



# Chemicals

2020



**CARLO ERBA**  
REAGENTS

*CARLO ERBA Reagents has been a part of the DASIT Group since July 2013 and more than ever I am pleased and honored to lead a multinational Team that combines the virtuosity of its pharmacist founder with more than one century tradition of excellence, and the spirit of service typical of our Group.*

*CARLO ERBA Reagents is driven by passion, an entrepreneurial spirit, eagerness to innovate and, above all, the desire to consistently connect with and serve our Customers.*

*The 2020 edition of the CARLO ERBA Reagents catalog is a proof of how the pride of the past can be combined with the foresight for the future.*

*Special thanks to you, dear Customers, who continue to demonstrate your loyalty and affection in Europe and around the world.*

Angelo Fracassi, President of DASIT Group





DASITGROUP

**CARLO ERBA**

REAGENTS



## ITALIA

### CARLO ERBA Reagents S.r.l.

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## FRANCE

### CARLO ERBA Reagents SAS

Chaussée du Vexin,  
Parc d'affaire des Portes  
27106 Val de Reuil

#### Service Client

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## DEUTSCHLAND

### CARLO ERBA Reagents GmbH

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#### Kundendienst

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## ESPAÑA

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Planta Puerta 5  
08208 Sabadell (BCN)

#### Servicio Cliente

serviciocliente@cer.dgroup.it

Tel.: +34 93 693 37 35

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## ALL OTHER COUNTRIES

### Customer Service

export@cer.dgroup.it

Ph.: +33 2 32 09 20 00

Fax: +33 2 32 59 11 89



## [www.carloerbareagents.com](http://www.carloerbareagents.com)

- Online catalogue (search by CAS, product name, product code) with updated specifications;
- Updated MSDS in multi-language and certificates of analysis available to download;
- Catalogues and brochures available to download;
- Contacts for technical information and requests for quotations.

### Ask us for an e-commerce account:

- For a full management of your online order, with automatic data transfer in our database;
- To check our stock availability in real time;
- To check your quotations, orders, delivery notes and invoices online;
- To view our price list, your specific commercial conditions and all our promotional activities.



CARLO ERBA Reagents ensures for its customers both quality and service thanks to its flexible production plants, its modern quality control laboratories and its efficient logistics organization.

Our 2 production sites in Val de Reuil and Peypin manufacture:

- Solvents, salts, organic and inorganic molecules, mixtures
- From technical to ultrapure grade
- From raw material to pharma excipient grade following the IPEC 2015 guidelines evaluated and authorized by French Ministry of Health (ANSM Agency), decret n°2011/62/UE

To meet your needs, our production tools include:

- Fully automated lines
- Distillation columns
- Purification columns
- Mixer
- Grinder
- Packaging under inert atmosphere
- Storage tanks
- ISO 8 Clean rooms

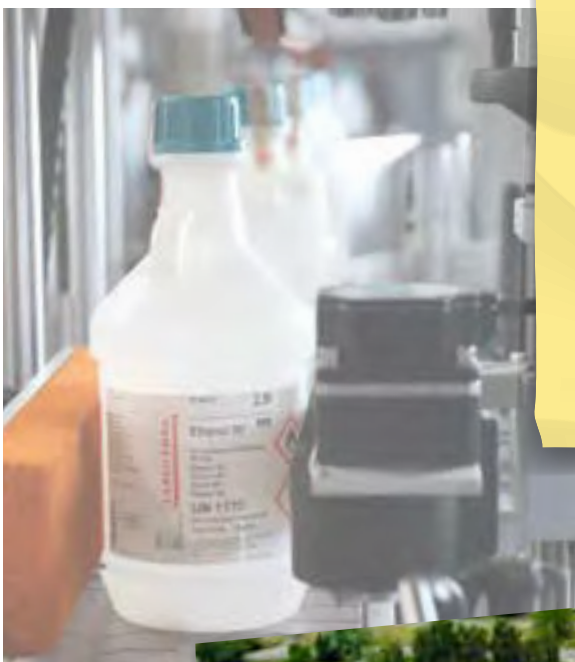




**CARLO ERBA Reagents is the “partner in your choice” for your specific needs.**

Customization can be proposed under request. Our expertise allows us to give you the most suitable solution. Our experienced Quality, Production and Logistics Teams are providing you with:

- Specific purity
- Outsourcing services
- Safety stocks
- Custom mixtures
- Purifications
- Specific QC tests
- Certifications
- Custom packaging
- Shuttle service
- Deliveries in large volumes



CARLO ERBA Reagents products are classified according to their level of purity and suitable for being used in laboratory analysis or industrial preparations.

A color system assigned to each grade helps the customer to find the suitable product for his application.

It is under the customer responsibility to make sure the purchased product is suitable for his use and /or application. CARLO ERBA Reagents would not be guilty of any misuse or mishandling of any of its products, occurring potential damages or user hurts in case of inappropriate use.

## RS – Specific Grade Reagents

RS

High purity Solvents, Acids and Reagents specifically designed to be used in the following instrumental techniques:

- **Trace Analysis**  
Superpure Acids and Ultrapure Acids for sample mineralization,  
Standards Solutions for AAS, ICP-OES and ICP-MS for instrumental calibration  
Standards Solutions for Pesticides, PAHs, PCB analysis
- **Liquid Chromatography**  
High Purity Solvents suitable for UHPLC-MS, LC-MS, HPLC GOLD UltraGradient Grade, HPLC PLUS Gradient Grade, HPLC Isocratic Grade, HPLC Preparative,  
Ion Chromatography Standard Solutions,  
Ion Pair Chromatography Reagents,  
Silica Gel & Filter Aids available in different mesh sizes.
- **Gas Chromatography**  
High Purity Solvents suitable for GC-HEADSPACE, for GC-MS, for organic trace analysis (ATRASOL®) and for residue analysis (PESTIPUR®)
- **Spectroscopy UV-vis/IR**  
SPECTROSOL® Solvents
- **Organic Synthesis**  
Anhydrous Solvents  
Deuterated Solvents
- **Karl Fischer**  
KF Reagents (ERBAqua®) for volumetric & coulometric titration pyridine-free
- **Food Analysis:**  
Specific Reagents, Acids, Bases and Kjeldahl Catalysts specific for food matrix analysis
- **Histology, Hematology and Cytodiagnosis:**  
Fixatives, Solvents, Embedding Media, Staining Solutions, Dyes, Mounting Media and Immersion Media
- **Conductivity**  
Standard Solutions
- **Electronic Application**  
MOS, RSE and VLSI quality according to semiconductors production processes requirements
- **Physical Properties Standards**  
Density, Melting point, Osmolality, Brix, Viscosity & Colour

## RPE – Analytical Grade Reagents

RPE

Standard grade in the laboratory complying with ACS and/or ISO. Many products comply with various pharmacopoeias, including BP, EP and USP for analytical purposes

- **Solvents, Acids, Salts & Reagents**  
A wide range of products guaranteed for analytical purposes
- **Volumetry**  
Titrated Solutions ready-to-use or concentrated in NORMEX vials
- **pHmetry**  
pH Buffer Solutions with and without color, available in different sizes and packaging
- **Indicators**  
Pure Substances and ready to use indicating solutions all provided with their color index

## RE – Technical Grade Reagents

RE

Purified commercial products used in many chemicals laboratories and industries

- **Acids, Bases, Solvents, Salts, Organic and Inorganic substances**  
Provided with guaranteed purity for the basic applications in the industry and laboratory
- **Green Solvents**
- **Solvents for Octane Number Determination**

## Xcipharm™ – Excipient Grade Products

Xcipharm™

Excipients used in the formulation of pharmaceutical products. Manufactured under IPEC guide 2015

- **Acids, Bases, Solvents, Salts, Organic and Inorganic substances, mixtures and dilutions**  
According to the main Pharmacopoeias: EP, USP, NF, JP, BP, DAB, FU, FP, to be used as Excipients in drug manufacturing.  
A range of more than 100 products with packaging from 1 mL to 30.000 L for liquids and from 100 g to 1 Ton for solids.

## ERBApharm® – Pharmaceutical grade Products

ERBApharm®

Raw materials for the pharmaceutical production, complying with the application: EP, USP, NF, JP, BP, DAB, FU, FP.

- **Acids, Bases, Solvents, Salts, Organic and Inorganic substances**  
According to the main Pharmacopoeias: EP, USP, NF, JP, BP, DAB, FU, FP or prepared with raw materials according to them, to be used as raw materials, synthetic intermediates, buffering agents, solvents in the production of active ingredients, and not as excipients.  
A range of more than 500 products with packaging from 1 L to 30.000 L for liquids and from 100 g to 1 Ton for solids.



**Xcipharm™** is the new product range dedicated to excipients. We manufacture these products according to the IPEC guidelines, assuring a high level of quality for your excipients.

We can adapt our offer to your needs with packaging sizes starting at 1 L up to bulk quantity.

We provide all of the tests, certifications and statements to make the registration of your products easier to the health authorities.

## QUALITY ASSURANCE

- French Ministry of Health (ANSM Agency) registration
- Traceability of raw material and packaging
- Flow chart
- Change control

## PROCESS

- Validated cleaning procedures and dedicated equipment
- Labels consolidation
- Certificate of analysis with the name of the producer and the date of production of the raw material
- Stability studies
- Sample library of the raw material (1 year) and of the finished product (shelf life + 1 year)

## DOCUMENTATION

- BSE/TSE statement
- OGM statement
- Residual solvents statement
- ICH Q3D
- Risk assessment (2015/C95/02)



**Product list (non exhaustive) of excipients. Custom mixtures and dilution are also available**

- Acetic acid glacial
- Acetone
- Benzoic acid
- Benzyl alcohol
- Calcium chloride 2H<sub>2</sub>O
- Citric acid
- Dietanolamine
- Diethyl ether
- Diethyl phthalate
- D(+)-glucose
- EDTA
- Ethanol
- Ethyl acetate
- Glycerine
- Glycine
- Hydrochloric acid
- L(+) Lactic acid
- Lactose
- Magnesium chloride 6H<sub>2</sub>O
- Magnesium stearate
- Magnesium sulfate 7H<sub>2</sub>O
- D-Mannitol
- Paraffin oil
- 2-Phenylethanol
- Phosphoric acid
- Potassium chloride
- Potassium hydroxide
- Potassium permanganate
- Potassium Phosphate Monobasic
- Propanol-2
- Propylene glycol
- Ricin oil/Castor oil
- Saccharose
- Sodium acetate trihydrate
- Sodium alginate
- Sodium bicarbonate
- Sodium carbonate
- Sodium chloride
- Sodium citrate dibasic
- Sodium citrate tribasic
- Sodium hydroxide
- Sodium metabisulfite
- Sodium phosphate dibasic
- Sodium sulfite
- Sodium thiosulfate 5H<sub>2</sub>O
- Stearic acid
- Sulfuric acid
- Tannic acid
- Tartaric acid
- Titanium dioxide
- Triethanolamine

*Do not hesitate to contact us if your product is not in the list.*

**iPEC**  
EUROPE



CARLO ERBA Reagents is ISO 9001:2015 certified.

Our quality system is based on risk management in each step, from the selection of raw material to the finished product. Each plant includes a QC lab with experienced chemists controlling raw materials, semi-finished and finished products.





**CARLO ERBA Reagents** has defined in this catalogue different grades for its products: RE, RPE, RS, ERBApharm®, Xcipharm™, Tailor made. All products have defined documentation depending on their grade in order to answer customers requirements.

Document	RE	RPE	RS	ERBApharm®	Xcipharm™	Tailor made
Certificate of Analysis	Yes	Yes	Yes	Yes	Yes	Yes
Material Safety Data Sheet	Yes	Yes	Yes	Yes	Yes	Yes
Self-questionnaire	Standard	Standard	Standard	ERBApharm®	Xcipharm™	Depending on the quality defined in the Quality Agreement
BSE/TSE	-	-	-	Yes if available	Yes	Depending on the quality defined in the Quality Agreement
Residual Solvents	-	-	-	Yes if available	Yes	Depending on the quality defined in the Quality Agreement
OGM	-	-	-	Yes if available	Yes	Depending on the quality defined in the Quality Agreement
Supply Chain and Risk Assessment (including Flow Chart, ICHQ3D, endotoxins, allergens, latex, melamine, phthalates, glucose and lactose...)	-	-	-	-	Yes	Depending on the quality defined in the Quality Agreement
Non-Disclosure Agreement	-	-	-	-	Yes	Depending on the quality defined in the Quality Agreement

*These documents do not exonerate the customer of his responsibility to check that the product supplied by CARLO ERBA Reagents is suitable for his use.*



# CERTIFICATES OF ANALYSIS

Certificates of Analysis for CARLO ERBA Reagents products are available at [www.carloerbareagents.com](http://www.carloerbareagents.com) by entering the lot number and the product code printed on the label.

The expiration date for each batch is printed on the label and the certificate of analysis. This information applies to products stored in their original, unopened packaging, away from heat and light, as specified in the safety data sheet.

Carlo Erba Reagents S.A.S.  
 Parc d'Activités des Portes  
 Chaussée du Vexin - BP 616  
 27106 Val de Reuil Cedex  
 Tél. : 02.32.09.20.00  
 Fax 02.32.09.20.20

2,1 DE VALDONNE - BP 4  
 13124 PEPPIH  
 Tél. : 04.42.32.41.41  
 Fax 04.42.72.41.62

Carlo Erba Reagents S.r.l.  
 Via R. Merendi, 22  
 20030 Cornaredo (MI)  
 Tel. 02 93 991 90 Fax 02 93 991 001

ISO 9001: 2008

## Certificate of Analysis

**1** **PRODUCT** : Sodium chloride ERBapharm-According to pharmacopoeia:  
 Ph.Eur.-FU-Ph.Franc.-BP-DAB-USP-JP

**2** **CODE** : 368253

**3** **LOT N°** : V0A589090A **METHOD** : 6572

**4** **EXPIRING DATE** : 2023/01 **EDITION** : 6

TEST	U.M.	SPECIFICATION	RESULT
Description	-	White crystalline powder	Conform
Identification	-	Positive	Positive
Appearance of solution	Ph.Eur.	Conform	Conform
Acidity or alkalinity	Ph.Eur.	Conform	Conform
Residue solvents	USP	Conform	Conform
Barium	Ph.Eur.	Conform	Conform
Iodide	Ph.Eur.	Conform	Conform
Ferrocyanide	Ph.Eur.	Conform	Conform
Nitrite	Ph.Eur.	Conform	Conform
Loss on drying	%	<= 0,5	0,04
Mg,alkal.earth met.(Ca)	ppm	<= 100	<100
Bromide	ppm	<= 100	<100
	ppm	<= 25	<25
	ppm	<= 3	<3
	ppm	<= 200	<200
	ppm	<= 0,2	<0,2
	ppm	<= 1	<1
	ppm	<= 2	<2
	ppm	<= 500	<500
	% s.s.	99,0 ÷ 100,5	100,3

**1** PRODUCT

**2** CODE

**3** LOT NUMBER

**4** EXPIRATION DATE

**5** CODE OF THE METHOD USED FOR THE PRODUCT QUALIFICATION

**6** CERTIFICATE EDITION NUMBER WHICH CHANGES WHEN GUARANTEED SPECIFICATIONS ARE UPDATED

**7** DESCRIPTION OF THE QUALITY CONTROL TESTS THE PRODUCT UNDERGOES

**8** UNIT OF MEASURE

**9** GUARANTEED PRODUCT SPECIFICATIONS

**10** TEST RESULTS OBTAINED FOR THE SPECIFIC LOT, AND FOR EACH SINGLE TEST, IN COMPLIANCE WITH INTERNATIONAL STANDARDS, IF APPLICABLE

**11** APPROVAL DATE FOR TEST RESULTS

compliance with the current legislation, raw material for pharmaceutical uses included.

**11** Approve Date : 01/01/2020

Not signed electronically issued document  
**QUALITY CONTROL RESPONSIBLE**  
**B. COULANGE (VDR)**

GHS is an international system designed to harmonize the classification, labeling and packaging of chemicals, transposed into the Regulation No. 1272/2008 and known as CLP (Classification, Labeling and Packaging). Reg. CLP is, since June 1<sup>st</sup> 2015, the only legislation enforced in the EU for the classification and labeling of substances and mixtures and is periodically updated through "Adaptations to Technical Progress (ATP)".

All CARLO ERBA Reagents-branded substances and mixtures are in compliance with the current regulations.




- 1 PRODUCT NAME
- 2 PRODUCT CODE
- 3 SIZE
- 4 GRADE
- 5 APPLICATION
- 6 GHS HAZARD SYMBOLS
- 7 GHS REFERENCES OF WARNING AND PRECAUTIONARY
- 8 LOT NUMBER AND EXPIRATION DATE
- 9 INTERNATIONAL IDENTIFICATION
- 10 MAIN TECHNICAL SPECIFICATION
- 11 BARCODE TO READ PRODUCT CODE AND BATCH NUMBER

**CH3OH**  
EEC n°200-859-6  
CAS n° 67-56-1  
MW(g/mol) 32

Description Clear colourless liquid -  
Colour <= 5 APHA  
Identification (I.R.) Positive -  
Refractive index at 20° 1.3270 - 1.3300 -  
Residue on evaporation <= 1 ppm  
Acidity <= 0.0003 meq/g  
Alkalinity <= 0.00004 meq/g  
Assay (CPG) >= 99.99 %  
Water (K.F) <= 200 ppm  
Transmittance - -  
At 210 nm >= 40 %  
At 225 nm >= 70 %  
At 230 nm >= 80 %  
>= 200 nm >= 99 %  
Fluorescence (quinine) - -  
At 254 nm <= 1 ppb  
At 365 nm <= 1 ppb  
UHPLC gradient peak - -  
At 220 nm <= 4 mAU  
At 235 nm <= 2 mAU  
At 254 nm <= 7 mAU  
Drift at 220 nm <= 30 mAU  
Drift at 235 nm <= 10 mAU  
Sensitive impurities (vesepine) <= 30 ppb  
Metals compounds - -

See the CoA for more information



**CARLO ERBA**  
REAGENTS

414941

**Methanol** RS

for UHPLC-MS

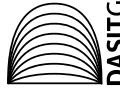
**Metanolo**  
**Méthanol**  
**Metanol**  
**Methanol**

**UN 1230**




Batch Number **VOA402100A**  
Expiry Date **2022/01**

**CARLO ERBA** Reagents S.A.S.  
BP 616-F-27106 Val de Reuil Cedex  
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**DASITGROUP**



11

**DANGER**  
H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. H370 Causes damage to organs. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P241 Use explosion-proof electrical/ventilating/lighting/... equipment. P264 Wash thoroughly after handling. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P403+P235 Store in a well-ventilated place. Keep cool.

**PERICOLO**  
H225 Liquido e vapori facilmente infiammabili. H301 Tossico se ingerito. H311 Tossico per contatto con la pelle. H331 Tossico se inalato. H370 Provoca danni agli organi. P210 Tenere lontano da fonti di calore/scintille/fiamme /superficie riscaldate - Non fumare. P241 Utilizzare impianti elettrici/di ventilazione/di illuminazione a prova di esplosione. P264 Lavare accuratamente dopo l'uso. P303+P361+P353 IN CASO DI CONTATTO CON LA PELLE (o con i capelli): togliersi di dosso immediatamente tutti gli indumenti contaminati. Sciagurare la pelle/fare una doccia. P304+P340 IN CASO DI INALAZIONE: trasportare l'infortunato all'aria aperta e mantenerlo a riposo in posizione che favorisca la respirazione. P403+P235 Conservare in luogo fresco e ben ventilato.

**DANGER**  
H225 Liquido e vapours très inflammables. H301 Toxique en cas d'ingestion. H311 Toxique par contact cutané. H331 Toxique par inhalation. H370 Risque avéré d'effets graves pour les organes. P210 Tenir à l'écart de la chaleur/des étincelles/des flammes nues/des surfaces chaudes. - Ne pas fumer. P241 Utiliser du matériel électrique/de ventilation/d'éclairage/... antidéflagrant. P264 Se laver soigneusement après manipulation. P303+P361+P353 EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): enlever immédiatement les vêtements contaminés. Rincer la peau à l'eau/se doucher. P304+P340 EN CAS D'INHALATION: transporter la victime à l'extérieur et la maintenir au repos dans une position où elle peut respirer confortablement. P403+P235 Stocker dans un endroit bien ventilé. Tenir au frais.

**PELIGRO**  
H225 Líquido y vapores muy inflamables. H301 Tóxico en caso de ingestión. H311 Tóxico en contacto con la piel. H331 Tóxico en caso de inhalación. H370 Provoca daños en los órganos. P210 Manténgase alejado de fuentes de calor, chispas, llama abierta o superficies calientes. - No fumar. P241 Emplear material eléctrico, de ventilación o de iluminación /... antideflagrante. P264 Lavarse concienzudamente tras la manipulación. P303+P361+P353 EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente las prendas contaminadas. Acértese la piel con agua o duchese. P304+P340 EN CASO DE INHALACIÓN: Transportar a la persona al exterior y mantenerla en reposo en una posición confortable para respirar. P403+P235 Almacenar en un lugar bien ventilado. Manténgase al fresco.

**GEFAHR**  
H225 Flüssigkeit und Dampf leicht entzündbar. H301 Giftig bei Verschlucken. H311 Giftig bei Hautkontakt. H331 Giftig bei Einatmen. H370 Schädigt die Organe. P210 Von Hitze/Funken/offener Flamme/heißen Oberflächen fernhalten. Nicht rauchen. P241 Explosionsgeschützte elektrische Anlagen/Lüftungsanlagen/ Beleuchtungsanlagen... verwenden. P264 Nach Handhabung gründlich waschen. P303+P361+P353 BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit reichlich Wasser und Seife waschen. P304+P340 BEI ENATMEN: An die frische Luft bringen und in einer Position ruhigstellen, die das Atmen erleichtert. P403+P235 An einem gut belüfteten Ort lagern. Kühl halten.





# SAFETY - CLP Classification

Download our CLP poster on [www.carloerbareagents.com](http://www.carloerbareagents.com)

## CLP Classification, Labeling and Packaging (The European GHS)

### PHYSICAL HAZARDS

HAZARD CLASS AND CATEGORY	HAZARD CLASS AND CATEGORY
Explosives - Unstable explosives - Explosives, divisions 1.1 to 1.3 Self-reactive substances, mixtures, types A, B Organic peroxides, types A, B	Explosives, division 1.4
Flammable gases, category 1	Flammable gases, category 2
Chemically unstable gases, categories A, B	Aerosols, category 1
Aerosols, category 2	Aerosols, category 2
Flammable liquids, category 1	Flammable liquids, category 2
Flammable liquids, category 3	Flammable solids, category 1
Flammable solids, category 2	Pyrophoric liquids, category 1
Pyrophoric solids, category 1	Substances, mixtures which in contact with water emit flammable gases, categories 1, 2 and category 3
Self-reactive substances, mixtures, type B	Self-reactive substances, mixtures, types C, D and types E, F
Self-heating substances, mixtures, category 1 and category 2	Organic peroxides, type B
Organic peroxides, types C, D	Organic peroxides, types E, F
Oxidizing gases, category 1	Oxidizing liquids, categories 1, 2 and category 3
Oxidizing solids, categories 1, 2 and category 3	Oxidizing solids, categories 1, 2 and category 3
Gases under pressure - Compressed gases - Dissolved gases - Refrigerated liquefied gases - Dissolved solids	Corrosive to metals, category 1

### HEALTH HAZARDS

HAZARD CLASS AND CATEGORY	HAZARD CLASS AND CATEGORY
Acute toxicity, categories 1, 2 - Oral - Dermal - Inhalation	Acute toxicity, category 3 - Oral - Dermal - Inhalation
Genotoxicity, categories 1A, 1B	Genotoxicity, categories 2A, 2B
Reproductive toxicity, categories 1A, 1B	STOT*, single exposure, category 1
STOT*, repeated exposure, category 1	Respiratory sensitization, categories 1, 2A, 2B
Aspiration hazard, category 1	Genotoxicity, category 2
Genotoxicity, category 2	Reproductive toxicity, category 2
STOT*, single exposure, category 2	STOT*, repeated exposure, category 2
Acute toxicity, categories 4 - Oral - Dermal - Inhalation	Skin corrosion, categories 1A, 1B, 1C
Skin corrosion, categories 2A, 2B, 2C	Serious eye damage, category 1
Skin irritation, category 2	Eye irritation, category 2
Eye irritation, category 2	Skin sensitization, categories 1, 2A, 2B
STOT*, single exposure, category 3 - Respiratory tract irritation - Narcotic effects	STOT* (Specific Target Organ Toxicity)

### ENVIRONMENTAL HAZARDS

HAZARD CLASS AND CATEGORY	HAZARD CLASS AND CATEGORY
Hazardous to the aquatic environment, acute, category 1	Hazardous to the aquatic environment, chronic, category 1
Hazardous to the aquatic environment, chronic, category 1	Hazardous to the aquatic environment, chronic, category 2
Hazardous to the aquatic environment, chronic, category 2	Hazardous to the aquatic environment, chronic, category 3, 4
Hazardous to the ozone layer, category 1	

### EXAMPLE OF LABEL

**HAZARD STATEMENTS**

**PICTOGRAMS**

**www.carloerbareagents.com**

**DASITGROUP CARLO ERBA**

**PRODUCT NAME** → **ACE**

**TRANSPORT CLASSIFICATION** → **Acetone**

**INTERNATIONAL CLASSIFICATION** → **Acetone**

**APPLICATION** → **Acetone > RS - For HPLC - Isocratic Grade**

**PRODUCT CODE** → **412501**

**UNIT SIZE** → **1 l**

**PACKAGING** → **Glass bottle**

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**Acetone**  
 • Acetone • Acétone • Acetona • Aceton

**Classification transport**  
 ONU: 1090  
 Transport Hazard class: 3  
 Packing group II

**CH<sub>3</sub>COCH<sub>3</sub>**  
 Molecular Weight: 58,01  
 CAS: 67-64-1  
 EEC-N: 200-662-2

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**Acetone > RS - For HPLC - Isocratic Grade**

Description .....	Clear colourless liquid	Boiling point.....	55.8 ÷ 56.3
Identification .....	Positive	Water (K.F.).....	≤ 500
Density at 20° C .....	0.790 ÷ 0.792	Residue on evaporation .....	≤ 5
Refractive index at 20°C.....	1.3581 ÷ 1.3601	Acidity .....	≤ 0.0005 me

Code	Size	Packaging
412501	1 l	Glass bottle
412502	2.5 l	Glass bottle

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**Acetone > RS - For GC-MS**

Appearance .....	Clear colourless liquid	Residue on evaporation .....	≤ 2 pp
Refractive index at 20°C.....	1.357 - 1.361	Acidity (acetic acid).....	≤ 20 pp
Water (K.F.).....	≤ 500 ppm	Assay (GC).....	≥ 99.95
Colour .....	≤ 10 APHA	Ethyl alcohol .....	≤ 100 pp

Code	Size	Packaging
400952	1 l	Glass bottle

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**Acetone > RS - ATRASOL - For traces analysis**

Appearance .....	Clear colourless liquid	Free acid (as CH <sub>3</sub> COOH).....	≤ 20
Refractive index at 20°C.....	1.357 - 1.361	.....	≥ 9



**DANGER CLASSIFICATION**      **SYNONYM**

Synonym:  
*2-Propanone*

  **Danger**  
H225-H319-H336-HEU066  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233

		RS		GRADE
° C	Alcalinity.....	≤0.0002 meq/g	at 340 nm .....	≥ 85 %
ppm	Assay (GLC) .....	≥99.9 %	At 345 nm .....	≥ 90 %
ppm	U.V. Transmittance		at 350 nm .....	≥ 98 %
mg/g	At 335 nm .....	≥ 60 %	at 360 nm .....	≥ 99 %
<b>Notes</b>				
		RS		SPECIFICATIONS
mm	Methyl alcohol.....	≤ 500 ppm	Ret.range n-undecane to n-tetracontane	
mm	Isopropyl alcohol .....	≤ 500 ppm		
%	GC-MS.Individual peak (n-hexadecane).	≤ 2		
µg/L				
<b>Notes</b>				
		RS		
mg/Kg	2-Propanone.....	≤ 500 mg/Kg	Ret.range 1,2,4-trichlorobenzene	
99.9 %	Assay (GC) .....	≥ 99.9 %	Ret.range 1,2,4-trichlorobenzene to decachlorobiphenyl	

Chemical specifications are subject to change.

Please see the updated specifications on [www.carloerbareagents.com](http://www.carloerbareagents.com)

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# APPLICATIONS



LIQUID CHROMATOGRAPHY  
GAS CHROMATOGRAPHY  
ION PAIR CHROMATOGRAPHY  
ION CHROMATOGRAPHY  
TRACE ANALYSIS: METALS  
TRACE ANALYSIS: ORGANICS  
COD ANALYSIS  
PHARMACEUTICAL PRODUCTION  
PHARMACEUTICAL QUALITY CONTROL  
PHYSICALS AND CHEMICAL CHARACTERISTICS  
pHMETRY  
VOLUMETRY  
FOOD ANALYSIS  
ELECTRONICS  
HISTOLOGY, HEMATOLOGY AND CYTODIAGNOSTIC  
ORGANIC CHEMISTRY  
NMR SPECTROSCOPY  
UV SPECTROSCOPY  
GREEN CHEMISTRY  
PETROCHEMICAL ANALYSIS  
KARL FISCHER TITRATION  
INDICATORS  
CONDUCTIMETRY

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CARLO ERBA Reagents thanks to its experience and production flexibility manufacture tailor made products for industry and laboratories.



- Custom mixture
- Purification
- Custom packaging
- Deliveries in bulk tanks and isotanks
- Shuttle service
- Analytical control
- Batch management
- Quality assurance

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**LIQUID CHROMATOGRAPHY**

Leader in the market of solvents for chromatography and trace analysis, CARLO ERBA Reagents extended its range of solvents for HPLC in order to satisfy the ever increasing demand requirements in terms of equipment and detection methods, particularly for impurities which, by interaction, can affect the result's reliability.

Our solvents for HPLC meet perfectly the requirements of this analytical technique by guaranteeing the optimal specifications on the following elements: purity, non-volatile residue content and UV transmission.

**UHPLC-MS Solvents**

The UHPLC-MS is certainly the chromatographic technique for users who, besides being on the lookout for the best analytical performances, works at very high pressure, with minimum solvent consumption and guarantee of resolution and reproducibility of results. CARLO ERBA Reagents, recognized as a leading company in the manufacture of solvents for chromatography, is always attuned to the market needs and has developed a specific range of solvents dedicated to solvents for UHPLC-MS in order to meet the quality requirements of this refined analytical technique.

Our solvents are characterized by:

- Purity higher than 99.95 %
- High UV transmittance
- Excellent baseline quality in gradient, tested specifically for UHPLC
- Test with reserpine (30 < ppb), specific for LCMS
- Low content in inorganic and metallic ions
- Non volatile residue content less than 1 ppm
- Packaged in amber glass bottles pretreated with 1.1-difluoroethane to significantly reduce the potential formation of metals adduct

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412041	142
Acetonitrile		2.5 l	412042	142
Methanol		1 l	414941	488
Methanol		2.5 l	414942	488
Water		1 l	412091	786
Water		2.5 l	412092	786

**LC-MS Solvents**

Liquid chromatography coupled with mass spectrometry is a recently developed technique which is suitable for the analysis of fairly polar, non-volatile and thermally stable compounds. It allows the separation and characterization of many more compounds than GC-MS chromatography and also provides information on the molecular weight and structure of the HPLC peaks. The significant advantages of this combined technique has led to its widespread use in many analytical fields, particularly in the pharmaceutical, environmental and biotechnological sectors.

CARLO ERBA Reagents guarantees specifications of a high-performance LC-MS solvents:

- High purity, low acidity, alkalinity and residue, ideal fluorescence, absorbance/transmittance and gradient test
- Low metal content, in the order of ppb, in order to prevent interactions with ionized species in the mass analyzer
- LC-MS suitability: no signal is greater than the molecular peak of reserpine (609 amu) at the concentration of 30 ppb, in a range from 50 to 2000 amu
- Packaged in amber glass bottles pretreated with 1.1-difluoroethane to reduce significantly the potential formation of metals adduct

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412341	142
Acetonitrile		2.5 l	412342	142
Ethyl acetate		1 l	448383	340
Ethyl acetate		2.5 l	448384	340
Methanol		1 l	414831	488
Methanol		2.5 l	414832	488
Propan-2-ol		1 l	415183	623
Propan-2-ol		2.5 l	415184	623
Water		1 l	412111	786
Water		2.5 l	412112	786

## LC-MS Acids, Salts and Blends

CARLO ERBA Reagents proposes a wide range of acids and salts, specifically tested for LC-MS coupling, in addition to ready-to-use blends solutions for mobile phases.

Description	Notes	Size	Code	Page
Acetic acid glacial		10 x 1 ml	401411	130
Acetic acid glacial		10 x 2.5 ml	401412	130
Acetic acid glacial		50 ml	401413	130
Acetic acid glacial		1 l	401414	130
Acetonitrile + 0.1% v/v formic acid		1 l	412331	145
Acetonitrile + 0.1% v/v formic acid		2.5 l	412332	145
Acetonitrile + 0.1% v/v trifluoroacetic acid		1 l	412321	145
Acetonitrile + 0.1% v/v trifluoroacetic acid		2.5 l	412322	145
Ammonium acetate		50 g	418781	166
Ammonium formate		50 g	419741	171
Formic acid 99%		10 x 1 ml	405821	362
Formic acid 99%		10 x 2.5 ml	405822	362
Formic acid 99%		50 ml	405823	362
Formic acid 99%		1 l	405824	362
Methanol + 0.1% v/v formic acid		1 l	414861	492
Methanol + 0.1% v/v formic acid		2.5 l	414862	492
Methanol + 0.1% v/v trifluoroacetic acid		1 l	414871	493
Methanol + 0.1% v/v trifluoroacetic acid		2.5 l	414872	493
Trifluoroacetic acid		10 x 1 ml	411541	773
Trifluoroacetic acid		10 x 2.5 ml	411542	773
Trifluoroacetic acid		50 ml	411543	773
Water + 0.1% v/v formic acid		1 l	412121	789
Water + 0.1% v/v formic acid		2.5 l	412122	789
Water + 0.1% v/v trifluoroacetic acid		1 l	412031	789

## HPLC Ultragradient Grade Solvents

The gradient control of elution and drift at critical wavelengths of our HPLC solvents, Gold UltraGradient and Plus Gradient Grade, guarantee a peak free baseline. Their optimal sensitivity allows you to evaluate in the best possible way the impurities of your samples. To make sure that no particles in the mobile phase will hinder your analyses, we carry out a microfiltration of our GOLD solvents.

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412371000	142
Acetonitrile		2.5 l	412372000	142
Acetonitrile		4 l	412374	142
Methanol		1 l	412721	488
Methanol		2.5 l	412722	488
Methanol		4 l	412724	488
Methanol		5 l	412725	488

## HPLC Gradient Grade Solvents

The solvents of this product line guarantee excellent short-wavelength performance and limited drift, which makes them ideal for gradient and trace analysis.

To make sure that no particle in the mobile phase will hinder your analyses, we carry out a microfiltration of our HPLC gradient plus.

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412393	142
Acetonitrile		1 l	412391000	142

Acetonitrile		2.5 l	412392000	142
Acetonitrile		5 l	412395	142
Ethanol absolute anhydrous		500 ml	412704	331
Ethanol absolute anhydrous	Only for Italian market	1 l	412701	331
Ethanol absolute anhydrous	Only for Italian market	1 l	412703	331
Ethanol absolute anhydrous		1 l	4127012	331
Ethanol absolute anhydrous		1 l	4127032	331
Ethanol absolute anhydrous	Only for Italian market	2.5 l	412702	331
Ethanol absolute anhydrous		2.5 l	4127022	331
Methanol		1 l	412381	488
Methanol		2.5 l	412383	488
Propan-2-ol		1 l	412711000	623
Propan-2-ol		2.5 l	412712000	623
Water		1 l	412141	786
Water		2.5 l	412142	786

## HPLC Isocratic Grade Solvents

These products, due to their high purity and strictly controlled chemical-physical parameters, adequately meet the needs of modern analytical HPLC.

Available in glass bottles (1l and 2.5l) or stainless steel shuttle drums (5 to 1000l), their characteristics satisfy the requirements of the most advanced HPLC techniques.

Description	Notes	Size	Code	Page
Acetic acid glacial		1 l	401431	130
Acetic acid glacial		2.5 l	401432	130
Acetone		1 l	412501	138
Acetone		2.5 l	412502	138
Acetonitrile		1 l	412411000	143
Acetonitrile		2.5 l	412412000	143
Acetonitrile		4 l	412413000	143
Butanol-1		1 l	412511000	226
Butanol-1		2.5 l	412512000	226
n-Butyl chloride		1 l	431821	229
tert-Butylmethylether		1 l	432031	230
tert-Butylmethylether		2.5 l	432032	230
tert-Butylmethylether		4 l	432034	230
Chloroform, stab. with Amylene		1 l	412571	259
Chloroform, stab. with Amylene		2.5 l	412572	259
Chloroform, stab. with Ethanol		1 l	412652	259
Chloroform, stab. with Ethanol		2.5 l	412653	259
Cyclohexane		1 l	412431000	286
Cyclohexane		2.5 l	412432000	286
1,2-Dichloroethane		1 l	447191	299
1,2-Dichloroethane		2.5 l	447192	299
Dichloromethane, stab. with Amylene		1 l	412621000	300
Dichloromethane, stab. with Amylene		2.5 l	412622000	300
Dichloromethane, stab. with Ethanol		1 l	412662	300
Dichloromethane, stab. with Ethanol		2.5 l	412661	300
Diethyl ether		1 l	412671	308
Diethyl ether		2.5 l	412672	308
N,N-Dimethylformamide		1 l	444981	314

N,N-Dimethylformamide		2.5 l	444982	314
Dimethylsulphoxide		1 l	445141	317
Dimethylsulphoxide		2.5 l	445142	317
1,4-Dioxane		1 l	443231	321
Ethanol absolute anhydrous	Only for Italian market	1 l	412521	331
Ethanol absolute anhydrous		1 l	4125212	331
Ethanol absolute anhydrous	Only for Italian market	2.5 l	412522	331
Ethanol absolute anhydrous		2.5 l	4125222	331
Ethanol 96°	Only for Italian market	1 l	414541	334
Ethanol 96°		1 l	4145412	334
Ethanol 96°	Only for Italian market	2.5 l	414542	334
Ethanol 96°		2.5 l	4145422	334
Ethyl acetate		1 l	412611000	340
Ethyl acetate		2.5 l	412612000	340
n-Heptane 99%		1 l	412591000	380
n-Heptane 99%		2.5 l	412592000	380
n-Heptane		1 l	446831	382
n-Heptane		2.5 l	446832	382
n-Hexane 99%		1 l	412691	385
n-Hexane 99%		2.5 l	412692	385
n-Hexane		1 l	412601000	386
n-Hexane		2.5 l	412602000	386
Hexane mixture of isomers		1 l	412632	388
Hexane mixture of isomers		2.5 l	412631	388
Isohexane		1 l	445152	438
Isohexane		2.5 l	445151	438
Isooctane		1 l	412441000	439
Isooctane		2.5 l	412442000	439
Methanol		1 l	412531	489
Methanol		1 l	412533	489
Methanol		2.5 l	412532	489
Methanol		2.5 l	412535	489
Methyl acetate		2.5 l	P0043721	495
2-Methyltetrahydrofuran		1 l	412681	505
2-Methyltetrahydrofuran		2.5 l	412682	505
n-Pentane		1 l	P0643716	558
n-Pentane		2.5 l	P0643721	558
Propan-1-ol		1 l	412541000	622
Propan-1-ol		2.5 l	412542000	622
Propan-2-ol		1 l	412821	623
Propan-2-ol		1 l	412421000	624
Propan-2-ol		2.5 l	412422000	624
Tetrahydrofuran		1 l	412451000	751
Tetrahydrofuran		1 l	412453000	751
Tetrahydrofuran		2.5 l	412452000	751
Tetrahydrofuran, stab. with BHT		1 l	412471	751
Tetrahydrofuran, stab. with BHT		2.5 l	412472	751
Toluene		1 l	412641000	765
Toluene		2.5 l	412642000	765
Triethylamine		1 l	489631	772



Triethylamine		2.5 l	489633	772
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## HPLC Preparative Solvents

Our range of solvents for HPLC preparative have been designed to satisfy the requirements of separations and purifications. Their low non-volatile residue content (from 5 to 10 ppm maximum) allows to optimize the operation conditions and to make impurity-free preparations. All these solvents are available in 2.5 l bottles and in stainless steel shuttle drums from 5 to 1 000 l.

Description	Notes	Size	Code	Page
Acetonitrile		2.5 l	412409	143
tert-Butylmethylether		2.5 l	432022000	230
Chloroform		2.5 l	438641	260
Dichloromethane		2.5 l	463281	300
Dichloromethane		2.5 l	463291	300
Ethyl acetate		2.5 l	448211	341
Propan-2-ol		2.5 l	415112	624
Tetrahydrofuran		2.5 l	487352	752
Toluene		2.5 l	488531	766

## Silica Gel and Filter aids

Besides the widely used silica gel, other products with particular characteristics are also available and offer a series of valid alternatives for resolving numerous separation problems.

Description	Notes	Size	Code	Page
Aluminum oxide (acid)		250 g	417185	155
Aluminum oxide (acid)		1 kg	417182	155
Aluminum oxide (basic)		100 g	417214	155
Aluminum oxide (basic)		1 kg	417217	155
Aluminum oxide (neutral)		250 g	417245	156
Aluminum oxide (neutral)		1 kg	417241	156
Aluminum oxide activated		1 kg	312261	156
Calcium carbonate		250 g	433245	237
Cellulose, powder		250 g	436061	250
Charcoal activated		250 g	434455	255
Charcoal activated		1 kg	434454	255
Charcoal activated	Granular	1 kg	P4610017	255
Dicalite 4158		500 g	P8880014	297
Dicalite 4158		1 kg	P8880017	297
Dicalite 4158		5 kg	P8880027	297
Florisil 60-100 mesh		100 g	452331	356
Florisil 60-100 mesh		500 g	452333	356
Florisil 60-100 mesh		1 kg	452332	356
Florisil 60-100 mesh		100 g	452271	356
Florisil 60-100 mesh		500 g	452273	356
Florisil 100-200 mesh		100 g	452351	357
Florisil 100-200 mesh		500 g	452353	357
Kieselguhr composed		250 g	449895	449
Kieselguhr composed		1 kg	449897	449
Magnesium oxide		1 kg	459617	473
Sand purified		1 kg	477153	644
Silica gel 60A 6 - 35 $\mu$		1 kg	P2010017	648
Silica gel 60A 6 - 35 $\mu$		5 kg	P2010027	648
Silica gel 60A 6 - 35 $\mu$		25 kg	P2010044	648

Silica gel 60A 20 - 45 $\mu$	1 kg	P2200017	648
Silica gel 60A 20 - 45 $\mu$	5 kg	P2200027	648
Silica gel 60A 35 - 70 $\mu$	1 kg	P2000017	649
Silica gel 60A 35 - 70 $\mu$	2 kg	P2000026	649
Silica gel 60A 35 - 70 $\mu$	5 kg	P2000027	649
Silica gel 60A 35 - 70 $\mu$	25 kg	P2000044	649
Silica gel 60A 35 - 70 $\mu$	100 g	453351	649
Silica gel 60A 35 - 70 $\mu$	500 g	453352	649
Silica gel 60A 35 - 70 $\mu$	1 kg	453353	649
Silica gel 60A 35 - 70 $\mu$	5 kg	453355	649
Silica gel 60A 40 - 63 $\mu$	1 kg	P2050017	649
Silica gel 60A 40 - 63 $\mu$	5 kg	P2050027	649
Silica gel 60A 40 - 63 $\mu$	25 kg	P2050044	649
Silica gel 60A 70 - 200 $\mu$	1 kg	P2100017	650
Silica gel 60A 70 - 200 $\mu$	2 kg	P2100026	650
Silica gel 60A 70 - 200 $\mu$	5 kg	P2100027	650
Silica gel 60A 70 - 200 $\mu$	25 kg	P2100044	650
Silica gel 60A 0,06 $\pm$ 0,20 mm	500 g	453336	650
Silica gel 60A 0,06 $\pm$ 0,20 mm	1 kg	453337	650
Silica gel 60A 0,06 $\pm$ 0,20 mm	5 kg	453332	650
Silica gel 60A 0,06 $\pm$ 0,20 mm	20 kg	453331	650



## GAS CHROMATOGRAPHY

Broad spectrum chemical analysis of trace level components is a continuing challenge for any analytical chemist. This challenge is further confounded when chemical impurities may be present in common organic solvents or when chemical artifacts may be formed, produced and introduced during an analytical procedure. Minimizing and understanding these chemical artifacts is critical for trace level detection and is crucial for accurate analytical conclusions.

CARLO ERBA Reagents GC Solvents are the best choice for your complex mixture challenges.

### GC-MS Solvents

The recent technological advances of GC-MS, GC-MS/MS and 2D GC-MS have opened new analytical horizons, in terms of selectivity of the result, and allowed a reduction of detection limits, reducing the need for cleaning the sample and the introduction of faster methods for sample preparation.

The role and the choice of the quality of the solvent is consequently crucial for the production of a precise and accurate analytical data.

That is why we are introducing a new product range dedicated to the most demanding need for GC-MS. These products were specifically tested for GC/MS test for individual signals, with a retention range of C11 to C40 with a scanning area of 30-600 amu with a guarantee of less than 2µg/l of impurities.

The CARLO ERBA Reagents GC-MS solvents guarantee excellent performance, even for the analysis of the most complex mixtures.

Description	Notes	Size	Code	Page
Acetone		1 l	400952	138
Chloroform		1 l	438732	260
Dichloromethane		1 l	463332	301
Dichloromethane		1 l	463342	301
Ethyl acetate		1 l	448342	341
n-Hexane 99%		1 l	447212	385
Methanol		1 l	414952	489
n-Pentane 99%		1 l	468172	557
n-Pentane		1 l	468182	558

### Head Space Solvents

The operating principle of this technique is based on the chromatographic analysis of the vapor phase in thermodynamic equilibrium above the sample enclosed in a sealed container.

Analysis of residue solvents using GC Heaspace techniques, has become a major control procedure in pharmaceutical and food related industries. CARLO ERBA Reagents has recently developed solvents specifically tested for GC-HS applications. Their purity and handling specifications meet the requirements of the latest Pharmacopoeia guidelines for the residual solvent content in pharmaceutical products.

Description	Notes	Size	Code	Page
N,N-Dimethylacetamide		1 l	444311	313
N,N-Dimethylformamide		1 l	444991	315
Dimethylsulphoxide		1 l	445121	318
N-Methyl-2-pyrrolidone		1 l	462881	502
Water		1 l	412011	786

### PESTIPUR® Solvents for pesticides residue analysis

The control of pesticide residues in the food and environmental sectors is remarkably important today, as these substances represent a potential public health hazard.

The purity of the solvent is a determinant factor in obtaining reliable results. Thus it is essential to have products available with suitable parameters for this type of application.

To meet these needs, CARLO ERBA Reagents offers its PESTIPUR® line of solvents, specific for the extraction of pesticides and the analysis of chlorinated and nitrogenous residues, even at trace levels.

Our products are prepared according to the most advanced distillation techniques and strictly controlled in order to guarantee the highest level of quality.

Various functionality tests ensure a stable base line in gas chromatography.

For the entire PESTIPUR® line, the absence of critical impurities is ensured by means of precise functionality tests in GC-ECD and GC-NPD.

Description	Notes	Size	Code	Page
Acetone		1 l	400991	138
Acetone		2.5 l	400992000	138
Acetone		4 l	400994	138

Acetone	2.5 l	400932	138
Acetonitrile	1 l	401241	143
Acetonitrile	2.5 l	401242	143
Acetonitrile	4 l	401243	143
tert-Butylmethylether	1 l	432061	230
tert-Butylmethylether	2.5 l	432062	230
Chloroform, stab. with Amylene	1 l	438681	260
Chloroform, stab. with Amylene	2.5 l	438682	260
Chloroform, stab. with Ethanol	1 l	438651	260
Chloroform, stab. with Ethanol	2.5 l	438652	260
Cyclohexane	1 l	436931	286
Cyclohexane	2.5 l	436932	286
Dichloromethane, stab. with Amylene	1 l	442291	301
Dichloromethane, stab. with Amylene	2.5 l	442292000	301
Dichloromethane, stab. with Amylene	4 l	442294	301
Dichloromethane, stab. with Ethanol	1 l	442261	302
Dichloromethane, stab. with Ethanol	2.5 l	442262	302
Diethyl ether	1 l	447651	308
Diethyl ether	2.5 l	447652	308
N,N-Dimethylformamide	1 l	444941	315
N,N-Dimethylformamide	2.5 l	444942	315
Ethyl acetate	1 l	448351	341
Ethyl acetate	2.5 l	448352000	341
n-Heptane 99%	1 l	446951	380
n-Heptane 99%	2.5 l	446952	380
Heptane mixture of isomers	1 l	446841	382
Heptane mixture of isomers	2.5 l	446842	382
n-Hexane 99%	1 l	447111	385
n-Hexane 99%	2.5 l	447112000	385
n-Hexane	1 l	447011	386
n-Hexane	2.5 l	447012	386
n-Hexane	4 l	447013	386
Hexane mixture of isomers	1 l	447181	388
Hexane mixture of isomers	2.5 l	447182	388
Isohexane	1 l	447131	439
Isohexane	2.5 l	447132	439
Isooctane	1 l	456791	439
Isooctane	2.5 l	456792	439
Methanol	1 l	414930	489
Methanol	2.5 l	414932	489
n-Pentane	1 l	468161	558
n-Pentane	2.5 l	468162	558
Petroleum ether 40 - 65°C	1 l	447851	566
Petroleum ether 40 - 65°C	2.5 l	447852	566
Petroleum ether 35 - 60°C	1 l	447862	567
Petroleum ether 35 - 60°C	2.5 l	447861	567
Propan-2-ol	1 l	415281	624
Toluene	1 l	488591	766
Toluene	2.5 l	488592	766
Toluene	4 l	488594	766



## ATRASOL® Solvents for the detection of traces in organic compounds and hydrocarbons

Specific solvents for gas chromatographic analysis of trace pollutants.

High purity, guaranteed absence of extraneous peaks in gas chromatographic determinations and guarantee of reproducibility and repeatability of the result are the main feature of this line.

Furthermore, for all the ATRASOL® solvents, the absence of critical impurities is ensured by means of precise functionality tests in GC-ECD and GC-FID.

Description	Notes	Size	Code	Page
Acetone		1 l	P0053216	138
Acetone		2.5 l	P0053221	138
Acetone		4 l	P0053282	138
Chloroform		1 l	P02432E16	260
Chloroform		2.5 l	P02432E21	260
Dichloromethane, stab. with Amylene		1 l	P02932A16	301
Dichloromethane, stab. with Amylene		2.5 l	P02932A21	301
Dichloromethane, stab. with Amylene		4 l	P02932A82	301
Dichloromethane, stab. with Ethanol		1 l	P02932E16	301
Dichloromethane, stab. with Ethanol		2.5 l	P02932E21	301
N,N-Dimethylformamide		1 l	P0343216	315
N,N-Dimethylformamide		2.5 l	P0343221	315
Dimethylsulphoxide		1 l	P0353216	318
Dimethylsulphoxide		2.5 l	P0353221	318
Ethyl acetate		1 l	P0023216	341
Ethyl acetate		2.5 l	P0023221	341
n-Hexane 99%		1 l	P052323016	385
n-Hexane 99%		2.5 l	P052323021	385
Methanol		1 l	P0933216	489
Methanol		2.5 l	P0933221	489
n-Pentane 99%		1 l	P064323016	557
n-Pentane 99%		2.5 l	P064323021	557
Toluene		1 l	P0713216	766
Toluene		2.5 l	P0713221	766
Toluene		4 l	P0713282	766

## ATRASOL® Solvents for Hydrocarbon index determination according to EN ISO 9377-2

The European regulation UNI ISO 9377-2 "Determination of hydrocarbon oil index - Method using solvent extraction and gas chromatography", established the criteria for the evaluation of the hydrocarbon index in water using gas chromatography. This procedure is suitable for surface water, wastewater and water from sewage treatment plants.

CARLO ERBA Reagents offer suitable extraction solvents, with their boiling range between 56 and 69°C.

Each production lot is specifically analyzed so that the hydrocarbon index is less than or equal to 0.1 mg/l, in the retention time window between n-decane and n-tetracontane.

Description	Notes	Size	Code	Page
n-Hexane		1 l	P0523216	386
n-Hexane		2.5 l	P0523221	386
Isohexane		1 l	P6263216	438
Isohexane		2.5 l	P6263221	438
n-Pentane		1 l	P0643216	558
n-Pentane		2.5 l	P0643221	558
Petroleum ether 35 - 60°C		1 l	P0883216	567
Petroleum ether 35 - 60°C		2.5 l	P0883221	567



## ION PAIR CHROMATOGRAPHY

Ion Pair Chromatography was developed to allow the separation of complex mixtures of polar and ionic molecules, which often are not well separated by ion exchange chromatography. The selectivity is determined by the mobile phase: the organic eluent is supplemented with a specific ion-pairing reagent. The IPC reagents are large ionic molecules having a charge opposite to the targeted analyte, as well as a hydrophobic region to interact with the stationary phase. The counter-ion combines with the ions of the eluent, becoming ion pairs in the stationary phase. Ion pairs are then separated on Reverse-phase HPLC columns.

## Reagents for Ion Pair Chromatography

Derivatives can be used to solve common analytical problems related to ionic or polarized products in chromatography. The following reagents are additives for the mobile phase that allow the separation in reversed-phase HPLC of ionic or highly polar substances (counter-ion tetraalkylammonium for anionic electrolytes, alkyl or aryl sulfonate for cationic electrolytes).

Benefits of CARLO ERBA ion-pair reagents are:

- The purity of the mobile phase and therefore the accuracy of the results depend on the quality of the additive
- The specifications of our ion pair reagents are in line with the requirements of Reverse-phase HPLC: high purity  $\geq 99\%$ , minimum UV absorption in the far UV, controlled pH and minimum loss on drying

Description	Notes	Size	Code	Page
1-Butanesulfonic acid sodium salt		25 g	405631	225
1-Butanesulfonic acid sodium salt		100 g	405632	225
1-Decanesulfonic acid sodium salt		25 g	405871	290
1-Decanesulfonic acid sodium salt		100 g	405872	290
1-Dodecanesulfonic acid sodium salt		25 g	405881	324
1-Dodecanesulfonic acid sodium salt		100 g	405882	324
Dodecyltrimethylammonium bromide		25 g	405941	325
1-Heptanesulphonic acid sodium salt		25 g	405851	383
1-Heptanesulphonic acid sodium salt		100 g	405852	383
1-Hexanesulphonic acid sodium salt		25 g	405621	389
1-Hexanesulphonic acid sodium salt		100 g	405622	389
1-Hexanesulphonic acid sodium salt monohydrate		25 g	405921	389
1-Hexanesulphonic acid sodium salt monohydrate		100 g	405922	389
1-Octanesulphonic acid sodium salt		25 g	405861	537
1-Octanesulphonic acid sodium salt		100 g	405862	537
1-Octanesulphonic acid sodium salt		1 kg	405863	537
1-Octanesulfonic acid sodium salt monohydrate		25 g	405931	538
1-Octanesulfonic acid sodium salt monohydrate		100 g	405932	538
1-Pentanesulphonic acid sodium salt		25 g	405841	559
1-Pentanesulphonic acid sodium salt		100 g	405842	559
1-Pentanesulphonic acid sodium salt monohydrate		25 g	405891	560
1-Pentanesulphonic acid sodium salt monohydrate		100 g	405892	560
1-Propanesulfonic acid sodium salt		25 g	405901	627
1-Propanesulfonic acid sodium salt		100 g	405902	627
Tetrabutylammonium bisulfate		25 g	405971	748
Tetrabutylammonium bisulfate		100 g	405972	748

**ION CHROMATOGRAPHY**

Ion chromatography is a widely used technique that separates ions and polar molecules based on their affinity to the ion exchanger. It is often used in protein purification and water analysis. It works on almost any kind of charged molecule—including large proteins, small nucleotides, and amino acids.

**Standard Solutions for Ion Chromatography**

Our standard solutions for ion chromatography are obtained by dissolution of a high-purity salt (+99.9%) in water.

They are characterized by:

- Produced under a Quality Management System that is Accredited according to ISO/IEC 17025 and ISO 17034;
- Concentrations equal to 1000 ppm;
- Guaranteed titer with its uncertainty;
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials;
- Available in HDPE bottles;
- Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval;

Description	Notes	Size	Code	Page
Ammonium standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503311	165
Ammonium standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503313	165
Bromate standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503171	210
Bromate standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503173	210
Bromide standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503211	210
Bromide standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503213	210
Calcium standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503221	235
Calcium standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503223	235
Calcium standard solution	conc. 1.000 ppm Matrix: Water and nitric acid	500 ml	503389	235
Chlorate standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503181	257
Chlorate standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503183	257
Chloride standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503231	257
Chloride standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503233	257
Chlorite standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503191	257
Chlorite standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503193	257
Chromate standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503241	264
Chromate standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503243	264
Cyanide standard solution	conc. 1.000 ppm Matrix: Water and nitric acid	100 ml	503358	285
Fluoride standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503251	358
Fluoride standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503253	358
Iodide standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503261	424
Iodide standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503263	424
Lithium standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503281	462
Lithium standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503283	462
Magnesium standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503291	469
Magnesium standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503293	469
Magnesium standard solution	conc. 1.000 ppm Matrix: Water and nitric acid	500 ml	503390	469
Nitrate standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503331	527
Nitrate standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503333	527
Nitrite standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503321	534
Nitrite standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503323	534
Phosphate standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503341	574
Phosphate standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503343	574
Potassium standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503271	583
Potassium standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503273	583
Sodium standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503301	661
Sodium standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503303	661



Strontium standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503361	723
Sulfate standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503351	729
Sulfate standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503353	729

## Multistandard Solutions for Ion Chromatography

For instrument calibration, the following multi-ion standard solutions are available for ion chromatography, complete with certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval. CARLO ERBA Reagents offers to customers the possibility of requesting quotes and ordering custom-made multi-ion solutions. Just send us your request, specifying the ions of interest, their respective concentrations and the volume requested.

Description	Notes	Size	Code	Page
Multianions standard for ion chromatography	7 elements: Br-, Cl-, NO <sub>3</sub> -, NO <sub>2</sub> -, PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> , F- 1g/l each - Matrix: Water	100 ml	504526	512
Multianions standard for ion chromatography	7 elements: Br- 100ppm, SO <sub>4</sub> <sup>2-</sup> 150ppm, PO <sub>4</sub> <sup>3-</sup> 50ppm, Cl- 30ppm, NO <sub>2</sub> - 30ppm, NO <sub>3</sub> - 20ppm, F- 20 ppm - Matrix: Water	100 ml	504527	512
Multianions standard for ion chromatography	7 elements: F- 20mg/l; Cl- 100mg/l; NO <sub>2</sub> - 100mg/l; Br- 100mg/l; NO <sub>3</sub> - 100mg/l; PO <sub>4</sub> <sup>3-</sup> 200mg/l; SO <sub>4</sub> <sup>2-</sup> 100mg/l; Matrix: Water	500 ml	504677	512

## Concentrated mobile phases for Ion Chromatography

The following eluents are filtered at 0.2µm and prepared from ultra-pure salts and 18-megaohm deionized water. These are concentrated solutions that should be diluted by a factor of 100.

Description	Notes	Size	Code	Page
Eluent sodium bicarbonate	0.5 M Sodium bicarbonate	100 ml	504534	327
Eluent sodium bicarbonate	0.5 M Sodium bicarbonate	1 l	507578	327
Eluent sodium carbonate	0.5 M Sodium carbonate	100 ml	504533	327
Eluent sodium carbonate	0.5 M Sodium carbonate	1 l	507577	327
Eluent sodium carbonate/sodium bicarbonate	0.18 M Sodium carbonate / 0.17 M Sodium bicarbonate	100 ml	504530	328
Eluent sodium carbonate/sodium bicarbonate	0.22 M Sodium carbonate / 0.28 M Sodium bicarbonate	100 ml	504531	328
Eluent sodium carbonate/sodium bicarbonate	0.35 M Sodium carbonate / 0.1 M Sodium bicarbonate	100 ml	504532	328



## TRACE ANALYSIS: METALS

In choosing the most appropriate analytical method to determine metals, each laboratory must consider the sample type and concentration levels, the number of elements to be determined and the costs the choice implies.

As a result, flame and graphite furnace atomic absorption spectrophotometry (AA) and inductively coupled plasma (ICP and ICP-MS) emission spectrometry are the most widely used analytical methods for determining trace elements.

Instrumental analysis, using ICP or AA, generally involves a preliminary treatment of the sample. This operation, known as acid mineralization, consists in a digestion process with hot concentrated acid in order to extract the elements of interest. CARLO ERBA Reagents offers two specific complete range of products (acids, bases and water) for sample and blank preparation. The purity of these products guarantees maximum reliability of the result.

### Superpure Acids for trace metal analysis at ppb level

SUPERPURE range is characterized by blank values generally between 0.5 and 1 ppb, for the 60-plus declared impurities.

They are produced using the most advanced sub-boiling distillation techniques, in special equipment made of quartz or Teflon and packaged in a controlled environment.

In order to minimize the possibility for contamination of the resultant distillate, the packaging is performed in a clean room. They are available in a wide variety of molecules and sizes.

Description	Notes	Size	Code	Page
Acetic acid glacial		500 ml	401405	131
Acetic acid glacial		1 l	401406	131
Acetic acid glacial		2.5 l	401407	131
Ammonia solution 20 - 22%		500 ml	420175	163
Hydrochloric acid 34-37%		500 ml	403915	396
Hydrochloric acid 34-37%		1 l	403916	396
Hydrochloric acid 34-37%		2.5 l	403917	396
Hydrochloric acid 29-31%		1 l	403921	398
Hydrofluoric acid 47-51%		500 ml	405716	411
Nitric acid 67-70%		500 ml	408115	529
Nitric acid 67-70%		1 l	408116	529
Nitric acid 67-70%		2.5 l	408117	529
Perchloric acid 65-71%		1 l	409193	560
Sulfuric acid 93-98%		500 ml	410405	734
Sulfuric acid 93-98%		1 l	410406	734
Sulfuric acid 93-98%		2.5 l	410407	734

### Ultrapure Acids for trace metal analysis at ppt level

ULTRAPURE range is characterized by blank values generally between 50 and 1 ppt, for the 60-plus declared impurities. This extreme level of purity is obtained using the double sub-boiling distillation process and preserved in Teflon packaging, preconditioned with hot acid for at least one week.

Description	Notes	Size	Code	Page
Acetic acid glacial		500 ml	401361	131
Ammonia solution 20 - 22%		500 ml	420161	163
Hydrochloric acid 32-35%		500 ml	403891	396
Hydrofluoric acid 47-51%		500 ml	405611	411
Hydrogen peroxide solution 30-32%		500 ml	412051	413
Nitric acid 67-69%		250 ml	408052	530
Nitric acid 67-69%		500 ml	408051	530
Sulfuric acid 93-98%		500 ml	410351	733
Water		500 ml	412185	787

## Standard solutions 1.000 ppm for AAS

Atomic absorption is the most sensitive technique available to analysts for the determination of metal impurities. It is a technique based on a sequential system which is generally slow but achieves sensitivity limits unattainable with other instrumental techniques. The following ready-to-use standard single-element solutions are obtained by dissolution of the metal, at a purity level of 99.9%, in hydrochloric acid.

They are characterized by:

- Concentration of the metal equal to 1.000 ppm
- Available in 100ml and 500ml bottles in polyethylene or glass depending on compatibility
- Certificate of analysis with references on the N.I.S.T. Standard Reference Materials and uncertainty

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504190	152
Aluminum standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	504186	152
Aluminum standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497405	152
Aluminum standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497401	152
Antimony standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	507525	183
Antimony standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	507479	183
Antimony standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497415	183
Antimony standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497411	183
Arsenic standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504439	185
Arsenic standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507496	185
Barium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507527	191
Barium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507481	191
Barium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497445	191
Barium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497441	191
Beryllium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	506941	201
Beryllium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507497	201
Bismuth standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507528	202
Bismuth standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507482	202
Bismuth standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497455	202
Bismuth standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497451	202
Boron standard solution	conc. 1.000 ppm Matrix: Water	100 ml	E497465	208
Boron standard solution	conc. 1.000 ppm Matrix: Water	500 ml	E497461	208
Cadmium standard solution	conc. 1000 ppm Matrix: Nitric acid	100 ml	507529	232
Cadmium standard solution	conc. 1000 ppm Matrix: Nitric acid	500 ml	507483	232
Calcium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507530	235
Calcium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507476	235
Calcium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497485	235
Calcium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497481	235
Cerium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507531	250
Cerium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507498	250
Cesium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507532	253
Cesium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507499	253
Chromium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	504195	265
Chromium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507485	265
Chromium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497501	265
Cobalt standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507533	271
Cobalt standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507484	271
Cobalt standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497495	271
Cobalt standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497491	271
Copper standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504545	276

Copper standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507478	276
Copper standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497615	276
Copper standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497611	276
Dysprosium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507734	326
Dysprosium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507500	326
Erbium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507735	329
Erbium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507501	329
Europium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507736	352
Europium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507502	352
Gadolinium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507737	366
Gadolinium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507504	366
Gallium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507739	367
Gallium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507503	367
Germanium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507740	369
Germanium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507505	369
Gold standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497585	375
Gold standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497581	375
Hafnium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507741	378
Hafnium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507506	378
Holmium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507742	391
Holmium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507507	391
Indium standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	507743	423
Indium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507508	423
Iron standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504194	429
Iron standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507393	429
Iron standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497515	429
Iron standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497511	429
Lanthanum standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507744	454
Lanthanum standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507509	454
Lead standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507752	456
Lead standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507490	456
Lead standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	E497595	456
Lead standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	E497591	456
Lithium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507745	462
Lithium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507486	462
Lithium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497525	462
Lithium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497521	462
Magnesium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503718	469
Magnesium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503719	469
Magnesium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497535	469
Magnesium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497531	469
Magnesium standard solution	conc. 1.000 ppm Matrix: Water	500 ml	507039	469
Manganese standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507746	479
Manganese standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507488	479
Manganese standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497545	479
Manganese standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497541	479
Mercury standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	497555	484
Mercury standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	497551	484
Mercury standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503640	484



Mercury standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507489	484
Molybdenum standard solution	conc. 1.000 ppm Matrix: Hydrofluoric acid and nitric acid	100 ml	507747	511
Molybdenum standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	507494	511
Molybdenum standard solution	conc. 1.000 ppm Matrix: Ammonium hydroxide	100 ml	E497565	511
Molybdenum standard solution	conc. 1.000 ppm Matrix: Ammonium hydroxide	500 ml	E497561	511
Neodymium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507748	520
Neodymium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507510	520
Nickel standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507749	522
Nickel standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507487	522
Nickel standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497575	522
Nickel standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497571	522
Niobium standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	507750	527
Niobium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507511	527
Palladium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507751	553
Palladium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507512	553
Potassium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507753	582
Potassium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	506960	582
Potassium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497605	582
Potassium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497601	582
Rhenium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507754	638
Rhenium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507513	638
Rubidium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507755	641
Rubidium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507514	641
Samarium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507756	643
Samarium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507515	643
Scandium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507757	645
Scandium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507516	645
Selenium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507758	647
Selenium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507491	647
Selenium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497625	647
Selenium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497621	647
Silicon standard solution	conc. 1.000 ppm Matrix: Water	100 ml	E497635	651
Silicon standard solution	conc. 1.000 ppm Matrix: Water	500 ml	E497631	651
Silver standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507526	653
Silver standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507480	653
Sodium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507759	661
Sodium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503749	661
Sodium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497645	661
Sodium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497641	661
Strontium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507760	723
Strontium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507493	723
Strontium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497665	723
Strontium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497661	723
Tantalum standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507761	745
Tantalum standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507517	745
Tellurium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507762	747
Tellurium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507518	747
Thulium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507763	757

Thulium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507519	757
Tin standard solution	conc. 1.000 ppm Matrix: Hydrofluoric acid and nitric acid	100 ml	503949	760
Tin standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	507492	760
Tin standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497655	760
Tin standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497651	760
Titanium standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	507764	763
Titanium standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	507520	763
Tungsten standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	507765	779
Tungsten standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	507521	779
Vanadium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507766	783
Vanadium standard solution	conc. 1000 ppm Matrix: Nitric acid	500 ml	504187	783
Vanadium standard solution	conc. 1.000 ppm Matrix: Sulfuric acid	100 ml	E497675	783
Vanadium standard solution	conc. 1.000 ppm Matrix: Sulfuric acid	500 ml	E497671	783
Ytterbium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507768	794
Ytterbium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507523	794
Yttrium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507767	795
Yttrium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507522	795
Zinc standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	507769	798
Zinc standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	E497685	798
Zinc standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	507477	798
Zinc standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	E497681	798
Zirconium standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	507770	804
Zirconium standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	507524	804

## Auxiliary products for AAS: Blank, Ionisation standards and matrix modifiers

Ionization buffers, prepared from high-purity salts (99,999%), are used to eliminate ionization phenomena and chemical interference in AAS. Matrix modifiers for graphite furnace AAS can be used diluted or mixed depending on the user's needs, are useful in eliminating the matrix effect in AAS.

Description	Notes	Size	Code	Page
Ammonium di-hydrogen phosphate 25 mg/L solution	Matrix: 1% Nitric acid	50 ml	503194	172
Ammonium nitrate 200 mg/l solution	Matrix: Water	50 ml	503195	174
Cadmium standard solution	conc. 5 ppb - Matrix: 2% Nitric acid	50 ml	504360	232
Cesium chloride 25 g/l solution	Matrix: Water	500 ml	504536	254
Copper standard solution	conc. 10 ppb - Matrix: 2% Nitric acid	50 ml	504361	276
Lanthanum chloride 25 g/l solution	Matrix: Hydrochloric acid	500 ml	504537	454
Lead standard solution	conc. 10 ppb - Matrix: 1% Nitric acid	50 ml	504364	456
Magnesium nitrate 10 g/l solution	Matrix: Water	50 ml	503196	473
Manganese standard solution	conc. 20 ppb - Matrix: 2% Nitric acid	50 ml	504362	480
Mercury standard solution	conc. 0.5 ppm - Matrix: 2% Nitric acid	100 ml	504370	485
Nickel standard solution	conc. 10 ppb - Matrix: 2% Nitric acid	50 ml	504363	522
Nickel (II) nitrate 10g/l	Matrix: 1% Nitric acid	50 ml	503197	524
Palladium nitrate 2 g/l solution	Matrix: 1% Nitric acid	50 ml	503198	554
Palladium nitrate 2 g/l solution	Matrix: 15% Nitric acid	50 ml	503202	554
Potassium chloride 25g/l in HCl	Matrix: 2% Hydrochloric acid	500 ml	504538	589

Water deionized and acidified	Matrix: 2 % Nitric acid	1 l	504550	789
Water deionized and acidified	Matrix: 5 % Nitric acid	1 l	504551	789
Water deionized and acidified	Matrix: 10 % Nitric acid	1 l	504552	789
Water deionized and acidified	Matrix: 2 % Hydrochloric acid	1 l	504553	789
Water deionized and acidified	Matrix: 5 % Hydrochloric acid	1 l	504554	789
Water deionized and acidified	Matrix: 10 % Hydrochloric acid	1 l	504557	789

## Monoelement Standard solutions 10.000 ppm for ICP

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.99%, in an acid (usually nitric acid).

They are characterized by:

- Produced under a Quality Management System that is Accredited according to ISO/IEC 17025 and ISO 17034
- Concentrations of 10.000 ppm
- Guaranteed titer with its uncertainty
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials;
- Available in 100ml and 500ml polyethylene bottles
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	503415	152
Aluminum standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	500 ml	503417	152
Antimony standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	503895	182
Antimony standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	500 ml	503897	182
Arsenic standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503425	185
Arsenic standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503427	185
Barium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	503455	191
Barium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	500 ml	503457	191
Bismuth standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503475	202
Bismuth standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503477	202
Boron standard solution	conc. 10.000 ppm Matrix: Water	100 ml	503445	208
Boron standard solution	conc. 10.000 ppm Matrix: Water	500 ml	503447	208
Cadmium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503495	232
Cadmium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503497	232
Calcium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503485	235
Calcium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503487	235
Cerium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503505	250
Cerium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503507	250
Cesium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503535	253
Cesium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503537	253
Chromium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503525	265
Chromium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503527	265
Cobalt standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503515	271
Cobalt standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503517	271
Copper standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503545	276
Copper standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503547	276
Dysprosium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	504235	325
Dysprosium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	504237	325
Erbium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	504245	329
Erbium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	504247	329
Europium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503575	351
Europium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503577	351
Gadolinium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503605	366
Gadolinium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503607	366

Germanium standard solution	conc. 10.000 ppm Matrix: Hydrofluoric acid and nitric acid	100 ml	504255	369
Germanium standard solution	conc. 10.000 ppm Matrix: Hydrofluoric acid and nitric acid	500 ml	504257	369
Gold standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	503435	375
Gold standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	500 ml	503437	375
Hafnium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	504225	378
Hafnium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	504227	378
Holmium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	504265	390
Holmium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	504267	390
Indium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503655	423
Indium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503657	423
Iron standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503585	428
Iron standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503587	428
Lanthanum standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503685	453
Lanthanum standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503687	453
Lead standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503805	456
Lead standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503807	456
Lithium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	503695	462
Lithium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	500 ml	503697	462
Lutetium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503615	467
Lutetium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503617	467
Magnesium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503715	469
Magnesium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503717	469
Manganese standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503725	479
Manganese standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503727	479
Mercury standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503635	484
Mercury standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503637	484
Molybdenum standard solution	conc. 10.000 ppm Matrix: Ammonium hydroxide	100 ml	503735	510
Molybdenum standard solution	conc. 10.000 ppm Matrix: Ammonium hydroxide	500 ml	503737	510
Neodymium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503765	520
Neodymium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503767	520
Nickel standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503775	522
Nickel standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503777	522
Niobium standard solution	conc. 10.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	503755	527
Niobium standard solution	conc. 10.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	503757	527
Palladium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	503815	553
Palladium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	500 ml	503817	553
Phosphorus standard solution	conc. 10.000 ppm Matrix: Water	100 ml	503795	577
Phosphorus standard solution	conc. 10.000 ppm Matrix: Water	500 ml	503797	577
Platinum standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	503835	581
Platinum standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	500 ml	503837	581
Potassium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503675	582
Potassium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503677	582
Praseodymium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503825	621
Praseodymium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503827	621
Rhodium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	503865	639
Rubidium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503845	640



Rubidium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503847	640
Ruthenium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	503875	641
Ruthenium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	500 ml	503877	641
Samarium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503935	643
Samarium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503937	643
Scandium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503905	645
Scandium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503907	645
Selenium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503915	647
Selenium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503917	647
Silicon standard solution	conc. 10.000 ppm Matrix: Water	100 ml	503925	651
Silicon standard solution	conc. 10.000 ppm Matrix: Water	500 ml	503927	651
Silicon standard solution	conc. 10.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	504275	651
Silicon standard solution	conc. 10.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	504277	651
Silver standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503405	653
Silver standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503407	653
Sodium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503745	661
Sodium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503747	661
Strontium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503955	722
Strontium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503957	722
Sulfur standard solution	conc. 10.000 ppm Matrix: Water	100 ml	504295	730
Sulfur standard solution	conc. 10.000 ppm Matrix: Water	500 ml	504297	730
Tantalum standard solution	conc. 10.000 ppm Matrix: Hydrofluoric acid and nitric acid	100 ml	503965	745
Tantalum standard solution	conc. 10.000 ppm Matrix: Hydrofluoric acid and nitric acid	500 ml	503967	745
Tellurium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	503985	747
Tellurium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	500 ml	503987	747
Terbium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	503975	748
Terbium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	503977	748
Thallium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	504015	754
Thallium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	504017	754
Tin standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	503945	760
Tin standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	500 ml	503947	760
Titanium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid	100 ml	504005	763
Titanium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid	500 ml	504007	763
Tungsten standard solution	conc. 10.000 ppm Matrix: 10% ammonia	100 ml	504055	779
Tungsten standard solution	conc. 10.000 ppm Matrix: 10% ammonia	500 ml	504057	779
Uranium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	504035	782
Uranium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	504037	782
Vanadium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	504045	783
Vanadium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	504047	783
Ytterbium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	504075	794
Ytterbium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	504077	794
Yttrium standard solution	conc. 10.000 ppm Matrix: Nitric acid	100 ml	504065	795
Yttrium standard solution	conc. 10.000 ppm Matrix: Nitric acid	500 ml	504067	795
Zinc standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	100 ml	504085	798
Zinc standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid	500 ml	504087	798

Zirconium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid	100 ml	504095	804
Zirconium standard solution	conc. 10.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid	500 ml	504097	804

## Monoelement Standard solutions 1.000 ppm for ICP

ICP is a widely used analytical technique for trace metal analysis. It is based on a simultaneous system which allows quick and convenient analyses for a large number of determinable elements. One of the latest technological advances in the area of coupled analytical techniques involves the optimization of the ICP-MS technique, a versatile and vital instrument for the quick and reliable analysis of trace and ultra-trace metals.

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.99%, in an acid (usually nitric acid).

They are characterized by:

- Produced under a Quality Management System that is Accredited according to ISO/IEC 17025 and ISO 17034
- Concentrations of 1.000 ppm
- Guaranteed titer with its uncertainty
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials
- Available in 100ml and 500ml polyethylene bottles
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503411	152
Aluminum standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503413	152
Antimony standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503891	182
Antimony standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503893	182
Antimony standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	503899	182
Antimony standard solution	conc. 1.000 ppm Matrix: Hydrofluoric acid and nitric acid	500 ml	503898	182
Arsenic standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503421	185
Arsenic standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503423	185
Barium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503451	191
Barium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503453	191
Beryllium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503461	201
Beryllium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503463	201
Bismuth standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503471	202
Bismuth standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503473	202
Boron standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503441	208
Boron standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503443	208
Cadmium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503491	232
Cadmium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503493	232
Calcium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503481	235
Calcium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503483	235
Cerium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503501	250
Cerium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503503	250
Cesium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503531	253
Cesium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503533	253
Chromium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503521	265
Chromium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503523	265
Cobalt standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503511	271
Cobalt standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503513	271
Copper standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503541	276
Copper standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503543	276
Dysprosium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504231	325
Dysprosium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	504233	325
Erbium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504241	329

Erbium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	504243	329
Europium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503571	351
Europium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503573	351
Gadolinium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503601	366
Gadolinium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503603	366
Germanium standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	504251	369
Germanium standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	504253	369
Gold standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503431	375
Gold standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503433	375
Hafnium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504221	378
Hafnium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	504223	378
Holmium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504261	390
Holmium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	504263	390
Indium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503651	423
Indium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503653	423
Iron standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503581	428
Iron standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503583	428
Lanthanum standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503681	453
Lanthanum standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503683	453
Lead standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503801	456
Lead standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503803	456
Lithium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503691	462
Lithium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503693	462
Lutetium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503611	467
Lutetium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503613	467
Magnesium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503711	469
Magnesium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503713	469
Manganese standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503721	479
Manganese standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503723	479
Mercury standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503631	484
Mercury standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503633	484
Molybdenum standard solution	conc. 1.000 ppm Matrix: Ammonium hydroxide	100 ml	503731	510
Molybdenum standard solution	conc. 1.000 ppm Matrix: Ammonium hydroxide	500 ml	503733	510
Neodymium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503761	520
Neodymium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503763	520
Nickel standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503771	522
Nickel standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503773	522
Niobium standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	503751	527
Niobium standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	503753	527
Palladium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503811	553
Palladium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503813	553
Phosphorus standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503791	577
Phosphorus standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503793	577
Platinum standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503831	581
Platinum standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503833	581
Potassium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503671	582
Potassium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503673	582

Praseodymium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503821	621
Praseodymium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503823	621
Rhodium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503861	639
Rhodium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503863	639
Rubidium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503841	640
Rubidium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503843	640
Ruthenium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503871	641
Ruthenium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503873	641
Samarium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503931	643
Samarium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503933	643
Scandium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503901	645
Scandium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503903	645
Selenium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503911	647
Selenium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503913	647
Silicon standard solution	conc. 1.000 ppm Matrix: Water	100 ml	503921	651
Silicon standard solution	conc. 1.000 ppm Matrix: Water	500 ml	503923	651
Silicon standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	504271	651
Silicon standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	504273	651
Silver standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503401	653
Silver standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503403	653
Sodium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503741	661
Sodium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503743	661
Strontium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503951	722
Strontium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503953	722
Sulfur standard solution	conc. 1.000 ppm Matrix: Water	100 ml	504291	730
Sulfur standard solution	conc. 1.000 ppm Matrix: Water	500 ml	504293	730
Tantalum standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	503961	745
Tantalum standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	500 ml	503963	745
Tellurium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503981	747
Tellurium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503983	747
Terbium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	503971	748
Terbium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	503973	748
Thallium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504011	754
Thallium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	504013	754
Thorium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504281	756
Thorium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	504283	756
Tin standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	503941	760
Tin standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	503943	760
Titanium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid	100 ml	504001	763
Titanium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid	500 ml	504003	763
Tungsten standard solution	conc. 1.000 ppm Matrix: Water	100 ml	504058	779
Tungsten standard solution	conc. 1.000 ppm Matrix: 4% ammonia	100 ml	504051	779
Tungsten standard solution	conc. 1.000 ppm Matrix: 4% ammonia	500 ml	504053	779
Uranium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504031	782
Uranium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	504033	782
Vanadium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504041	783



Vanadium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	504043	783
Ytterbium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504071	794
Ytterbium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	504073	794
Yttrium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	504061	795
Yttrium standard solution	conc. 1.000 ppm Matrix: Nitric acid	500 ml	504063	795
Zinc standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	504081	798
Zinc standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	500 ml	504083	798
Zirconium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid	100 ml	504091	804
Zirconium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid	500 ml	504093	804

## Monoelement Standard solutions 1.000 ppm for ICP-MS

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.999%, in an acid (usually nitric acid).

They are characterized by:

- Produced under a Quality Management System that is Accredited according to ISO/IEC 17025 and ISO 17034
- Concentrations of 1.000 ppm
- Guaranteed titer with its uncertainty
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials and packaged in a cleanroom
- Available in 100ml LDPE bottles
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505309	151
Antimony standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505833	182
Arsenic standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505313	185
Barium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505329	191
Beryllium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505333	201
Bismuth standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505339	202
Boron standard solution	conc. 1.000 ppm Matrix: Water	100 ml	505323	208
Cadmium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505549	232
Calcium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505543	235
Chromium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505569	264
Cobalt standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505563	270
Copper standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505579	275
Gallium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505619	367
Germanium standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505633	369
Gold standard solution	conc. 1000 ppm Matrix: Hydrochloric acid	100 ml	505319	375
Indium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505663	422
Iron standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505613	428
Lanthanum standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505693	453
Lead standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505769	456
Lithium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505703	462
Lutetium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505709	467
Magnesium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505713	469
Manganese standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505719	479
Mercury standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505654	484
Molybdenum standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505723	510
Nickel standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505753	522
Phosphorus standard solution	conc. 1.000 ppm Matrix: Water	100 ml	505763	577
Platinum standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	505789	580
Potassium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505683	582

Rhodium standard solution	conc. 1.000 ppm Matrix: Hydrochloric acid	100 ml	505809	638
Scandium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505839	645
Selenium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505843	647
Silver standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505303	653
Sodium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505733	661
Strontium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505869	722
Sulfur standard solution	conc. 1.000 ppm Matrix: Water	100 ml	505823	730
Terbium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505883	748
Thallium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505913	754
Tin standard solution	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505863	760
Titanium standard solution	conc. 1.000 ppm Matrix: Hydrofluoric acid and nitric acid	100 ml	505909	763
Vanadium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505929	783
Yttrium standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505943	794
Zinc standard solution	conc. 1.000 ppm Matrix: Nitric acid	100 ml	505953	797

## Monoelement Standard solutions 100 ppm for ICP-MS

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.999%, in an acid (usually nitric acid).

They are characterized by:

- Produced under a Quality Management System that is Accredited according to ISO/IEC 17025 and ISO 17034
- Concentrations of 100 ppm
- Guaranteed titer with its uncertainty
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials and packaged in a cleanroom
- Available in 100ml LDPE bottles
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505308	151
Antimony standard solution	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505835	182
Arsenic standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505315	185
Barium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505328	191
Beryllium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505335	201
Bismuth standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505338	202
Boron standard solution	conc. 100 ppm Matrix: Water	100 ml	505325	208
Cadmium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505548	232
Calcium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505545	235
Cerium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505555	250
Cesium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505575	253
Chromium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505568	264
Cobalt standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505565	270
Copper standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505578	275
Dysprosium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505585	325
Erbium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505595	329
Europium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505605	351
Gadolinium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505625	366
Gallium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505618	367
Germanium standard solution	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505635	369
Gold standard solution	conc. 100 ppm Matrix: Hydrochloric acid	100 ml	505318	375
Hafnium standard solution	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505645	378
Holmium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505658	390

Indium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505665	422
Iridium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505675	427
Iron standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505615	428
Lanthanum standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505695	453
Lead standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505768	456
Lithium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505705	462
Lutetium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505708	467
Magnesium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505715	469
Manganese standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505718	479
Mercury standard solution	conc. 100 ppm Matrix: Hydrochloric acid	100 ml	505655	484
Mercury standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	506918	484
Molybdenum standard solution	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505725	510
Neodymium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505745	519
Nickel standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505755	522
Niobium standard solution	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505738	526
Osmium standard solution	conc. 100 ppm Matrix: Hydrochloric acid	100 ml	505758	549
Palladium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505775	553
Phosphorus standard solution	conc. 100 ppm Matrix: Water	100 ml	505765	577
Platinum standard solution	conc. 100 ppm Matrix: Hydrochloric acid	100 ml	505788	580
Potassium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505685	582
Praseodymium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505785	621
Rhenium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505805	638
Rhodium standard solution	conc. 100 ppm Matrix: Hydrochloric acid	100 ml	505808	638
Rubidium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505795	640
Ruthenium standard solution	conc. 100 ppm Matrix: Hydrochloric acid	100 ml	505815	641
Samarium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505855	643
Scandium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505838	645
Selenium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505845	647
Silicon standard solution	conc. 100 ppm Matrix: Water	100 ml	505848	651
Silver standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505305	653
Sodium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505735	661
Strontium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505868	722
Sulfur standard solution	conc. 100 ppm Matrix: Water	100 ml	505825	730
Tantalum standard solution	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505875	744
Tellurium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505888	747
Terbium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505885	748
Thallium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505915	754
Thulium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505918	756
Tin standard solution	conc. 100 ppm Matrix: Hydrofluoric acid and nitric acid	100 ml	505865	760
Titanium standard solution	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505908	763
Tungsten standard solution	conc. 100 ppm. Matrix: Ammonium hydroxyde	100 ml	505935	779
Uranium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505923	782
Vanadium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505928	783
Ytterbium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505948	794
Yttrium standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505945	794
Zinc standard solution	conc. 100 ppm Matrix: Nitric acid	100 ml	505955	797

Zirconium standard solution	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505958	804
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## Monoelement Standard solutions 10 ppm for ICP-MS

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.999%, in an acid (usually nitric acid).

They are characterized by:

- Produced under a Quality Management System that is Accredited according to ISO/IEC 17025 and ISO 17034
- Concentrations of 10 ppm
- Guaranteed titer with its uncertainty
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials and packaged in a cleanroom
- Available in 100ml LDPE bottles
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505307	151
Antimony standard solution	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505832	182
Arsenic standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505312	185
Barium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505327	191
Beryllium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505332	201
Bismuth standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505337	202
Boron standard solution	conc. 10 ppm Matrix: Water	100 ml	505322	208
Cadmium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505547	232
Calcium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505542	235
Cerium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505552	250
Cesium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505572	253
Chromium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505567	264
Cobalt standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505562	270
Copper standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505577	275
Dysprosium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505582	325
Erbium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505592	329
Europium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505602	351
Gadolinium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505622	366
Gallium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505617	367
Germanium standard solution	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505632	369
Gold standard solution	conc. 10 ppm Matrix: Hydrochloric acid	100 ml	505317	375
Hafnium standard solution	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505642	378
Holmium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505657	390
Indium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505662	422
Iron standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505612	428
Lanthanum standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505692	453
Lead standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505767	456
Lithium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505702	462
Lutetium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505707	467
Magnesium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505712	469
Manganese standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505717	479
Mercury standard solution	conc. 10 ppm Matrix: Nitric acid	100 ml	505652	484
Molybdenum standard solution	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505722	510
Neodymium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505742	519
Nickel standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505752	522
Niobium standard solution	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505737	526



Palladium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505772	553
Phosphorus standard solution	conc. 10 ppm Matrix: Water	100 ml	505762	577
Platinum standard solution	conc. 10 ppm Matrix: Hydrochloric acid	100 ml	505787	580
Potassium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505682	582
Praseodymium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505782	621
Rhenium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505802	638
Rhodium standard solution	conc. 10 ppm Matrix: Hydrochloric acid	100 ml	505807	638
Rubidium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505792	640
Ruthenium standard solution	conc. 10 ppm Matrix: Hydrochloric acid	100 ml	505812	641
Samarium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505852	643
Scandium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505837	645
Selenium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505842	647
Silicon standard solution	conc. 10 ppm Matrix: Water	100 ml	505847	651
Silver standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505302	653
Sodium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505732	661
Strontium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505867	722
Sulfur standard solution	conc. 10 ppm Matrix: Water	100 ml	505822	730
Tantalum standard solution	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505872	744
Tellurium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505887	747
Terbium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505882	748
Thallium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505912	754
Thulium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505917	756
Tin standard solution	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505862	760
Titanium standard solution	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505907	763
Tungsten standard solution	conc. 10 ppm. Matrix: Ammonium hydroxyde	100 ml	505932	779
Uranium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505922	782
Vanadium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505927	783
Ytterbium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505947	794
Yttrium standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505942	794
Zinc standard solution	conc. 10 ppm. Matrix: Nitric acid	100 ml	505952	797
Zirconium standard solution	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid	100 ml	505957	804

## Multielement Standard Solutions for ICP

These standard solutions are intended for calibration of the instrument and are ideal for checking the reproducibility of analytical results. They are obtained by dissolution of various metals in an acid, usually hydrochloric or nitric acid.

They are characterized by:

- Produced under a Quality Management System that is Accredited according to ISO/IEC 17025 and ISO 17034
- Guaranteed titer with a tolerance of 0.2% at the 95% confidence level
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials
- Available in 100ml and 500ml polyethylene bottles

Contact us with your specific mixture (CAS, concentration, solvent, volume, packaging) and you will receive our offer according to your needs.

Description	Notes	Size	Code	Page
Multielement standard for ICP	13 elements: Al, Mg, Cr, Mn, Cu, Rh, In, Cd, Ce, Pb, Th, B, Ba 0,01mg/ml each - Matrix: Nitric acid	500 ml	504396	513
Multielement standard for ICP	22 elements: As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix: Nitric acid	100 ml	504350	514

Multielement standard for ICP	33 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Nb, Ni, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 1ppm each - Matrix: Nitric acid	100 ml	504354	514
Multielement standard for ICP	40 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, Ga, Ge, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Pd, Rb, Sb, Se, Sn, Sr, Ta, Ti, Tl, U, V, W, Zn, Zr 1ppm each - Matrix: Nitric acid	100 ml	504356	514
Multielement standard for ICP	22 elements: As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix: Nitric acid	500 ml	504351	514
Multielement standard for ICP	28 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix: Nitric acid	500 ml	504353	514
Multielement standard for ICP	33 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Nb, Ni, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 1ppm each - Matrix: Nitric acid	500 ml	504355	514
Multielement standard for ICP	40 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, Ga, Ge, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Pd, Rb, Sb, Se, Sn, Sr, Ta, Ti, Tl, U, V, W, Zn, Zr 1ppm each - Matrix: Nitric acid	500 ml	504357	514
Multielement standard for ICP	6 elements: Au, Ir, Pb, Pt, Rh, Ru 100ppm each - Matrix: Nitric acid	100 ml	504301	514
Multielement standard for ICP	16 elements: Al, As, Ba, Be, Bi, Ca, Cs, Ga, In, K, Li, Mg, Na, Rb, Se, Sr 100ppm each - Matrix: Nitric acid	100 ml	504303	514
Multielement standard for ICP	13 elements: Ag, Cd, Co, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Tl, V, Zn 100ppm each - Matrix: Nitric acid	100 ml	504305	514
Multielement standard for ICP	24 components: Ag 1mg/kg; Sb 1mg/kg; As 1mg/kg; Mn 1mg/kg; Cd 1mg/kg; Cr 1mg/kg; Ti 1mg/kg; Pb 1mg/kg; Co 1mg/kg; Ni 1mg/kg; Se 1mg/kg; V 1mg/kg; Mo 1mg/kg; Sn 1mg/kg; Ba 1mg/kg; Be 1mg/kg; Li 1mg/kg; Tl 1mg/kg; Bi 1mg/kg; Al 10mg/kg; Cu 10mg/kg; Fe 10mg/kg; B 10mg/kg; Zn 10mg/kg - Matrix: nitric acid	100 ml	504480	514
Multielement standard for ICP	22 elements: As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix: Nitric acid	100 ml	504306	515
Multielement standard for ICP	28 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix: Nitric acid	100 ml	504308	515
Multielement standard for ICP	33 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 100ppm - Matrix: Nitric acid	100 ml	504310	515
Multielement standard for ICP	9 elements: Au, Ir, Os, Pb, Pt, Rh, Ru, Sn, Te 100ppm each - Matrix: Hydrochloric acid	100 ml	504312	515
Multielement standard for ICP	22 elements: As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix: Nitric acid	500 ml	504307	515
Multielement standard for ICP	28 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix: Nitric acid	500 ml	504309	515
Multielement standard for ICP	33 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 100ppm each - Matrix: Nitric acid	500 ml	504311	515
Multielement standard for ICP	9 elements: Au, Ir, Os, Pb, Pt, Rh, Ru, Sn, Te 100ppm each - Matrix: Hydrochloric acid	500 ml	504313	515

Multielement standard for ICP and ICP-MS	28 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix: Nitric acid	100 ml	504352	515
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## Multielement Standard Solutions for ICP-MS

These standard solutions are commonly used for tuning ICP-MS instruments and for quality control. They are characterized by:

- Produced under a Quality Management System that is Accredited according to ISO/IEC 17025 and ISO 17034
  - Concentrations of 10 ppm
  - Guaranteed titer with its uncertainty
  - Raw materials selected and verified against N.I.S.T. Standard Reference Materials and packaged in a cleanroom
  - Available in 100ml LDPE bottles
  - Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval
- Contact us with your specific mixture (Elements, concentration, matrix, volume, quantity) and you will receive our offer according to your needs.

Description	Notes	Size	Code	Page
Multielement standard for ICP and ICP-MS	9 elements: Be, Mg, Co, In, Rh, Ce, Ba, Pb, U 10ppm each - Matrix: Nitric acid	100 ml	504392	515
Multielement standard for ICP and ICP-MS	13 elements: Ba, Be, Bi, Ce, Cu, Ho, In, Li, Mg, Pb, Tl, U, Y 10ppm each - Matrix: Nitric acid	100 ml	504393	515

**TRACE ANALYSIS: ORGANICS**

CARLO ERBA Reagents offers tailored formulation of organic substances according to the ISO 17025 accredited Quality Management System and ISO Guide 34.

These organic mixtures are specific for instrument calibration and traceable to NIST.

Specific mixtures could be prepared if you send us CAS number, concentration, solvent, volume and packaging.

**Standard Solutions for Pesticides analysis**

Description	Notes	Size	Code	Page
Organic standard: Pesticide mixture	45 components 10mg/ml each in cyclohexane/acetone: Acetochlor [CAS:34256-82-1]10mg/l; Aclonifen [CAS:74070-46-5] 10mg/l; Alachlor [CAS:15972-60-8] 10mg/l; Bifenthrin [CAS:82657-04-3] 10mg/l; Cadusafos [CAS:95465-99-9] 10mg/l; Captan [CAS:133-06-2] 10mg/l; Carbofuran [CAS:1563-66-2] 10mg/l; Chlorfenvinphos [CAS:470-90-6]10mg/l; Chlormephos [CAS:24934-91-6] 10mg/l; Chlorothalonil [CAS:1897-45-6] 10mg/l Chlorpyrifos [CAS:2921-88-2] 10mg/l; Chlorpyrifos methyl [CAS:5598-13-0] 10mg/l; lambda-Cyhalothrin [CAS:91465-08-6] 10mg/l; Cypermethrin [CAS:52315-07-8]10mg/l; Delta-HCH [CAS:319-86-8] 10mg/l; Diazinon [CAS:333-41-5] 10mg/l; Dichlobenil [CAS:1194-65-6] 10mg/l; Dinoterb [CAS:1420-07-1] 10mg/l; Endosulfan-total (sulfate) [CAS:1031-07-8] 10mg/l; Fipronil [CAS:120068-37-3] 10mg/l; Folpet [CAS:133-07-3] 10mg/l; Heptachlor-endo-epoxide [CAS:28044-83-9] 10mg/l; Hexachloro-1,3-butadiene [CAS:87-68-3]10mg/l; Iprodione [CAS:36734-19-7] 10mg/l; Isofenphos [CAS:25311-71-1]10mg/l; Malathion [CAS:121-75-5] 10mg/l; Metazachlor [CAS:67129-08-2] 10mg/l; Oxadiazon [CAS:19666-30-9] 10mg/l; Oxyfluorfen [CAS:42874-03-3] 10mg/l; Parathion (Parathion-ethyl) [CAS:56-38-2] 10mg/l; Parathion-methyl [CAS:298-00-0] 10mg/l; Pendimethalin [CAS:40487-42-1] 10mg/l; Pentachlorobenzene [CAS:608-93-5] 10mg/l; Procymidone [CAS:32809-16-8] 10mg/l; Propachlor [CAS:1918-16-7] 10mg/l; Tebutam [CAS:35256-85-0] 10mg/l; Tefluthrin [CAS:79538-32-2] 10mg/l; Terbufos [CAS:13071-79-9] 10mg/l; Tolyfluanid [CAS:731-27-1] 10mg/l; Triazophos [CAS:24017-47-8] 10mg/l; Trifluralin [CAS:1582-09-8] 10mg/l; Vinclozolin [CAS:50471-44-8] 10mg/l; Piperonyl butoxide [CAS:51-03-6] 10mg/l; Metolachlor [CAS:51218-45-2] 5mg/l; S-Metolachlor [CAS:87392-12-9] 5mg/l	1 ml	506897	546

Organic standard: Pesticide mixture	<p>79 components in acetone: Bifenthrin [CAS:82657-04-3] 120µg/ml; lambda-Cyhalothrin [CAS:91465-08-6] 100µg/ml; Cypermethrin [CAS:5231 5-07-8] 130µg/ml; Deltamethrin [CAS:52918-63-5] 130µg/ml; Fenvalerate [CAS:51630-58-1] 105µg/ml; Permethrin [CAS:52645-53-1] 100µg/ml; tau-Fluvalinate [CAS:102851-06-9] 100µg/ml; Tetramethrin [CAS:7696-12-0] 100µg/ml; Aldrin [CAS:309-00-2] 20µg/ml; cis-Chlordane [CAS:5103-71-9] 20µg/ml; trans-Chlordane [CAS:5103-74-2] 20µg/ml; 2,4'-DDD [CAS:53-19-0] 20µg/ml; 4,4'-DDD (TDE) [CAS:72-54-8] 20µg/ml; 2,4'-DDE [CAS:3424-82-6] 20µg/ml; 4,4'-DDE [CAS:72-55-9] 20µg/ml; 2,4'-DDT [CAS:789-02-6] 20µg/ml; 4,4'-DDT [CAS:50-29-3] 20µg/ml; Dieldrin [CAS:60-57-1] 20µg/ml; Endosulfan-alpha [CAS:959-98-8] 20µg/ml; Endosulfan-beta [CAS:33213-65-9] 20µg/ml; Endosulfan-total (sulfate) [CAS:1031-07-8] 20µg/ml; Endrin [CAS:72-20-8] 20µg/ml; Endrin aldehyde [CAS:7421-93-4] 20µg/ml; Alpha-HCH [CAS:319-84-6] 20µg/ml; Beta-HCH [CAS:319-85-7] 20µg/ml; Delta-HCH [CAS:319-86-8] 20µg/ml; Gamma-HCH (Lindane) [CAS:58-89-9] 20µg/ml; Heptachlor [CAS:76-44-8] 20µg/ml; Heptachlor-endo-epoxide [CAS:28044-83-9] 20µg/ml; Heptachlor-exo-epoxide [CAS:1024-57-3] 20µg/ml; Hexachlorobenzene [CAS:118-74-1] 20µg/ml; PCB 209 [CAS:2051-24-3] 20µg/ml; PCB 29 [CAS:15862-07-4] 20µg/ml; Vinclozolin [CAS:50471-44-8] 20µg/ml; Alachlor [CAS:15972-60-8] 100µg/ml; Bromopropylate [CAS:18181-80-1] 50µg/ml; Chlorothalonil [CAS:1897-45-6] 25µg/ml; Dicofol [CAS:115-32-2] 75µg/ml; Iprodione [CAS:36734-19-7] 200µg/ml; Nitrofen [CAS:1836-75-5] 20µg/ml; oxy-Chlordane [CAS:27304-13-8] 20µg/ml; Phosalone [CAS:2310-17-0] 20µg/ml; Procymidone [CAS:32809-16-8] 150µg/ml; Tetradifon [CAS:116-29-0] 20µg/ml; Bromophos-ethyl [CAS:4824-78-6] 100µg/ml; Bromophos-methyl [CAS:2104-96-3] 100µg/ml; Chlorfenvinphos [CAS:470-90-6] 100µg/ml; Chlorpyrifos (Chlorpyrifos-ethyl) [CAS:2921-88-2] 100µg/ml; Chlorpyrifos methyl [CAS:5598-13-0] 100µg/ml; Diazinon [CAS:333-41-5] 100µg/ml; Dichlorvos [CAS:62-73-7] 100µg/ml; Dimethoate [CAS:60-51-5] 100µg/ml; Disulfoton [CAS:298-04-4] 50µg/ml; Fenchlorphos [CAS:299-84-3] 100µg/ml; Fenthion [CAS:55-38-9] 100µg/ml; Malathion [CAS:121-75-5] 100µg/ml; Parathion (Parathion-ethyl) [CAS:56-38-2] 100µg/ml; Parathion-methyl [CAS:298-00-0] 100µg/ml; Pirimiphos-methyl [CAS:29232-93-7] 100µg/ml; Terbufos [CAS:13071-79-9] 100µg/ml; Acephate [CAS:30560-19-1] 100µg/ml; Azinphos-ethyl [CAS:2642-71-9] 400µg/ml; Azinphos-methyl [CAS:86-50-0] 400µg/ml; Demeton-S-methyl [CAS:919-86-8] 100µg/ml; Ethion [CAS:563-12-2] 20µg/ml; Fenamiphos [CAS:22224-92-6] 50µg/ml; Fenitrothion [CAS:122-14-5] 50µg/ml; Fonofos [CAS:944-22-9] 40µg/ml; Metalaxyl [CAS:57837-19-1] 600µg/ml; Methamidophos [CAS:10265-92-6] 100µg/ml; Methidathion [CAS:950-37-8] 100µg/ml; Mevinphos [CAS:7786-34-7] 100µg/ml; Monocrotophos [CAS:6923-22-4] 100µg/ml; Oxa dixyl [CAS:77732-09-3] 400µg/ml; Phorate [CAS:298-02-2] 50µg/ml; Phosphamidon [CAS:13171-21-6] 100µg/ml; Pirimiphos-ethyl [CAS:23505-41-1] 50µg/ml; Triazophos [CAS:24017-47-8] 100µg/ml; Tefluthrin [CAS:79538-32-2] 10µg/ml</p>	1 ml	506905	546
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Organic standard: Pesticide mixture	29 component 20µg/ml each in toluene/acetone: Aldrin [CAS:309-00-2]; Alpha-HCH [CAS:319-84-6]; Beta-HCH [CAS:319-85-7]; Delta-HCH [CAS:319-86-8]; cis-Chlordane (alpha-Chlordane) [CAS:5103-71-9]; Dieldrin [CAS:60-57-1]; Endosulfan-alpha [CAS:959-98-8]; Endosulfan-beta [CAS:33213-65-9]; Endosulfan-total (sulfate) [CAS:1031-07-8]; Endrin [CAS:72-20-8]; Endrin aldehyde [CAS:7421-93-4]; Endrin ketone [CAS:53494-70-5]; Gamma-HCH (Lindane) [CAS:58-89-9]; trans-Chlordane (Gamma-Chlordane) [CAS:5103-74-2]; Heptachlor [CAS:76-44-8]; Heptachlor-exo-epoxide (cis-Heptachlorepoxide (cis-, exo-,) [CAS:1024-57-3]; Methoxychlor (DMTD) [CAS:72-43-5]; 4,4'-DDD (TDE) [CAS:72-54-8]; 4,4'-DDE [CAS:72-55-9]; 4,4'-DDT [CAS:50-29-3]; Dicofof [CAS:115-32-2]; Nitrofen [CAS:1836-75-5]; Isodrin [CAS:465-73-6]; Alachlor [CAS:15972-60-8]; Hexachlorobenzene (HCB) [CAS:118-74-1]; 2,4'-DDE [CAS:3424-82-6]; 2,4'-DDD [CAS:53-19-0]; 2,4'-DDT [CAS:789-02-6]; oxy-Chlordane [CAS:27304-13-8]; trans-Nonachlor [CAS:39765-80-5]	1 ml	506948	546
Organic standard: Pesticide mixture	17 components 20µg/ml each in toluene/acetone: Cyfluthrin [CAS:68359-37-5]; Cypermethrin [CAS:52315-07-8]; Fenvalerate [CAS:51630-58-1]; Permethrin [CAS:52645-53-1]; Phenothrin [CAS:26002-80-2]; Tetramethrin [CAS:7696-12-0]; lambda-Cyhalothrin [CAS:91465-08-6]; Piperonyl butoxide [CAS:51-03-6]; Bifenthrin [CAS:82657-04-3]; Chlorothalonil [CAS:1897-45-6]; Quintozene [CAS:82-68-8]; Tecnazene [CAS:117-18-0]; Chlorobenzilate [CAS:510-15-6]; Vinclozolin [CAS:50471-44-8]; Chlordecone hydrate [CAS:143-50-0]; Captan [CAS:133-06-2]	1 ml	506950	546
Organic standard: Pesticide mixture	12 components 10µg/ml each in acetonitrile: Azoxystrobin [CAS:131860-33-8]; Boscalid [CAS:188425-85-6]; Carbendazim [CAS:10605-21-7]; Chlorpyrifos [CAS:2921-88-2]; Cyprodinil [CAS:121552-61-2]; Linuron [CAS:330-55-2]; Metalaxyl [CAS:57837-19-1]; Methomyl [CAS:16752-77-5]; Myclobutanil [CAS:88671-89-0]; Pyrimethanil [CAS:53112-28-0]; Pirimicarb [CAS:23103-98-2]; Thiabendazole [CAS:148-79-8]	10 ml	506803	546

## Standard Solutions for PCBs analysis

Description	Notes	Size	Code	Page
Organic standard PCB	PCB 29 [15862-07-4] 10µg/ml in isooctane	1 ml	507127	540
Organic standard PCB	PCB 30 [35693-92-6] 10µg/ml in isooctane	1 ml	507128	540
Organic standard PCB	PCB 73 [74338-23-1] 10µg/ml in isooctane	1 ml	507129	540
Organic standard PCB	PCB 89 [73575-57-2] 10µg/ml in isooctane	1 ml	507131	540
Organic standard PCB	PCB 90 [68194-07-0] 10µg/ml in isooctane	1 ml	507132	540
Organic standard PCB	PCB 106 [70424-69-0] 10µg/ml in isooctane	1 ml	507133	540
Organic standard PCB	PCB 164 [74472-45-0] 10µg/ml in isooctane	1 ml	507134	540
Organic standard PCB	PCB 143 [68194-15-0] 10µg/ml in isooctane	1 ml	507135	540
Organic standard PCB	PCB 155[33979-03-2] 10µg/ml in isooctane	1 ml	507136	540
Organic standard PCB	PCB 198 [68194-17-2] 10µg/ml in isooctane	1 ml	507137	540
Organic standard PCB	PCB 207 [52663-79-3] 10µg/ml in isooctane	1 ml	507138	540
Organic standard PCB	PCB 209 [2051-24-3] 10µg/ml in isooctane	1 ml	507139	540
Organic standard PCB	PCB 209 [2051-24-3] 100µg/ml in isooctane	1 ml	507154	540
Organic Standard: PCB multielement mixture	7 components 10 µg/ml each in isooctane: PCB 28 [CAS:7012-37-5]; PCB 52 [CAS:35693-99-3]; PCB 101 [CAS:37680-73-2]; PCB 118 [CAS:31508-00-6]; PCB 138 [CAS:35065-28-2]; PCB 153 [CAS:35065-27-1]; PCB 180 [CAS:35065-29-3]	5 x 1 ml	507103	543

Organic Standard: PCB multielement mixture	2 components 100 µg/ml each in isooctane: PCB 30 [CAS:35693-92-6]; PCB 155 [CAS:33979-03-2]	1 ml	507609	543
Organic Standard: PCB multielement mixture	8 components 100 µg/ml each in hexane: PCB 28 [CAS:7012-37-5]; PCB 52 [CAS:35693-99-3]; PCB 101 [CAS:37680-73-2]; PCB 118 [CAS:31508-00-6]; PCB 138 [CAS:35065-28-2]; PCB 153 [CAS:35065-27-1]; PCB 180 [CAS:35065-29-3]; PCB 194 [CAS:35694-08-7]	1 ml	507679	543
Organic Standard: PCB multielement mixture	14 components 10 mg/l each in hexane: PCB 28 [CAS:7012-37-5]; PCB 31 [CAS:16606-02-3]; PCB 52 [CAS:35693-99-3]; PCB 101 [CAS:37680-73-2]; PCB 105 [CAS:32598-14-4]; PCB 118 [CAS:31508-00-6]; PCB 132 [CAS:38380-05-1]; PCB 138 [CAS:35065-28-2]; PCB 149 [CAS:38380-04-0]; PCB 153 [CAS:35065-27-1]; PCB 160 [CAS:41411-62-5]; PCB 163 [CAS:74472-44-9]; PCB 180 [CAS:35065-29-3]; PCB 193 [CAS:69782-91-8]	1.2 ml	507062	543
Organic Standard: PCB multielement mixture	19 components in ethyle acetate: PCB 18 [CAS:37680-65-2] 0.34mg/l; PCB 28 [CAS:7012-37-5] 0.6mg/l; PCB 52 [CAS:35693-99-3] 0.9mg/l; PCB 77 [CAS:32598-13-3] 2.2mg/l; PCB 81 [CAS:70362-50-4] 3.3mg/l; PCB 101 [CAS:37680-73-2] 2.28mg/l; PCB 105 [CAS:32598-14-4] 2.6mg/l; PCB 114 [CAS:74472-37-0] 9.6mg/l; PCB 118 [CAS:31508-00-6] 2.6mg/l; PCB 123 [CAS:65510-44-3] 2.7mg/l; PCB 126 [CAS:57465-28-8] 3mg/l; PCB 138 [CAS:35065-28-2] 6mg/l; PCB 153 [CAS:35065-27-1] 5mg/l; PCB 156 [CAS:38380-08-4] 5mg/l; PCB 157 [CAS:69782-90-7] 7mg/l; PCB 167 [CAS:52663-72-6] 8mg/l; PCB 169 [CAS:32774-16-6] 10mg/l; PCB 180 [CAS:35065-29-3] 10mg/l; PCB 189 [CAS:39635-31-9] 7mg/l	5 ml	506732	543
Organic Standard: PCB multielement mixture	14 components 1 mg/l each in hexane: PCB 28 [CAS:7012-37-5]; PCB 52 [CAS:35693-99-3]; PCB 101 [CAS:37680-73-2]; PCB 153 [CAS:35065-27-1]; PCB 138 [CAS:35065-28-2]; PCB 180 [CAS:35065-29-3] PCB 194 [CAS:35694-08-7]; 1,2,4-Trichlorobenzene [CAS:120-82-1]; Hexachloro-1, 3-butadiene [CAS:87-68-3]; Hexachlorobenzene [CAS:118-74-1]; Alpha-HCH [CAS:319-84-6]; Beta-HCH [CAS:319-85-7]; Gamma-HCH (Lindane) [CAS:58-89-9]; Delta-HCH [CAS:319-86-8]	5 ml	507889	543
Organic Standard: PCB multielement mixture	14 components 10 µg/ml each in isooctane according to EN 61619: PCB 18 [CAS:37680-65-2]; PCB 28 [CAS:7012-37-5]; PCB 31 [CAS:16606-02-3]; PCB 44 [CAS:41464-39-5]; PCB 52 [CAS:35693-99-3]; PCB 101 [CAS:37680-73-2]; PCB 118 [CAS:31508-00-6]; PCB 138 [CAS:35065-28-2]; PCB 149 [CAS:38380-04-0]; PCB 153 [CAS:35065-27-1]; PCB 170 [CAS:35065-30-6]; PCB 180 [CAS:35065-29-3]; PCB 194 [CAS:35694-08-7]; PCB 209 [CAS:2051-24-3]	10 ml	507115	543
Organic Standard: PCB multielement mixture	PCB 138 [35065-28-2] 50µg/ml in isooctane	10 ml	509144	543
Organic Standard: PCB multielement mixture	PCB 153 [35065-27-1] 50µg/ml in isooctane	10 ml	509145	543
Organic Standard: PCB multielement mixture	PCB 18 [37680-65-2] 50µg/ml in isooctane	10 ml	509146	543
Organic Standard: PCB multielement mixture	PCB 28 [7012-37-5] 50µg/ml in isooctane	10 ml	509147	543
Organic Standard: PCB multielement mixture	PCB 52 [35693-99-3] 50µg/ml in isooctane	10 ml	509148	543

## Standard Solutions for PAHs analysis

Description	Notes	Size	Code	Page
Organic Standard: PAH multielement mixture	15 components 50µg/ml each in acetonitrile: Acenaphthene [CAS:83-32-9]; Anthracene [CAS:120-12-7]; Benzo(a)anthracene [CAS:56-55-3]; Benzo(a)pyrene [CAS:50-32-8]; Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(g,h,i)perylene [CAS:191-24-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Chrysene [CAS:218-01-9]; Dibenzo(a,h)anthracene [CAS:53-70-3]; Fluoranthene [CAS:206-44-0]; Fluorene [CAS:86-73-7]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]; Naphthalene [CAS:91-20-3]; Phenanthrene [CAS:85-01-8]; Pyrene [CAS:129-00-0]	5 x 1 ml	507063	542
Organic Standard: PAH multielement mixture	13 components in acetonitrile/ acetone 95/5: Phenanthrene [CAS:85-01-8] 600µg/ml; Anthracene [CAS:120-12-7] 40µg/ml; Fluoranthene [CAS:206-44-0] 160µg/ml; Pyrene [CAS:129-00-0] 160µg/ml; Benzo(a)anthracene [CAS:56-55-3] 20µg/ml; Chrysene [CAS:218-01-9] 80µg/ml; (95/5) Benzo(b)fluoranthene [CAS:205-99-2] 20µg/ml; Benzo(k)fluoranthene [CAS:207-08-9] 10µg/ml; Benzo(j)fluoranthene [CAS:205-82-3] 20µg/ml; Benzo(a)pyrene [CAS:50-32-8] 20µg/ml; Dibenzo(a,h)anthracene [CAS:53-70-3] 10µg/ml; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5] 12µg/ml; Benzo(g,h,i)perylene [CAS:191-24-2] 20µg/ml	10 x 1 ml	506835	542
Organic Standard: PAH multielement mixture	19 components 100 µg/ml each in acetonitrile: Naphthalene [CAS:91-20-3]; Acenaphthylene [CAS:208-96-8]; 1-Methylnaphthalene [CAS:90-12-0]; 2-Methylnaphthalene [CAS:91-57-6]; Acenaphthene [CAS:83-32-9]; Fluorene [CAS:86-73-7]; Phenanthrene [CAS:85-01-8]; Anthracene [CAS:120-12-7]; Fluoranthene [CAS:206-44-0]; Pyrene [CAS:129-00-0]; 2-Methyl-Fluoranthene [CAS:33543-31-6]; Benzo(a)anthracene [CAS:56-55-3]; Chrysene [CAS:218-01-9]; Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Benzo(a)pyrene [CAS:50-32-8]; Benzo(g,h,i)perylene [CAS:191-24-2]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]; Dibenzo(a,h)anthracene [CAS:53-70-3]	1 ml	506878	542
Organic Standard: PAH multielement mixture	23 components 1 µg/ml each in methanol: Anthracene [CAS:120-12-7]; Fluoranthene [CAS:206-44-0]; Naphthalene [CAS:91-20-3]; Benzo(a)pyrene [CAS:50-32-8]; Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(g,h,i)perylene [CAS:191-24-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]; Biphenyl [CAS:92-52-4]; Acenaphthene [CAS:83-32-9]; Acenaphthylene [CAS:208-96-8]; Benzo(a)anthracene [CAS:56-55-3]; Chrysene [CAS:218-01-9]; Dibenzo(a,h)anthracene [CAS:53-70-3]; Fluorene [CAS:86-73-7]; 2-Methylnaphthalene [CAS:91-57-6]; 2-Methyl-Fluoranthene [CAS:33543-31-6]; Phenanthrene [CAS:85-01-8]; Pyrene [CAS:129-00-0]; 1-Benzothiophene [CAS:95-15-8]; Dibenzothiophene [CAS:132-65-0]; Benzo(e)pyrene [CAS:192-97-2]; Perylene [CAS:198-55-0]	1 ml	506938	542

Organic Standard: PAH multielement mixture	6 components in acetonitrile: Fluoranthene [CAS:206-44-0] 2mg/l; Benzo(b)fluoranthene [CAS:205-99-2] 2mg/l; Benzo(k)fluoranthene [CAS:207-08-9] 2mg/l; Benzo(a)pyrene [CAS:50-32-8] 2mg/l; Benzo(g,h,i)perylene [CAS:191-24-2] 10mg/l; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5] 10mg/l	1 ml	506979	542
Organic Standard: PAH multielement mixture	15 components in acetonitrile: Acenaphthene [CAS:83-32-9] 5mg/l; Fluorene [CAS:86-73-7] 5mg/l; Fluoranthene [CAS:206-44-0] 5mg/l; Benzo(a)anthracene [CAS:56-55-3] 5mg/l; Chrysene [CAS:218-01-9] 5mg/l; Benzo(b)fluoranthene [CAS:205-99-2] 5mg/l; Benzo(a)pyrene [CAS:50-32-8] 5mg/l; Dibenzo(a,h)anthracene [CAS:53-70-3] 5mg/l; Benzo(g,h,i)perylene [CAS:191-24-2] 10mg/l; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5] 10mg/l; 2-Methylnaphthalene [CAS:91-57-6] 10mg/l; 2-Methyl-Fluoranthene [CAS:33543-31-6] 10mg/l; Anthracene [CAS:120-12-7] 2mg/l; Benzo(k)fluoranthene [CAS:207-08-9] 2mg/l; Pyrene [CAS:129-00-0] 20mg/l	1 ml	506980	542
Organic Standard: PAH multielement mixture	19 components in Methanol: 2-Methylnaphthalene [CAS:91-57-6] 40mg/l; Anthracene [CAS:120-12-7] 20mg/l; Fluoranthene [CAS:206-44-0] 20mg/l; 2-Methyl-Fluoranthene [CAS:33543316] 20mg/l; Benzo(a)anthracene [CAS:56-55-3] 20mg/l; Benzo(b)fluoranthene [CAS:205-99-2] 20mg/l; Benzo(k)fluoranthene [CAS:207-08-9] 20mg/l; Benzo(a)pyrene [CAS:50-32-8] 20mg/l; Dibenzo(a,h)anthracene [CAS:53-70-3] 20mg/l; Benzo(g,h,i)perylene [CAS:191-24-2] 20mg/l; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5] 20mg/l; Benzo(b)chrysene [CAS:214-17-5] 2mg/l; Naphthalene [CAS:91-20-3] 40mg/l; Acenaphthene [CAS:83-32-9] 40mg/l; Fluorene [CAS:86-73-7] 20mg/l; Phenanthrene [CAS:85-01-8] 20mg/l; Pyrene [CAS:129-00-0] 20mg/l; Chrysene [CAS:218-01-9] 20mg/l; Acenaphthylene [CAS:208-96-8] 400mg/l	1 ml	507094	542
Organic Standard: PAH multielement mixture	15 components 1 µg/ml each in dichloromethane: Naphthalene [CAS:91-20-3]; Acenaphthene [CAS:83-32-9]; Fluorene [CAS:86-73-7]; Phenanthrene [CAS:85-01-8]; Anthracene [CAS:120-12-7]; Fluoranthene [CAS:206-44-0]; Pyrene [CAS:129-00-0]; Benzo(a)anthracene [CAS:56-55-3]; Chrysene [CAS:218-01-9] Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Benzo(a)pyrene [CAS:50-32-8]; Dibenzo(a,h)anthracene [CAS:53-70-3]; Benzo(g,h,i)perylene [CAS:191-24-2]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]	1.5 ml	507859	542
Organic Standard: PAH multielement mixture	15 components 1 µg/ml each in dichloromethane: Naphthalene [CAS:91-20-3]; Acenaphthene [CAS:83-32-9]; Fluorene [CAS:86-73-7]; Phenanthrene [CAS:85-01-8]; Anthracene [CAS:120-12-7]; Fluoranthene [CAS:206-44-0]; Pyrene [CAS:129-00-0]; Benzo(a)anthracene [CAS:56-55-3]; Chrysene [CAS:218-01-9] Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Benzo(a)pyrene [CAS:50-32-8]; Dibenzo(a,h)anthracene [CAS:53-70-3]; Benzo(g,h,i)perylene [CAS:191-24-2]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]	1.5 ml	507899	542

Organic Standard: PAH multielement mixture	19 components 10mg/l each in methanol: Naphthalene [CAS:91-20-3]; Acenaphthylene [CAS:208-96-8]; Acenaphthene [CAS:83-32-9]; Fluorene [CAS:86-73-7]; Phenanthrene [CAS:85-01-8]; Anthracene [CAS:120-12-7]; Fluoranthene [CAS:206-44-0]; Pyrene [CAS:129-00-0]; Benzo(a)anthracene [CAS:56-55-3]; Chrysene [CAS:218-01-9]; Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Benzo(a)pyrene [CAS:50-32-8]; Dibenzo(a,h)anthracene [CAS:53-70-3]; Benzo(g,h,i)perylene [CAS:191-24-2]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]; Benzo(e)pyrene [CAS:192-97-2]; 2-Methylnaphthalene [CAS:91-57-6]; 2-Methyl-Fluoranthene [CAS:33543-31-6]	10 ml	506821	542
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## Standard Solutions for Hydrocarbons analysis

Description	Notes	Size	Code	Page
Organic standard: Mixture for hydrocarbon analysis	5 components 5000µg/ml each in methanol: Benzene; Toluene; o-Xylene; m-Xylene; p-Xylene	1 ml	506736	546
Organic standard: Mixture for hydrocarbon analysis	14 components in methanol: 1,1-Dichloroethene 1000µg/ml; Dichloromethane 5000µg/ml; trans-1,2-Dichloroethene 5000µg/ml; 1,1-Dichloroethane 5000µg/ml; cis-1,2-Dichloroethene 5000µg/ml; 1,2-Dichloroethane 5000µg/ml; Chloroform 500µg/ml; 1,1,1-Trichloroethane 500µg/ml; Trichloroethene 500µg/ml; Bromodichloromethane 500µg/ml; Dibromochloromethane 500µg/ml; Tribromomethane 500µg/ml; Tetrachloromethane 100µg/ml; Tetrachloroethene 100µg/ml; Hydrocarbons Mixture Benzene; 1-Bromo-2-chloroethane; Chlorobenzene; 1,1-Dichloroethane; 1,2-dichloroethane	1 ml	506742	546
Organic standard: Mixture for hydrocarbon analysis	6 components 1000 µg/ml each in methanol: Benzene; Toluene; o-Xylene; m-Xylene; p-Xylene; Ethylbenzene	1 ml	507189	546
Organic standard: Mixture for hydrocarbon analysis	6 components 1000 µg/ml each in methanol: Trichloroethene; Tetrachloroethene; 1,2-Dichloroethane; Tetrachloromethane; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane	1 ml	507190	546
Organic standard: Mixture for hydrocarbon analysis	4 components 1000 µg/ml each in methanol: Tribromomethane; Chloroform; Bromodichloromethane; Dibromochloromethane	1 ml	507191	546
Organic standard: Mixture for hydrocarbon analysis	6 components 1000 µg/ml each in carbon disulfide: Benzene; Ethylbenzene; Toluene; m-Xylene; o-Xylene; p-Xylene	2 ml	507474	546
Organic standard: Mixture for hydrocarbon analysis	22 components 2500mg/Kg each 1-Bromo-2-chloroethane; Chlorobenzene; 1,1-Dichloroethane; 1,1-Dichloroethene; cis-1,2-Dichloroethene; trans-1,2-Dichloroethene; Dichloromethane; Pentachloroethane; 1,1,2,2-Tetrachloroethane; Tetrachloroethene; Tetrachloromethane; 1,1,2-Trichloroethane; Trichloroethene; Chloroprene; Chloromethane; Vinylchloride; 1,3-Butadiene; Chloroethane; 1,2-Dichlorobutane; Ethylene; Chloroform; Matrix: Benzene	100 ml	506614	546



## Standard Solutions for Method ISO 9377-2

For the determination of mineral oils according to UNI ISO 9377-2 "Determination of hydrocarbon oil index - Method using solvent extraction and gas chromatography", the current regulations impose specific mixtures of standard solutions. CARLO ERBA Reagents offers a complete range of such products, each supplied with an analysis certificate containing complete information on the composition and gravimetric verification performed in reference to NIST standards.

Description	Notes	Size	Code	Page
Organic standard: Mixture for hydrocarbon analysis	Standard quality control of two mineral oils in acetone	1 ml	506002	547
Organic standard: Mixture for hydrocarbon analysis	Mixture of mineral oil without additive 2 to 5 mg / ml each in hexane	1 ml	506010	547
Organic standard: Mixture for hydrocarbon analysis	Standard mixture of n-alkanes (C10 to C40 in pairs) of 50 mcg / ml each in hexane	1 ml	506020	547
Organic standard: Mixture for hydrocarbon analysis	2 component: 5g/l each of Mineral Oil [CAS:8042-47-5]; Diesel Oil in n-Hexane	5 ml	506012	547
Organic standard: Mixture for hydrocarbon analysis	N-tetracontane mixture (20 mg / l) and n-decane (20 mg / l) in hexane	5 ml	506040	547
Organic standard: Mixture for hydrocarbon analysis	Mixture of mineral oil without additive 2 to 1 mg / ml each in hexane	10 ml	506011	547
Organic standard: Mixture for hydrocarbon analysis	2 components: 5g/l each of Mineral Oil [CAS:8042-47-5]; Diesel Oil in n-Hexane	10 ml	506013	547
Organic standard: Mixture for hydrocarbon analysis	Standard mixture of n-alkanes (C10 to C40 in pairs) of 50 µg / ml each in hexane	10 ml	506021	547
Organic standard: Mixture for hydrocarbon analysis	Mother solution stearyl stearate 2 g / l in hexane	10 ml	506030	547

**COD ANALYSIS**

The COD (chemical oxygen demand) is the quantity of oxygen needed for the complete chemical oxidation of organic and inorganic compounds present in a water samples, especially for the control of pollutions levels. CARLO ERBA Reagents offers the strong oxidants and acids used for COD determination.

**Reagents for COD Analysis**

Description	Notes	Size	Code	Page
Ferroun 0.025 mol/l solution		100 ml	526751	354
Iron (II) ammonium sulfate 0.12N		1 l	526761	429
o-Phenantroline-Iron (II) sulphate solution in sulphuric acid		100 ml	E450043	569
Potassium dichromate 0.0417 mol/l (0.25N)		1 l	470451	593
Potassium dichromate 0.04 mol/l (0.24N) in 80 g/l HgSO <sub>4</sub>		1 l	526711	593
Potassium dichromate 0.04 mol/l (0.24N) in 80 g/l HgSO <sub>4</sub>		2.5 l	526712	593
Silver sulfate solution 0.7% in sulfuric acid		1 l	424191	659
Silver sulfate solution 0.7% in sulfuric acid		2.5 l	424192	659
Sulfuric acid with 10 g/l Silver sulfate		1 l	526605	742
Sulfuric acid with 10 g/l Silver sulfate		2.5 l	526606	742
Sulfuric acid with 6.6 g/l Silver sulfate		2.5 l	526602	743

 PHARMACEUTICAL PRODUCTION

CARLO ERBA Reagents has always carefully monitored developments in the quality of raw materials and reagents used in the pharmaceutical industry. The experience gained in over 160 years as a supplier of raw materials and excipients and the countless approvals issued by the most important pharmaceutical multinationals have allowed CARLO ERBA Reagents to become a benchmark in the pharmaceutical industry worldwide, distinguishing itself for its premium quality and reliability.

**Xcipharm™: excipient use**

Xcipharm™ is the new product range dedicated to excipients. We manufacture these products according to IPEC guidelines assuring a high level of quality for your excipients. We can adapt our offer to your needs with SKU sizes starting at 100 ml up to bulk quantity. We provide all of the necessary tests, certification and statements to make the registration of your products to the health authority easier.

QUALITY ASSURANCE

- Registration to the French Minister of Health (ANSM)
- Traceability of raw material and packaging
- Flow chart
- Change control

PROCESS

- Validated cleaning procedures and or dedicated equipment
- Labels consolidation
- Certificate of analysis with the name of the producer and the date of production of the raw material
- Stability studies
- Sample library of the raw material (1 year) and of the finish product (shelf life + 1 year)

DOCUMENTATION

- BSE/TSE statement
- GMO statement
- Residual solvents statement ICH Q3C
- Elemental Impurities ICH Q3D
- Risk assessment (2015/C95/02)

**ERBApharm®: raw material use**

CARLO ERBA Reagents has developed the ERBApharm® product line on the specific requests of the pharmaceutical market. Their specifications comply with the effective requirements of Pharmacopoeia or - in the absence of those requirements - with strict sales specifications. These products are designed to be used as raw materials and reagents for the production of active principles. The ERBApharm® line includes every kind of product: solvents, acids and basis, titrated solutions, organic and inorganic powders. The documents available for these products comply with the need of information related to their use (residual solvents, BSE/TSE declaration and GMO).

Description	Notes	Size	Code	Page
Acetic acid glacial		1 l	302016	133
Acetic acid glacial		2.5 l	302011	133
Acetic acid glacial		5 l	302014	133
Acetic acid glacial		30 kg	302015	133
Acetic acid glacial		200 kg	302013	133
Acetone		1 l	301505	140
Acetone		2.5 l	301506	140
Acetone		5 l	301502	140
Acetone		5 l	301503	140
Acetone		16 kg	301501	140
Acetone		22 kg	301504	140
Acetone		160 kg	301507	140
Aluminum chloride hexahydrate		1 kg	311257	153
Aluminum chloride hexahydrate		5 kg	311252	153
Aluminum chloride hexahydrate		25 kg	311256	153
Aluminum chloride hexahydrate		50 kg	311254	153
Aluminum potassium sulfate dodecahydrate		1 kg	312401	156
Aluminum potassium sulfate dodecahydrate		5 kg	312404	156
Aluminum potassium sulfate dodecahydrate		10 kg	312402	156

p-Aminobenzoic acid	100 g	391804	158
p-Aminobenzoic acid	1 kg	391805	158
Ammonia solution 28%	1 l	314861	161
Ammonia solution 28%	2 l	314863	161
Ammonia solution 28%	25 kg	314866	161
Ammonium chloride	1 kg	313957	169
Ammonium chloride	2.5 kg	313952	169
Ammonium chloride	5 kg	313956	169
Ammonium chloride	25 kg	313951	169
Ammonium chloride	50 kg	313954	169
Benzalkonium chloride	1 kg	322737	197
Benzalkonium chloride	5 kg	322738	197
Benzoic acid	1 kg	302087	199
Benzoic acid	5 kg	302089	199
Benzoic acid	25 kg	302082	199
Benzyl alcohol	1 l	308131	200
Benzyl alcohol	2.5 l	308132	200
Benzyl alcohol	23 kg	308138	200
Benzyl alcohol	200 l	308137	200
Benzyl benzoate	1 l	323101	201
Benzyl benzoate	2.5 l	323102	201
Boric acid	25 kg	302185	205
Boric acid	1 kg	302177	206
Boric acid	5 kg	302179	206
Boric acid	25 kg	302178	206
Caffeine anhydrous	500 g	326356	234
Caffeine anhydrous	1 kg	326357	234
Caffeine anhydrous	25 kg	326358	234
Calcium acetate anhydrous	1 kg	326511	236
Calcium acetate anhydrous	5 kg	326512	236
Calcium acetate anhydrous	25 kg	326513	236
Calcium carbonate	1 kg	327101	237
Calcium carbonate	25 kg	327105	237
Calcium chloride dihydrate	1 kg	327607	239
Calcium chloride dihydrate	5 kg	327609	239
Calcium chloride dihydrate	25 kg	327603	239
Calcium chloride hexahydrate	1 kg	327507	239
Calcium chloride hexahydrate	5 kg	327509	239
Calcium gluconate	1 kg	330608	240
Calcium gluconate	5 kg	330609	240
Calcium gluconate	25 kg	330601	240
Calcium hydroxide	1 kg	331007	241
Calcium hydroxide	5 kg	331008	241
Calcium hydroxide	25 kg	331003	241
Calcium lactate	1 kg	331407	241
Calcium lactate	5 kg	331408	241
Calcium pantothenate	100 g	331602	242
Calcium phosphate dibasic dihydrate	1 kg	330307	243
Calcium phosphate dibasic dihydrate	25 kg	330303	243
Calcium phosphate tribasic	1 kg	330407	244

Calcium phosphate tribasic	5 kg	330409	244
Calcium phosphate tribasic	25 kg	330403	244
Calcium stearate	2.5 kg	332262	244
Calcium stearate	10 kg	332261	244
Calcium stearate	25 kg	332265	244
Calcium sulfate dihydrate	5 kg	331752	244
Calcium sulfate dihydrate	25 kg	331751	244
Camphor natural	500 g	332356	246
Camphor synthetic	500 g	332406	246
Camphor synthetic	5 kg	332401	246
Camphor synthetic	25 kg	332402	246
Castor oil	1 l	356351	249
Castor oil	5 l	356352	249
Castor oil	28 kg	356353	249
Cetyl alcohol	1 kg	308357	255
Cetyl alcohol	5 kg	308358	255
Cetyl alcohol	25 kg	308359	255
Chlorobutanol hemihydrate	1 kg	301357	259
Chlorobutanol hemihydrate	5 kg	301356	259
Chloroform	1 l	334351	262
Chloroform	2.5 l	334353	262
Chloroform	25 kg	334356	262
Chloroform	200 l	529301	262
Chloroform	250 kg	334354	262
Citric acid anhydrous	500 g	302486	269
Citric acid anhydrous	1 kg	302487	269
Citric acid anhydrous	5 kg	302485	269
Citric acid anhydrous	25 kg	302488	269
Citric acid anhydrous	50 kg	302484	269
Citric acid monohydrate	1 kg	302557	269
Citric acid monohydrate	5 kg	302559	269
Citric acid monohydrate	25 kg	302551	269
Citric acid monohydrate	50 kg	302554	269
Citric acid monohydrate	1 kg	302507	270
Citric acid monohydrate	5 kg	302509	270
Citric acid monohydrate	25 kg	302501	270
Citric acid monohydrate	50 kg	302504	270
Copper (II) sulfate pentahydrate	1 kg	364757	281
Copper (II) sulfate pentahydrate	5 kg	364759	281
Copper (II) sulfate pentahydrate	25 kg	364752	281
Di-n-butylphthalate	26 kg	325701	297
Dichloromethane, stab. with Ethanol	1 l	354501	303
Dichloromethane, stab. with Amylene	1 l	337331	304
Dichloromethane, stab. with Amylene	2.5 l	337333	304
Dichloromethane, stab. with Amylene	25 l	337335	304
Dichloromethane, stab. with Amylene	200 l	337337	304
Dichloromethane, stab. with Ethanol	2.5 l	525320	304
Dichloromethane, stab. with Ethanol	200 l	525321	304
Diethanolamine	215 kg	337801	306
Diethyl ether	1 l	340751	309



Diethyl ether		40 x 100 g	340731	309
Diethyl ether		20 kg	340752	309
Diethyl ether		140 kg	340759	309
Diethyl phthalate		1 l	338112	310
Diethyl phthalate		2.5 l	338115	310
Diethyl phthalate		30 kg	338113	310
Diethyl phthalate		200 l	338114	310
Ethanol absolute anhydrous		1 l	529121	333
Ethanol absolute anhydrous	Only for Italian market	2.5 l	308661	333
Ethanol absolute anhydrous	Only for Italian market	2.5 l	308662	333
Ethanol absolute anhydrous		2.5 l	3086612	333
Ethanol absolute anhydrous		2.5 l	3086622	333
Ethanol absolute anhydrous		5 l	529122	333
Ethanol absolute anhydrous	Untaxed, for Italian license holders only	5 l	5291222	333
Ethanol absolute anhydrous		10 l	529124	333
Ethanol absolute anhydrous		25 l	308664	333
Ethanol absolute anhydrous		25 l	308667	333
Ethanol absolute anhydrous	Untaxed, for Italian license holders only	25 l	3086642	333
Ethanol absolute anhydrous		200 l	308663	333
Ethanol absolute anhydrous		200 l	529125	333
Ethanol 96°		5 l	524135	335
Ethanol 96°		25 l	524132	335
Ethanol 96°	Only for Italian market	1 l	308644	336
Ethanol 96°	Only for Italian market	1 l	308647	336
Ethanol 96°		1 l	3086442	336
Ethanol 96°		1 l	3086472	336
Ethanol 96°	Only for Italian market	2.5 l	308641	336
Ethanol 96°	Only for Italian market	2.5 l	308649	336
Ethanol 96°		2.5 l	3086412	336
Ethanol 96°		2.5 l	3086492	336
Ethanol 96°		5 l	529141	336
Ethanol 96°	Untaxed, for Italian license holders only	5 l	5291412	336
Ethanol 96°		10 l	308646	336
Ethanol 96°	Untaxed, for Italian license holders only	10 l	3086462	336
Ethanol 96°		25 l	308645	336
Ethanol 96°	Untaxed, for Italian license holders only	25 l	3086452	336
Ethanol 96°		27 l	308648	336
Ethanol 96°	Untaxed, for Italian license holders only	27 l	3086482	336
Ethanol 96°		200 l	308643	336
Ethanol 70% v/v	Sold by box: 20 bottles + 4 sprayers	20 x 500 ml	529187000	336
Ethanol 70% v/v		5 l	529189	336
Ethanol 70% v/v		200 l	529183	336
Ethanol 70% v/v	Sold by box 6 bottles + 3 sprayers	1 l	529184	337
Ethanol 70% v/v		1 l	529184000	337
Ethyl acetate		1 l	341506	342
Ethyl acetate		2.5 l	341503	342
Ethyl acetate		24 kg	341502	342
Ethyl acetate		25 l	529221	342
Ethyl acetate		200 l	529222	342
Ethylenediaminetetraacetic acid		5 kg	303251	344

Ethylenediaminetetraacetic acid	25 kg	303252	344
Ethylenediaminetetraacetic acid disodium salt	1 kg	303201	345
Ethylenediaminetetraacetic acid disodium salt	5 kg	303203	345
Ethylenediaminetetraacetic acid disodium salt	25 kg	303202	345
Ethylenediaminetetraacetic acid disodium salt	1 kg	303227	346
Ethylenediaminetetraacetic acid disodium salt	5 kg	303226	346
Ethylenediaminetetraacetic acid disodium salt	25 kg	303225	346
Formaldehyde 35% w/w	1 l	310351	359
Formaldehyde 35% w/w	2.5 l	310356	359
Formaldehyde 35% w/w	5 l	310358	359
Formaldehyde 35% w/w	10 kg	310349	359
Formaldehyde 35% w/w	30 kg	310348	359
Formaldehyde 35% w/w	55 kg	310355	359
Formic acid 99%	1 l	303911	363
Formic acid 99%	2.5 l	303912	363
Formic acid 99%	30 kg	303913	363
D(+)-Glucose anhydrous	1 kg	346987	370
D(+)-Glucose anhydrous	5 kg	346989	370
D(+)-Glucose anhydrous	25 kg	346983	370
D(+)-Glucose monohydrate	1 kg	346971	371
D(+)-Glucose monohydrate	5 kg	346972	371
D(+)-Glucose monohydrate	25 kg	346973	371
Glycerol (30°Bé)	1 l	346161	373
Glycerol (30°Bé)	2.5 l	346165	373
Glycerol (30°Bé)	5 l	346162	373
Glycerol (30°Bé)	35 kg	346164	373
Glycerol (30°Bé)	250 kg	346167	373
Glycine	1 kg	346207	374
Glycine	5 kg	346205	374
Glycine	25 kg	346208	374
Gum arabic	1 kg	347107	377
Hydrochloric acid 37%	1 l	302621	395
Hydrochloric acid 37%	2.5 l	302626	395
Hydrochloric acid 37%	5 l	302643	395
Hydrochloric acid 37%	10 l	302624	395
Hydrochloric acid 37%	25 kg	302623	395
Hydrochloric acid 37%	40 kg	302622	395
Hydrochloric acid 37%	55 kg	302627	395
Hydrochloric acid 37%	220 kg	302625	395
Hydrochloric acid 10%	10 kg	302591	400
Hydrogen peroxide solution 35%	2.5 l	307742	413
Hydrogen peroxide solution 30%	25 kg	307685	415
Hydrogen peroxide solution 3%	1 l	307671	416
Hydrogen peroxide solution 3%	50 kg	307678	416
Iodine	100 g	348454	424
Iodine	250 g	348455	424
Iodine	1 kg	348457	424
Iodine	5 kg	348451	424
Iodine	20 kg	348452	424
Iron (II) sulfate heptahydrate	1 kg	344957	431

Iron (II) sulfate heptahydrate	5 kg	344959	431
L(+)-Lactic acid	1 l	304652	452
L(+)-Lactic acid	2.5 l	304651	452
L(+)-Lactic acid	25 kg	304653	452
Lactose monohydrate	1 kg	348707	453
Lactose monohydrate	5 kg	348708	453
Lactose monohydrate	10 kg	348702	453
Lactose monohydrate	25 kg	348703	453
Lanolin anhydrous	1 kg	347357	453
Lanolin anhydrous	5 kg	347359	453
Magnesium carbonate basic	1 kg	349257	470
Magnesium carbonate basic	5 kg	349279	470
Magnesium carbonate basic	25 kg	349272	470
Magnesium chloride hexahydrate	1 kg	349357	471
Magnesium chloride hexahydrate	5 kg	349359	471
Magnesium chloride hexahydrate	25 kg	349355	471
Magnesium hydroxide	1 kg	349455	472
Magnesium oxide heavy	1 kg	349655	473
Magnesium oxide heavy	5 kg	349656	473
Magnesium oxide heavy	25 kg	349653	473
Magnesium stearate	2.5 kg	350032	474
Magnesium stearate	20 kg	350033	474
Magnesium stearate	25 kg	350035	474
Magnesium sulfate heptahydrate	1 kg	349852	475
Magnesium sulfate heptahydrate	5 kg	349859	475
Magnesium sulfate heptahydrate	25 kg	349851	475
Maize starch	1 kg	313071	476
Maize starch	5 kg	313072	476
Maize starch	25 kg	313073	476
Maleic acid	500 g	407266	477
Maleic acid	5 kg	407261	477
Maleic acid	25 kg	407263	477
D-Mannitol	1 kg	352051	482
D-Mannitol	5 kg	352052	482
D-Mannitol	25 kg	352053	482
L-Menthol	50 g	352103	483
L-Menthol	500 g	352106	483
Methanol	1 l	309204	492
Methanol	2.5 l	309203	492
Methanol	25 l	309201	492
Methanol	200 l	529100	492
Methyl 4-hydroxybenzoate	1 kg	354007	499
Methyl 4-hydroxybenzoate	5 kg	354008	499
Methyl salicylate	1 l	354152	505
Methyl salicylate	25 kg	354155	505
Nicotinamide	100 g	392304	525
Nicotinamide	1 kg	392307	525
Oil refined of almonds	1 l	356251	539
Orthophosphoric acid 85%	1 l	304061	548
Orthophosphoric acid 85%	2.5 l	304062	548

Orthophosphoric acid 85%	40 kg	304063	548
Paraffin oil	1 l	356601	555
Paraffin oil	5 l	356608	555
Paraffin oil	23 kg	356603	555
Paraffin oil	185 kg	356607	555
Paraffin white soft	1 kg	388407	556
Paraffin white soft	5 kg	388409	556
Phenol	1 kg	343407	570
2-Phenylethanol	1 l	529022	573
2-Phenylethanol	2.4 l	529021	573
Potassium acetate	1 kg	358907	583
Potassium acetate	5 kg	358908	583
Potassium acetate	25 kg	358903	583
Potassium bromide	1 kg	359707	586
Potassium bromide	5 kg	359702	586
Potassium chloride	1 kg	360107	587
Potassium chloride	5 kg	360109	587
Potassium chloride	25 kg	360106	587
Potassium chloride	50 kg	360104	587
Potassium citrate tribasic monohydrate	500 g	359956	591
Potassium citrate tribasic monohydrate	1 kg	359957	591
Potassium citrate tribasic monohydrate	2.5 kg	359958	591
Potassium citrate tribasic monohydrate	5 kg	359959	591
Potassium hydroxide, flakes	25 kg	362201	599
Potassium hydroxide, flakes	25 kg	362202	599
Potassium hydroxide, pellets	1 kg	362237	600
Potassium hydroxide, pellets	5 kg	362239	600
Potassium hydroxide, pellets	25 kg	362235	600
Potassium iodide	250 g	362405	607
Potassium iodide	1 kg	362407	607
Potassium iodide	5 kg	362409	607
Potassium iodide	10 kg	362403	607
Potassium iodide	25 kg	362402	607
Potassium metabisulfite	1 kg	362627	609
Potassium metabisulfite	5 kg	362629	609
Potassium metabisulfite	10 kg	362622	609
Potassium metabisulfite	25 kg	362623	609
Potassium nitrate	1 kg	363007	610
Potassium nitrate	5 kg	363009	610
Potassium nitrate	25 kg	363002	610
Potassium permanganate	1 kg	363107	611
Potassium permanganate	5 kg	363109	611
Potassium permanganate	25 kg	363101	611
Potassium phosphate monobasic	1 kg	361507	615
Potassium phosphate monobasic	5 kg	361509	615
Potassium phosphate monobasic	25 kg	361503	615
Potassium sodium tartrate tetrahydrate	1 kg	363457	617
Potassium sodium tartrate tetrahydrate	5 kg	363459	617
Propan-2-ol	1 l	309501	626
Propan-2-ol	2.5 l	309505	626

Propan-2-ol	5 l	529165	626
Propan-2-ol	10 l	309506	626
Propan-2-ol	25 l	309504	626
Propan-2-ol	25 l	309507	626
Propan-2-ol	200 l	309500	626
Propan-2-ol	200 l	309509	626
Propan-2-ol 70%	5 l	524195	626
Propyl p-hydroxybenzoate	50 g	363953	629
Propyl p-hydroxybenzoate	500 g	363956	629
Propylene glycol	1 l	346701	630
Propylene glycol	2.5 l	346703	630
Propylene glycol	60 kg	346705	630
Propylene glycol	200 kg	346708	630
Rice starch	1 kg	313107	640
Rice starch	2.5 kg	313108	640
Rice starch	5 kg	313109	640
Rice starch	25 kg	313102	640
Salicylic acid	1 kg	306381	643
Salicylic acid	1 kg	306377	643
Silver nitrate	100 g	320904	655
Silver nitrate	1 kg	320907	655
Sodium acetate anhydrous	1 kg	366377	662
Sodium acetate anhydrous	5 kg	366372	662
Sodium acetate anhydrous	25 kg	366371	662
Sodium acetate trihydrate	1 kg	366207	663
Sodium acetate trihydrate	5 kg	366209	663
Sodium acetate trihydrate	25 kg	366205	663
Sodium alginate	100 g	366551	663
Sodium alginate	1 kg	366552	663
Sodium alginate	5 kg	366553	663
Sodium benzoate	1 kg	366757	665
Sodium benzoate	5 kg	366759	665
Sodium benzoate	25 kg	366754	665
Sodium bicarbonate	1 kg	366908	666
Sodium bicarbonate	5 kg	366909	666
Sodium bicarbonate	25 kg	366902	666
Sodium bicarbonate	50 kg	366904	666
Sodium bromide	1 kg	367357	667
Sodium bromide	5 kg	367359	667
Sodium carbonate anhydrous	1 kg	367707	668
Sodium carbonate anhydrous	5 kg	367703	668
Sodium carbonate anhydrous	25 kg	367705	668
Sodium carbonate anhydrous	50 kg	367704	668
Sodium carbonate decahydrate	1 kg	367608	668
Sodium carbonate decahydrate	5 kg	367609	668
Sodium carbonate decahydrate	25 kg	367601	668
Sodium carbonate monohydrate	1 kg	367691	669
Sodium carbonate monohydrate	5 kg	367692	669
Sodium carbonate monohydrate	25 kg	367693	669
Sodium carbonate monohydrate	50 kg	367694	669



Sodium chloride	10 kg	368281	671
Sodium chloride	1 kg	368257	671
Sodium chloride	5 kg	368259	671
Sodium chloride	25 kg	368253	671
Sodium citrate dibasic sesquihydrate	1 kg	367951	672
Sodium citrate tribasic anhydrous	1 kg	368107	672
Sodium citrate tribasic anhydrous	20 kg	368102	672
Sodium citrate tribasic dihydrate	1 kg	368057	673
Sodium citrate tribasic dihydrate	5 kg	368058	673
Sodium citrate tribasic dihydrate	10 kg	368052	673
Sodium citrate tribasic dihydrate	25 kg	368051	673
Sodium citrate tribasic dihydrate	50 kg	368054	673
Sodium glycerophosphate pentahydrate	1 kg	369447	676
Sodium glycerophosphate pentahydrate	5 kg	369449	676
Sodium hydroxide, pearls	1 kg	369743	678
Sodium hydroxide, pearls	5 kg	369741	678
Sodium hydroxide, pearls	25 kg	369742	678
Sodium hydroxide, pearls	25 kg	369744	678
Sodium hydroxide, pellets	1 kg	369777	679
Sodium hydroxide, pellets	5 kg	369772	679
Sodium hydroxide, pellets	20 kg	369771	679
Sodium hydroxide, pellets	25 kg	369774	679
Sodium iodide	250 g	370305	693
Sodium iodide	1 kg	370307	693
Sodium iodide	5 kg	370309	693
Sodium metabisulfite	1 kg	370751	694
Sodium metabisulfite	2.5 kg	370752	694
Sodium metabisulfite	25 kg	370753	694
Sodium nitrite	1 kg	371901	696
Sodium nitrite	5 kg	371902	696
Sodium nitrite	25 kg	371903	696
Sodium phosphate dibasic anhydrous	1 kg	369212	700
Sodium phosphate dibasic anhydrous	5 kg	369213	700
Sodium phosphate dibasic anhydrous	25 kg	369211	700
Sodium phosphate dibasic anhydrous	25 kg	369275	700
Sodium phosphate dibasic dihydrate	5 kg	369185	701
Sodium phosphate dibasic dodecahydrate	1 kg	369158	702
Sodium phosphate dibasic dodecahydrate	5 kg	369159	702
Sodium phosphate dibasic dodecahydrate	25 kg	369152	702
Sodium phosphate dibasic dodecahydrate	50 Kg	369154	702
Sodium phosphate monobasic dihydrate	1 kg	369138	703
Sodium phosphate monobasic dihydrate	5 kg	369139	703
Sodium phosphate monobasic dihydrate	25 kg	369132	703
Sodium phosphate monobasic monohydrate	1 kg	369143	703
Sodium phosphate monobasic monohydrate	5 kg	369141	703
Sodium phosphate monobasic monohydrate	25 kg	369142	703
Sodium salicylate	1 kg	373607	705
Sodium salicylate	5 kg	373608	705
Sodium salicylate	25 kg	373603	705
Sodium sulfate anhydrous	1 kg	375713	707

Sodium sulfate anhydrous	25 kg	375716	707
Sodium sulfite anhydrous	1 kg	376006	708
Sodium sulfite anhydrous	2.5 kg	376008	708
Sodium sulfite anhydrous	5 kg	376009	708
Sodium sulfite anhydrous	10 kg	376002	708
Sodium sulfite anhydrous	25 kg	376003	708
Sodium tetraborate decahydrate	1 kg	367207	710
Sodium tetraborate decahydrate	5 kg	367209	710
Sodium tetraborate decahydrate	25 kg	367201	710
Sodium thiosulfate pentahydrate	1 kg	377907	711
Sodium thiosulfate pentahydrate	5 kg	377909	711
Sodium thiosulfate pentahydrate	25 kg	377901	711
Sorbitol (no crystallizable) solution 70%	1 l	379021	715
Sorbitol (no crystallizable) solution 70%	5 l	379022	715
Stearic acid	2.5 kg	307112	722
Stearic acid	25 kg	307115	722
D(+)-Sucrose	1 kg	365157	726
D(+)-Sucrose	5 kg	365158	726
D(+)-Sucrose	25 kg	365152	726
Sulfuric acid 96%	1 l	306651	733
Sulfuric acid 96%	2.5 l	306657	733
Sulfuric acid 96%	50 kg	306653	733
Talc	1 kg	382107	744
Talc	5 kg	382109	744
Talc	25 kg	382105	744
Tannic acid	1 kg	307157	744
Tannic acid	5 kg	307152	744
Tannic acid	25 kg	307153	744
L(+) Tartaric Acid	1 kg	307357	745
L(+) Tartaric Acid	5 kg	307359	745
L(+) Tartaric Acid	1 kg	307307	745
L(+) Tartaric Acid	5 kg	307309	745
L(+) Tartaric Acid	25 kg	307301	745
Thymol	250 g	384205	757
Thymol	1 kg	384201	757
Thymol	2.5 kg	384202	757
Titanium dioxide	1 kg	385751	764
Titanium dioxide	5 kg	385752	764
Titanium dioxide	25 kg	385753	764
Triethanolamine	1 l	386301	772
Triethanolamine	2.5 l	386303	772
Triethanolamine	30 kg	386304	772
Triethanolamine	220 kg	386305	772
Tris (hydroxymethyl)-aminomethane	25 kg	313441	777
Vanillin	100 g	388104	784
Vanillin	1 kg	388107	784
Vanillin	5 kg	388108	784
Vanillin	10 kg	388102	784
Water purified	1 l	307606	788
Water purified	5 l	307601	788

Water purified	10 l	307602	788
Water purified	25 kg	307603	788
Water purified	200 l	307604	788
Zinc oxide	1 kg	393507	801
Zinc oxide	5 kg	393509	801
Zinc oxide	25 kg	393503	801
Zinc stearate	1 kg	395451	801
Zinc stearate	10 kg	395452	801
Zinc sulfate heptahydrate	1 kg	394007	802
Zinc sulfate heptahydrate	5 kg	394009	802
Zinc sulfate heptahydrate	25 kg	394001	802

## ERBApharm®: Titrated and Diluted solutions manufactured from raw material according to Ph.Eur

CARLO ERBA Reagents provides a range of titrated and diluted solutions described (or not) in the monographs of European Pharmacopoeia. If there are not listed in it, CARLO ERBA Reagents is able to propose you the solution you need manufactured with raw materials conform to the required Pharmacopoeia, and with same guarantee of quality in terms of traceability, documentation and analysis. A feasibility study is carried out to meet your requirements.

Description	Notes	Size	Code	Page
Ethanol 50% v/v		5 l	529261	337
Hydrochloric acid 5%		10 l	PS0864/41	400
Hydrochloric acid 6 mol/l (6N)		25 l	528651	401
Hydrochloric acid 4 mol/l (4N)		1 l	528681	402
Hydrochloric acid 2 mol/l (2N)		1 l	528691	403
Hydrochloric acid 1 mol/l (1N)		1 l	528583	404
Hydrochloric acid 1 mol/l (1N)		5 l	528584	404
Hydrochloric acid 0.1 mol/l (0.1N)		1 l	528661	406
Hydrochloric acid 0.1 mol/l (0.1N)		5 l	528662	406
Propan-2-ol 70%		1 l	524182	627
Propan-2-ol 70%	6 units / box	1 l	524183	627
Propan-2-ol 70%		2.5 l	524184	627
Propan-2-ol 70%		5 l	524181	627
Sodium hydroxide solution 30%		1 l	369704	682
Sodium hydroxide solution 30%		20 l	369702	682
Sodium hydroxide solution 30%		10 kg	369701000	682
Sodium hydroxide solution 30%		200 l	369706	682
Sodium hydroxide solution 20% w/w		1 l	480631	683
Sodium hydroxide 6 mol/l (6N)		2 l	524651	684
Sodium hydroxide 3 mol/l (3N)		500 ml	524732	685
Sodium hydroxide 2 mol/l (2N)		1 l	524671	686
Sodium hydroxide 1 mol/l (1N)		1 l	524761	687
Sodium hydroxide 1 mol/l (1N)		1 l	524621	687
Sodium hydroxide 0.25 mol/l (0.25N)		5 l	369812	689
Sodium hydroxide 0.1 mol/l (0.1N)		1 l	524631	690

**PHARMACEUTICAL QUALITY CONTROL**

The European Pharmacopoeia defines, in chapters "2. Methods of analysis" and "4. Reagents", the procedures and products suitable for the analysis of pharmaceutical raw materials or finished products.

CARLO ERBA Reagents offers a wide range of products, prepared according to the instructions set forth in the European Pharmacopoeia currently in place, which meet the specific needs of analysis and quality control laboratories in the pharmaceutical industry.

Our solutions are ready to use or to be diluted immediately prior to use, allowing significant time savings with guaranteed conformity with the European Pharmacopoeia (Ph.Eur.) requirements. To facilitate their identification, our reagents are named as indicated in the Pharmacopoeia and coded with their specific reference number preceded by the number 61.

The following is guaranteed for all our pharmacopoeia reagents and solutions:

- Shelf life ranging from 2 to 24 months
- No particular storage or transport conditions
- Certificate of analysis with the lot number, expiration date and declared conformity with the European Pharmacopoeia requirements

These reagents and solutions are to be used during the analysis of pharmaceutical raw materials or finished products, and therefore should not be confused with the pharmacopoeia products.

**USP Reagents**

These reagents are specially intended for use in testing USP and monographs. These solutions are produced according USP specifications using USP reagent quality components.

Description	Notes	Size	Code	Page
Ammonia solution 6N		1 l	617000151	164
Arsenic trioxide solution	Arsenic trioxide stock solution	100 ml	617000001	185
Barium chloride 30 g/l	Barium chloride TS	100 ml	617000161	194
Bromine solution	Bromine TS	100 ml	617000141	210
Cobalt (II) chloride in solution	Cobaltous Chloride CS	100 ml	616001028	272
Cobalt (II) chloride in solution	Cobaltous Chloride CS	500 ml	616001057	272
Copper (II) sulphate solution	Cupric sulfate CS	100 ml	616001038	281
Copper (II) sulphate solution	Cupric sulfate CS	500 ml	616001037	281
Degree of coloration of liquids: primary solutions	Yellow primary solution	100 ml	612002100	291
Degree of coloration of liquids: primary solutions	Red primary solution	100 ml	612002200	291
Degree of coloration of liquids: primary solutions	Blue primary solution	100 ml	612002300	291
Hydrochloric acid 1 mol/l (1N)		1 l	617000191	404
Iron chloride in solution	Ferric Chloride CS	100 ml	616001048	434
Iron chloride in solution	Ferric Chloride CS	500 ml	616001047	434
Lead (II) acetate cotton	Lead acetate cotton	10 g	617000301	457
Lead (II) nitrate	Stock Solution TS	100 ml	617000321	458
Methyl red solution	Methyl red solution TS	100 ml	617000111	504
Mixtures for residual solvents analysis	5 elements (Class 1): Benzene 10mg/ml; Tetrachloromethane (Carbon tetrachloride) 20mg/ml; 1,2-Dichloroethane 25mg/ml; 1,1-Dichloroethene 40mg/ml; 1,1,1-Trichloroethane 50mg/ml; Matrix: Dimethylsulphoxide	1 ml	507692	509
Mixtures for residual solvents analysis	16 elements (Class 2): Acetonitrile 2.05mg/ml; Chlorobenzene 1.8mg/ml; Cumene 0.34mg/ml; Cyclohexane 19.4mg/ml; cis-1,2-Dichloroethene 4.7mg/ml; trans-1,2-Dichloroethene 4.7mg/ml; 1,4-Dioxan 1.9mg/ml; Ethylbenzene 1.84mg/ml; Methanol 15mg/ml; Methylcyclohexane 5.9mg/ml; Dichloromethane 3mg/ml; Tetrahydrofuran 3.6mg/ml; Toluene 4.45mg/ml; m-Xylene 6.51mg/ml; o-Xylene 0.98mg/ml; p-Xylene 1.52mg/ml; Matrix: Dimethylsulphoxide	1 ml	507693	509
Mixtures for residual solvents analysis	8 elements (Class 2): Chloroform 60µg/ml; 1,2-Dimethoxyethane 100µg/ml; n-Hexane 290µg/ml; 2-Hexanone 50µg/ml; Nitromethane 50µg/ml; Pyridine 200µg/ml; 1,2,3,4-Tetrahydronaphthalene (Tetralin) 100µg/ml; Trichloroethene 80µg/ml; Matrix: Dimethylsulphoxide	1 ml	507694	509

Phenolphthalein solution 1% in ethanol	Phenolphthalein TS	100 ml	617000131	571
Silver nitrate solution	Silver nitrate TS	1 l	617000201	659
Sodium hydroxide 1 mol/l (1N)		500 ml	617000121	687
Thioacetamide	Thioacetamide TS	100 ml	617000211	754
Titanium trichloride-sulfuric acid reagent	Titanium Trichloride-Sulfuric Acid TS	100 ml	617000221	765

### Elemental Impurities - Multielement Standard for ICP analysis according to USP

Description	Notes	Size	Code	Page
Multielement standard for ICP	4 elements: Cd 5mg/l; Pb 10mg/l; As 15mg/l; Hg 15mg/l. Matrix: 7% HNO <sub>3</sub>	100 ml	506120	513
Multielement standard for ICP	8 elements: Cd 25mg/l; Pb 5mg/l; As 1.5mg/l; Hg 15mg/l; Mo 100mg/l; Ni 500mg/l; V 100mg/l; Cu 1000mg/l. Matrix: 7% HNO <sub>3</sub>	100 ml	506110	513
Multielement standard for ICP	Precious metals - 6 elements: Ir 100 mg/l, Pt 100 mg/l; Os 100 mg/l; Rh 100 mg/l; Pd 100 mg/l; Ru 100 mg/l. Matrix: 15% HCl	100 ml	506150	513
Multielement standard for ICP	Precious metals - 6 elements: Ir 10 mg/l, Pt 10 mg/l; Os 10 mg/l; Rh 10 mg/l; Pd 10 mg/l; Ru 10 mg/l. Matrix: 15% HCl	100 ml	506130	513
Multielement standard for ICP	8 elements: Cd 2.5mg/l; Pb 5mg/l; As 1.5mg/l; Hg 1.5mg/l; Mo 10mg/l; Ni 50mg/l; V 10mg/l; Cu 100mg/l. Matrix: 7% HNO <sub>3</sub>	100 ml	506140	513

### Ph. Eur. Reagents, Chapter 2.2.1: Clarity and degree of opalescence of liquids

Description	Notes	Size	Code	Page
Primary opalescent suspension	Formazin suspension	100 ml	612201100	621
Primary opalescent suspension	Formazin suspension	1 l	612201101	621

### Ph. Eur. Reagents, Chapter 2.2.2: Degree of coloration of liquids

Description	Notes	Size	Code	Page
Degree of coloration of liquids: primary solutions	Yellow primary solution	100 ml	612202100	290
Degree of coloration of liquids: primary solutions	Red primary solution	100 ml	612202200	290
Degree of coloration of liquids: primary solutions	Blue primary solution	100 ml	612202300	290
Degree of coloration of liquids: standard solutions	Standard solution B (brown)	125 ml	612202510	291
Degree of coloration of liquids: standard solutions	Standard solution BY (brownish-yellow)	125 ml	612202520	291
Degree of coloration of liquids: standard solutions	Standard solution Y (yellow)	125 ml	612202530	291
Degree of coloration of liquids: standard solutions	Standard solution GY (greenish-yellow)	125 ml	612202540	291
Degree of coloration of liquids: standard solutions	Standard solution R (red)	125 ml	612202550	291
Hydrochloric acid, dilute	Dilution matrix HCl 10g/L	1 l	612202400	409



## Ph. Eur. Reagents, Chapter 2.2.25: Absorption spectrophotometry, ultraviolet and visible

The European Pharmacopoeia defines in its "Analytical Methods", chapter 2.2.25, the calibration of spectrophotometers absorption in the ultraviolet and visible.

For each parameter, the method of analysis recommends to use diluted solutions.

Among the multiple benefits, here are the most important:

- Reduces associated risk of handling some hazardous reagents
- Traceability according to NIST for raw material and instrumentation used to prepare and control the finish product
- Available in 100 ml amber bottles or permanently sealed cuvettes (possibility of re-calibration on request)
- Can be used with all UV-VIS Spectrophotometers

Description	Notes	Size	Code	Page
Holmium perchlorate in solution		100 ml	506473	391
Potassium chloride 12g/l		10 ml	506432	589
Potassium chloride 12g/l		100 ml	506433	589
Potassium dichromate - Sulfuric acid solution	conc. 60 mg/l	2 x 10 ml	506442	592
Potassium dichromate - Sulfuric acid solution	conc. 600 mg/l	2 x 10 ml	506452	592
Potassium dichromate - Sulfuric acid solution	conc. 60 mg/l	100 ml	506443	592
Potassium dichromate - Sulfuric acid solution	conc. 600 mg/l	100 ml	506453	592
Toluene in solution in hexane		10 ml	506462	768
Toluene in solution in hexane		100 ml	506463	768
Water	Spectrophotometry Stray Light Blank	100 ml	506411	787

## Ph. Eur. Reagents, Chapter 2.2.3: Potentiometric determination of pH

These buffer solutions are intended for:

- Calibration of pH-meters
- Validation of analytical methods
- Preparation of "working reference samples"
- Detection limit and linearity studies

These Certified Reference Materials are produced under a quality management system that is:

- Registered to ISO 9001 Quality Management System
- Accredited according to ISO/IEC 17025
- Accredited according to ISO 17034

Description	Notes	Size	Code	Page
Buffer pH 1.68	Certified Reference Material	500 ml	612203168	216
Buffer pH 4	pH 4.01 at 25°C - Certified Reference Material	500 ml	612203401	218
Buffer pH 6.88	pH 6.87 at 25°C - Certified Reference Material	500 ml	612203687	220
Buffer pH 7.4	pH 7.41 at 25°C - Certified Reference Material	500 ml	612203741	222
Buffer pH 9.22	pH 9.18 at 25°C - Certified Reference Material	500 ml	612203918	223

## Ph. Eur. Reagents, Chapter 2.4.24: Identification and control of residual solvents

The International Conference on Harmonization (ICH) adopted the “Impurities: guidelines for residual solvents”, which sets the pharmaceutical limits for residual solvents in the manufacturing of drug substances, excipients, and drug products. The methods used to determine these limits are described in chapter 467 of the USP and 2.4.24 of the European Pharmacopeia.

Three classes of solvents are categorized:

Class 1: Solvents to be avoided (Known human carcinogens, strongly suspected human carcinogens, environmental hazards)

Class 2: Residual solvents (Solvents to be limited, nongenotoxic animal carcinogens or possible causative agents of other irreversible toxicity, such as neurotoxicity or teratogenicity. Solvents suspected of other significant but reversible toxicities.)

Class 3: Residual Solvents (Solvents with Low Toxic Potential. Solvents with low toxic potential to humans; no health-based exposure limit is needed. Class 3 residual solvents may have PDEs of up to 50 mg or more per day.)

CARLO ERBA Reagents developed a product line of mixture of class 1 and 2 solvents, offered at concentrations within the acceptable limit mentioned in chapter “5.4 - Residual solvents”. This allows you to control the amount of residual solvents in your starting material used in the manufacturing of drug products.

Advantages: delivered with a certificate of analysis guaranteeing total traceability:

- Lot number
- Expiration date
- CAS number of each component
- Molecular formula of each component
- Lot number of each starting material
- Concentration of each starting material
- Concentration variation limits

Description	Notes	Size	Code	Page
Mixtures for residual solvents analysis	5 elements (Class 1): Benzene 4mg/ml; 1,2-Dichloroethane 10mg/ml; Tetrachloromethane 8mg/ml; 1,1-Dichloroethene 16mg/ml; 1,1,1-Tricloroethane 20mg/ml; Matrix: Dimethylsulphoxide	1 ml	507688	509
Mixtures for residual solvents analysis	14 elements (Class 2): Chlorobenzene 360µg/ml; Cyclohexane 3880µg/ml; cis-1,2-Dichloroethene 1870µg/ml; Dichloromethane 600µg/ml; Ethylbenzene 369µg/ml; n-Hexane 290µg/ml; Methylcyclohexane 1180µg/ml; n,n-Dimethylformamide 880µg/ml; Toluene 890µg/ml; 1,1,2-Trichloroethene 80µg/ml; m-Xylene 1302µg/ml; o-Xylene 195µg/ml; p-Xylene 304µg/ml; Tetrahydrofuran 720µg/ml; Matrix: Dimethylsulfoxide	1 ml	507689	509
Mixtures for residual solvents analysis	11 elements (Class 2): Acetonitrile 410mg/l; Chloroform 60mg/l; 1,2-Dimethoxyethane 100mg/l; n,n-Dimethylacetamide 1090mg/l; Dioxan 380mg/l; 2-Hexanone 50mg/l; Methanol 3000mg/l; Nitromethane 50mg/l; Pyridine 200mg/l; 1,2,3,4-Tetrahydronaphthalene 100mg/l; Isopropylbenzene (Cumene) 70mg/l; Matrix: Dimethylsulphoxide/ Water	1 ml	507690	509
Mixtures for residual solvents analysis	6 elements (Class 2): Ethyleneglycol-monoethyl ether (2-Ethoxyethanol) 160mg/l; Ethyleneglycol 620mg/l; Formamide 220mg/l; Ethylene glycol-monomethyl ether (2-Methoxyethanol) 50mg/l; 1-Methyl-2-pyrrolidon 4840mg/l; Sulfolan 160mg/l; Matrix: Water	1 ml	507691	509

## Ph. Eur. Reagents, Chapter 4.1.1: Reagents

Description	Notes	Size	Code	Page
Acetic acid 30%	Ref Ph.Eur 1000401	1 l	611000401	134
Acetic acid 12%	Ref Ph.Eur 1000402	1 l	611000402	135
Acetic anhydride	Acetic anhydride solution R1 Ref Ph.Eur 1000501	1 l	611000501	137
Aminohippuric acid reagent	Ref Ph.Eur 1003701	100 ml	611003701	158
Aminopyrazolone solution		100 ml	611004601	159
Ammonia solution 17%	Ref Ph.Eur 1004701	250 ml	611004701	164
Ammonia solution diluted	Ammonia, dilute R1 Ref Ph.Eur 1004702	1 l	611004702	164

Ammonia solution diluted	Ammonia, dilute R2 Ref Ph.Eur 1004703	1 l	611004703	164
Ammoniacal solution of copper tetrammine	Ref Ph.Eur 1022600	100 ml	611022600	165
Ammonium carbonate solution 158 g/l	Ref Ph.Eur 1005201	1 l	611005201	168
Anisaldehyde solution	Ref Ph.Eur 1007301	100 ml	611007301	181
Anisaldehyde solution	Anisaldehyde solution R1 Ref Ph.Eur 1007302	100 ml	611007302	181
Antimony trichloride	Ref Ph.Eur 1007701	100 ml	611007701	183
Barium chloride dihydrate	Ref Ph.Eur 1009300	100 g	611009300	192
Barium chloride solution 61 g/l	Barium chloride solution R1 Ref Ph.Eur 1009301	100 ml	611009303	193
Barium chloride solution 61 g/l	Barium chloride solution R1 Ref Ph.Eur 1009301	250 ml	611009309	193
Barium chloride solution 61 g/l	Barium chloride solution R1 Ref Ph.Eur 1009301	1 l	611009301	193
Barium hydroxide solution 47.3 g/l	Ref Ph.Eur 1009401	250 ml	611009409	195
Barium hydroxide solution 47.3 g/l	Ref Ph.Eur 1009401	1 l	611009401	195
Biuret reagent	Biuret reagent Ref Ph.Eur 1011601	1 l	611011601	205
Bromine solution	Ref Ph.Eur 1012401	100 ml	611012401	210
Bromine water	Ref Ph.Eur 1012402	50 ml	611012409	211
Bromine water	Ref Ph.Eur 1012402	100 ml	611012402	211
Bromocresol green solution	Ref Ph.Eur 1012601 / Color change: pH 3.6 (yellow) to pH 5.2 (blue)	100 ml	611012601	211
Bromocresol green - Methyl red solution	Ref Ph.Eur 1012602	100 ml	611012602	212
Bromocresol purple solution	Ref Ph.Eur 1012701	100 ml	611012701	213
Bromophenol blue solution	Ref Ph.Eur 1012801/Color change: pH 2.8 (yellow) to pH 4.4 (blue-violet)	100 ml	611012801	214
Bromophenol blue solution	Bromophenol blue solution R1 Ref Ph.Eur 1012802	100 ml	611012802	214
Bromophenol blue solution	Bromophenol blue solution R2 Ref Ph.Eur 1012803	100 ml	611012803	214
Bromothymol blue solution	Bromothymol blue solution R1 Ref Ph.Eur 1012901/ Color change: pH 5.8 (yellow) to pH 7.4 (blue)	100 ml	611012901	215
Bromothymol blue solution	Bromothymol blue solution R3 Ref Ph.Eur 1012903	100 ml	611012903	215
Calcium sulfate hemihydrate solution	Ref Ph.Eur 1015201	100 ml	611015202	245
Calcium sulfate hemihydrate solution	Ref Ph.Eur 1015201	1 l	611015201	245
Chloral hydrate	Ref Ph.Eur 1017901	100 ml	611017901	256
Citric acid monohydrate	Ref Ph.Eur 1021000	100 g	611021000	269
Congo red solution	Ref Ph.Eur 1022001	100 ml	611022001	274
Copper (II) sulfate solution 12.5%	Ref Ph.Eur 1022500	100 ml	611022501	281
Cresol red R solution in Sodium hydroxide 0.1N/ Ethanol 96% / Water	Ref Ph.Eur 1022801	100 ml	611022801	283
Crystal violet solution 0.5% in anhydrous acetic acid	Ref Ph.Eur 1022901	100 ml	611022901	284
Cupri-citric solution	Ref Ph.Eur 1023100	1 l	611023100	284
Cupri-tartaric solution	Ref Ph.Eur 1023300	2 x 500 ml	611023300	285
Dichloromethane acidified with 1% hydrochloric acid	Ref Ph.Eur 1055901	100 ml	611055901	305
1,4-Dioxane	Dioxane stock solution 1.0 mg/ml Ref Ph.Eur 1032001	50 ml	611032001	321
1,4-Dioxane	Dioxane solution R1 0.1 mg/ml Ref Ph.Eur 1032003	50 ml	611032003	321
1,4-Dioxane	Dioxane solution 0.5 mg/ml Ref Ph.Eur 1032002	100 ml	611032002	321
Diphenylamine solution 1% in sulfuric acid	Ref Ph.Eur 1032101	100 ml	611032109	322

Diphenylamine solution 1% in sulfuric acid	Ref Ph.Eur 1032101	1 l	611032101	322
Diphenylamine solution 1% in sulfuric acid	Diphenylamine solution R1 Ref Ph.Eur 1032102	1 l	611032102	322
Eriochrome black T	Ref Ph.Eur 1056801	100 g	611056801	329
Ethanol 96°	Ref Ph.Eur 1002501	1 l	611002501	334
Ethylene oxide solution	Ethylene oxide solution R2 Ref Ph.Eur 1036408	1 ml	611036408	349
Ethylene oxide solution	Ethylene oxide stock solution Ref Ph.Eur 1036401	10 ml	611036401	349
Ferroun 0.025 mol/l solution	Ref Ph.Eur 1038100	100 ml	611038100	354
Formaldehyde 35% w/w	Ref Ph.Eur 1039101	100 ml	611039101	359
Fuchsin solution decolorised	Ref Ph.Eur 1039401	100 ml	611039401	365
Fuchsin solution decolorised	Fuchsin solution, decolorised R1 Ref Ph.Eur 1039402	100 ml	611039402	365
Holmium perchlorate in solution	Ref Ph.Eur 1043101	1 l	611043101	391
Hydrochloric acid 25% w/v	Hydrochloric acid R1 Ref Ph.Eur 1043501	1 l	611043501	398
Hydrochloric acid, dilute	Ref Ph.Eur 1043503	1 l	611043503	409
Hydrochloric acid, dilute	Hydrochloric acid, dilute R1 Ref Ph.Eur 1043504	1 l	611043504	409
Hydrochloric acid, brominated	Ref Ph.Eur 1043507	1 l	611043507	409
Hydroxylamine solution, alcoholic	Ref Ph.Eur 1044301	100 ml	611044301	417
Indigo carmine solution	Ref Ph.Eur 1045601	1 l	611045601	422
Iodine bromide solution	Ref Ph.Eur 1045901	1 l	611045901	426
Iodoplatinate reagent	Ref Ph.Eur 1046300	200 ml	611046309	427
Iodoplatinate reagent	Ref Ph.Eur 1046300	1 l	611046300	427
Iron (III) ammonium sulfate solution 100 g/l	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702	100 ml	611037703	433
Iron (III) ammonium sulfate solution 100 g/l	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702	1 l	611037702	433
Lanthanum nitrate solution 50 g/l	Ref Ph.Eur 1048001	1 l	611048001	454
Lead (II) acetate basic solution	Ref Ph.Eur 1048400	100 ml	611048400	457
Lead (II) acetate cotton	Ref Ph.Eur 1048101	10 g	611048101	457
Lead (II) acetate paper	Ref Ph.Eur 1048102	50 pc	611048102	457
Lead (II) acetate solution 95 g/l	Ref Ph.Eur 1048103	100 ml	611048103	458
Lead (II) nitrate solution 33 g/l	Ref Ph.Eur 1048301	1 l	611048301	459
Malachite green solution 0.5% in acetic acid anhydrous	Ref Ph.Eur 1050501	1 l	611050501	476
Mercuric bromide paper	Ref Ph.Eur 1052101	50 pc	611052101	484
Mercury chloride solution 54 g/l	Ref Ph.Eur 1052201	100 ml	611052201	485
Mercury (II) sulfate solution	Ref Ph.Eur 1052600	100 ml	611052600	486
Methanol, hydrochloric	Ref Ph.Eur 1053203	100 ml	611053203	493
Methyl Orange solution 0.1%	Solution in ethanol Ref Ph.Eur 1054802	100 ml	611054802	501
Methyl orange mixed solution	Ref Ph.Eur 1054801	100 ml	611054801	502
Methyl red solution	Ref Ph.Eur 1055102	100 ml	611055102	504
Methyl red mixed solution	Ref Ph.Eur 1055101	100 ml	611055101	504
Molybdovanadic reagent	Ref Ph.Eur 1056700	100 ml	611056700	511
alpha-Naphtholbenzein solution 0.2% in acetic acid	Ref Ph.Eur 1057601	100 ml	611057601	518
Ninhydrin solution	Ninhydrin solution R1 Ref Ph.Eur 1058304	100 ml	611058304	526
Ninhydrin solution	Ninhydrin solution R2 Ref Ph.Eur 1058305	100 ml	611058305	526
Ninhydrin and Tin (II) chloride reagent	Ref Ph.Eur 1058301	100 ml	611058301	526
Nitric acid, dilute	Ref Ph.Eur 1058402	100 ml	611058402	534
Nitric acid, dilute	Ref Ph.Eur 1058402	250 ml	611058409	534
Pararosaniline solution, decolorised	Ref Ph.Eur 1062201	100 ml	611062201	556

Perchloric acid solution	Ref Ph.Eur 1062901	100 ml	611062901	562
Phenol red solution	Ref Ph.Eur 1063601 / Colour change: pH 6.8 (yellow) to pH 8.4 (reddish-violet)	100 ml	611063601	571
Phenol red solution	Phenol red solution R2 Ref Ph.Eur 1063603	500 ml	611063603	571
Phenolphthalein solution 1% in ethanol	Phenolphthalein solution R1 Ref Ph.Eur 1063703	100 ml	611063703	571
Phenolphthalein solution 0.1%	Ref Ph.Eur 1063702	100 ml	611063702	572
Phenolphthalein solution 0.1% in ethanol	Ref Ph.Eur 1063702	1 l	611063709	572
Phenylhydrazine hydrochloride solution	Ref Ph.Eur 1064501	100 ml	611064501	573
Phosphomolybdotungstic reagent	Ref Ph.Eur 1065000	100 ml	611065000	576
Phosphotungstic acid solution	Ref Ph.Eur 1065200	100 ml	611065200	578
Picric acid solution	Ref Ph.Eur 1065801	100 ml	611065801	579
Picric acid solution	Picric acid solution R1 Ref Ph.Eur 1065802	100 ml	611065802	579
Potassium carbonate	Ref Ph.Eur 1068900	100 g	611068900	586
Potassium chloride 0.1 mol/l (0.1N)	Ref Ph.Eur 1069101	1 l	611069101	589
Potassium chromate 5% solution	Ref Ph.Eur 1069201	1 l	611069201	591
Potassium dichromate solution 0.5%	Potassium dichromate solution R1 Ref Ph.Eur 1069502	100 ml	611069509	592
Potassium dichromate solution 0.5%	Potassium dichromate solution R1 Ref Ph.Eur 1069502	1 l	611069502	592
Potassium dichromate solution 106 g/l	Ref Ph.Eur 1069501	1 l	611069501	594
Potassium ferricyanide	Ref Ph.Eur 1069800	500 g	611069700	594
Potassium ferrocyanide trihydrate	Ref Ph.Eur 1069800	500 g	611069800	595
Potassium ferrocyanide solution 53 g/l	Ref Ph.Eur 1069801	100 ml	611069801	596
Potassium hydrogen phthalate 0.2 mol/l (0.2N)	Ref Ph.Eur 1070001	1 l	611070001	598
Potassium hydroxide solution 3% in ethanol	Ref Ph.Eur 1070303	100 ml	611070303	601
Potassium hydroxide 2 mol/l (2N) in ethanol	Ref Ph.Eur 1070301	100 ml	611070301	602
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	Ref Ph.Eur 1070302	1 l	611070302	603
Potassium hydroxide in solution	Ref Ph.Eur 3005001	500 ml	613005001	606
Potassium iodide solution	Solution saturated Ref Ph.Eur 1070504	100 ml	611070504	608
Potassium iodide solution	Solution iodinated R1 Ref Ph.Eur 1070505	100 ml	611070505	608
Potassium iodide solution	Potassium iodide solution 166 g/l Ref Ph.Eur 1070502	1 l	611070502	608
Potassium iodobismuthate solution	Ref Ph.Eur 1070600	100 ml	611070600	609
Potassium iodobismuthate solution	Potassium iodobismuthate solution R2 Ref Ph.Eur 1070602	100 ml	611070602	609
Potassium permanganate solution 3%	Ref Ph.Eur 1070902	1 l	611070902	612
Potassium permanganate and phosphoric acid solution	Ref Ph.Eur 1070901	100 ml	611070901	613
Potassium phosphate monobasic 0.2 mol/l (0.2N)	Ref Ph.Eur 1069601	1 l	611069601	615
Potassium pyroantimonate solution	Ref Ph.Eur 1071300	100 ml	611071303	616
Potassium pyroantimonate solution	Ref Ph.Eur 1071300	250 ml	611071309	616
Potassium pyroantimonate solution	Ref Ph.Eur 1071300	1 l	611071302	616
Potassium tetraiodomercurate solution, alkaline	Ref Ph.Eur 1071600	200 ml	611071600	619
Potassium thiocyanate solution	A 97 g/l solution Ref Ph.Eur 1071801	1 l	611071801	621
Salicylaldehyde azine	Ref Ph.Eur 1075500	100 ml	611075500	642
Silver manganese paper	Ref Ph.Eur 1078200	50 stripes	611078200	655
Silver nitrate solution	Silver nitrate R1 Ref Ph.Eur 1078301	100 ml	611078307	658
Silver nitrate solution	Silver nitrate R2 Ref Ph.Eur 1078302	100 ml	611078306	658
Silver nitrate solution	Silver nitrate R1 Ref Ph.Eur 1078301	1 l	611078301	658
Silver nitrate solution	Silver nitrate R2 Ref Ph.Eur 1078302	1 l	611078302	658
Sodium carbonate solution	A 106 g/l solution ref Ph.Eur 1079301	1 l	611079301	670
Sodium hydroxide solution 20% w/v	Ref Ph.Eur 1081401	1 l	611081401	683



Sodium hydroxide solution	Ref Ph.Eur 1081402	1 l	611081402	691
Sodium hydroxide solution	Sodium hydroxide solution, strong Ref Ph.Eur 1081404	1 l	611081404	691
Sodium hydroxide solution, methanolic	Sodium hydroxide solution, methanolic R1 Ref Ph.Eur 1081405	100 ml	611081405	691
Sodium hypochlorite solution in water	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600	250 ml	611081609	692
Sodium hypochlorite solution in water	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600	1 l	611081600	692
Sodium sulfide nonahydrate solution	Ref Ph.Eur 1083901	100 ml	611083901	707
Sodium sulfide nonahydrate solution	Sodium sulfide solution R1 Ref Ph.Eur 1083902	100 ml	611083902	707
Starch soluble solution	Ref Ph.Eur 1085103	100 ml	611085103	721
Starch soluble solution	Ref Ph.Eur 1085103	1 l	611085104	721
Sulfomolybdic reagent	Sulfomolybdic reagent R3 Ref Ph.Eur 1086500	100 ml	611086500	729
Sulfuric acid, dilute	A 98 g/l solution Ref Ph.Eur 1086804	1 l	611086804	743
Thioacetamide solution 40 g/l	Ref Ph.Eur 1089602	100 ml	611089603	755
Thioacetamide solution 40 g/l	Ref Ph.Eur 1089602	1 l	611089602	755
Thioglycolic acid 80%	Ref Ph.Eur 1089700	10 ml	611089700	755
Thymol blue solution	Ref Ph.Eur 1090601	100 ml	611090601	758
Thymolphthalein solution 0.1% in ethanol	Ref Ph.Eur 1090701	100 ml	611090701	759
Tin (II) chloride solution	Ref Ph.Eur 1085001	100 ml	611085001	761
Titanium trichloride-sulfuric acid reagent	Ref Ph.Eur 1091202	100 ml	611091202	765
o-Tolidine solution	Ref Ph.Eur 1123001	500 ml	611123001	765
Tris(hydroxymethyl)aminomethane solution	Ref Ph.Eur 1094201	100 ml	611094201	777
Vanillin solution, phosphoric	Ref Ph.Eur 1095302	100 ml	611095302	784
Water	Water ammonium-free Ref Ph.Eur 1095501	1 l	611095501	787
Water	Water nitrate-free Ref Ph.Eur 1095506	1 l	611095506	787
Zinc, activated	Ref Ph.Eur 1096501	100 g	611096501	797
Zinc chloride solution, iodinated	Ref Ph.Eur 1096602	500 ml	611096603	800
Zinc chloride-formic acid solution	Ref Ph.Eur 1096601	1 l	611096601	800

### Ph. Eur. Reagents Chapter 4.1.2: Standard solutions for limit tests

To be diluted immediately prior to use as described in the pharmacopoeia.

Description	Notes	Size	Code	Page
Aluminum standard solution	A 200 ppm solution Ref Ph.Eur 5000200	100 ml	615000200	151
Aluminum standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5000201	100 ml	615000201	151
Aluminum standard solution	A 2 ppm solution: to dilute according to Ref Ph.Eur 5000202	100 ml	615000202	151
Aluminum standard solution	A 100 ppm solution: to dilute according to Ref Ph.Eur 5000203	100 ml	615000203	151
Ammonium standard solution	A 2.5 ppm solution: to dilute according to Ref Ph.Eur 5000301	100 ml	615000301	165
Ammonium standard solution	A 1 ppm solution: to dilute according to Ref Ph.Eur 5000302	100 ml	615000302	165
Ammonium standard solution	A 100 ppm solution: to dilute according to Ref Ph.Eur 5000300	100 ml	615000309	165
Antimony standard solution	A 100 ppm solution Ref Ph.Eur 5000400	100 ml	615000400	182
Arsenic standard solution	A 1 ppm solution: to dilute according to Ref Ph.Eur 5000501	100 ml	615000501	185
Arsenic standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5000500	100 ml	615000509	185
Barium standard solution	A 0.1 % solution Ref Ph.Eur 5000601	100 ml	615000601	191

Barium standard solution	A 50 ppm solution: to dilute according to Ref Ph.Eur 5000600	100 ml	615000609	191
Bismuth standard solution	A 100 ppm solution: to dilute according to Ref Ph.Eur 5005300	100 ml	615005300	202
Cadmium standard solution	A 0.1 % solution Ref Ph.Eur 5000700	100 ml	615000700	232
Cadmium standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5000701	100 ml	615000709	232
Calcium standard solution	A 100 ppm solution: to dilute according to Ref Ph.Eur 5000801	100 ml	615000801	234
Calcium standard solution	A 100 ppm alcoholic solution: to dilute according to Ph.Eur 5000802	100 ml	615000802	234
Calcium standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5000803	100 ml	615000803	234
Calcium standard solution	A 100 ppm solution R1: to dilute according to Ref Ph.Eur 5000804	100 ml	615000804	234
Calcium standard solution	A 400 ppm solution: to dilute according to Ref Ph.Eur 5000800	100 ml	615000809	234
Chloride standard solution	A 5 ppm solution: to dilute according to Ref Ph.Eur 5000901	100 ml	615000901	257
Chloride standard solution	A 8 ppm solution: to dilute according to Ref Ph.Eur 5000900	100 ml	615000909	257
Chloride standard solution	A 50 ppm solution: to dilute according to Ref Ph.Eur 5004100	100 ml	615004100	257
Chromium standard solution	A 0.1 % solution Ref Ph.Eur 5001002	100 ml	615001002	264
Chromium standard solution	A 100 ppm solution Ref Ph.Eur 5001000	1 l	615001000	264
Cobalt standard solution	A 100 ppm solution Ref Ph.Eur 5004300	1 l	615004300	270
Copper standard solution	A 0.1 % solution Ref Ph.Eur 5001100	100 ml	615001100	275
Ferricyanide standard solution	A 50 ppm solution: to dilute according to Ph.Eur 5001300	100 ml	615001300	353
Ferrocyanide standard solution	A 100 ppm solution: to dilute according to Ph.Eur 5001200	100 ml	615001209	354
Fluoride standard solution	A 1 ppm solution: to dilute according to Ref Ph.Eur 5001401	100 ml	615001401	358
Fluoride standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001400	100 ml	615001409	358
Germanium standard solution	A 100 ppm solution Ref Ph.Eur 5004400	1 l	615004400	369
Glyoxal standard solution	A 20 ppm solution: to dilute according to Ph.Eur 5003700	100 ml	615003700	374
Iodine 10 ppm	Concentrated solution: to dilute according to Ref Ph.Eur 5003800	100 ml	615003809	426
Iron standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001601	100 ml	615001601	428
Iron standard solution	A 8 ppm solution: to dilute according to Ref Ph.Eur 5001602	100 ml	615001602	428
Iron standard solution	A 2 ppm solution: to dilute according to Ref Ph.Eur 5001603	100 ml	615001603	428
Iron standard solution	A 0.1 % solution Ref Ph.Eur 5001605	100 ml	615001605	428
Iron standard solution	A 250 ppm solution: to dilute according to Ref Ph.Eur 5001606	100 ml	615001606	428
Iron standard solution	A 20 ppm solution: to dilute according to Ref Ph.Eur 5001600	100 ml	615001609	428
Lead standard solution	A 0.1 % solution Ref Ph.Eur 5001700	100 ml	615001700	455
Lead standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001702	100 ml	615001702	455
Lead standard solution	A 2 ppm solution: to dilute according to Ref Ph.Eur 5001703	100 ml	615001703	455
Lead standard solution	A 1 ppm solution: to dilute according to Ref Ph.Eur 5001704	100 ml	615001704	455

Lead standard solution	A 0.1 ppm solution: to dilute according to Ref Ph.Eur 5001705	100 ml	615001705	455
Lead standard solution	A 10 ppm solution R1: to dilute according to Ref Ph.Eur 5001706	100 ml	615001706	455
Lead standard solution	A 100 ppm solution: to dilute according to Ref Ph.Eur 5001701	100 ml	615001709	455
Lead standard solution	A 0.1 % solution Ref Ph.Eur 5001700	500 ml	615001701	455
Magnesium standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001801	100 ml	615001801	468
Magnesium standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001802	100 ml	615001802	468
Magnesium standard solution	A 0.1 % solution Ref Ph.Eur 5001803	100 ml	615001803	468
Magnesium standard solution	A 100 ppm solution: to dilute according to Ref Ph.Eur 5001800	100 ml	615001809	468
Manganese standard solution	A 100 ppm solution Ref Ph.Eur 5004500	1 l	615004500	479
Manganese standard solution	A 1.000 ppm solution Ref Ph.Eur 5005800	1 l	615005800	479
Mercury standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001901	100 ml	615001901	484
Mercury standard solution	A 1000 ppm solution Ref Ph.Eur 5001900	1 l	615001900	484
Nickel standard solution	A 0.1 ppm solution: to dilute according to Ref Ph.Eur 5002001	100 ml	615002001	521
Nickel standard solution	A 0.2 ppm solution: to dilute according to Ref Ph.Eur 5002002	100 ml	615002002	521
Nickel standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5002000	100 ml	615002009	521
Nitrate standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5002101	100 ml	615002101	527
Nitrate standard solution	A 2 ppm solution: to dilute according to Ref Ph.Eur 5002102	100 ml	615002102	527
Nitrate standard solution	A 100 ppm solution: to dilute according to Ref Ph.Eur 5002100	100 ml	615002109	527
Palladium standard solution	A 500 ppm solution Ref Ph.Eur 5003600	100 ml	615003600	553
Phosphate standard solution	A 5 ppm solution: to dilute according to Ref Ph.Eur 5002200	100 ml	615002200	574
Phosphate standard solution	A 200 ppm solution Ref Ph.Eur 5004200	1 l	615004200	574
Potassium standard solution	A 20 ppm solution: to dilute according to Ref Ph.Eur 5002401	100 ml	615002401	582
Potassium standard solution	A 0.1 % solution Ref Ph.Eur 5002402	100 ml	615002402	582
Potassium standard solution	A 100 ppm solution: to dilute according to Ref Ph.Eur 5002400	100 ml	615002409	582
Potassium standard solution	A 600 ppm solution: to dilute according to Ref Ph.Eur 5005100	100 ml	615005100	582
Selenium standard solution	A 1 ppm solution Ref Ph.Eur 5002501	100 ml	615002501	647
Selenium standard solution	A 100 ppm solution Ref Ph.Eur 5002500	1 l	615002500	647
Silver standard solution	A 5 ppm solution: to dilute according to Ref Ph.Eur 5002600	100 ml	615002609	653
Sodium standard solution	A 50 ppm solution: to dilute according to Ref Ph.Eur 5002701	100 ml	615002701	661
Sodium standard solution	A 200 ppm solution: to dilute according to Ref Ph.Eur 5002700	100 ml	615002709	661
Sodium standard solution	A 1000 ppm solution Ref Ph.Eur 5005700	1 l	615005700	661
Sulfate standard solution	A 10 ppm solution R1: to dilute according to Ref Ph.Eur 5002801	100 ml	615002801	728
Sulfate standard solution	A 100 ppm solution: to dilute according to Ref Ph.Eur 5002802	100 ml	615002802	728
Sulfate standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5002800	100 ml	615002809	728
Sulfite standard solution	A 1,5 ppm solution Ref Ph.Eur 5002900	100 ml	615002900	729

Thallium standard solution	A 10 ppm solution Ref Ph.Eur 5003000	100 ml	615003000	754
Tin standard solution	A 0.1 ppm solution: to dilute according to Ref Ph.Eur 5003101	100 ml	615003101	760
Tin standard solution	A 5 ppm solution: to dilute according to Ref Ph.Eur 5003100	100 ml	615003109	760
Titanium standard solution	A 100 ppm solution Ref Ph.Eur 5003200	1 l	615003200	763
Vanadium standard solution	A 1 g/l solution Ref Ph.Eur 5003300	100 ml	615003300	783
Zinc standard solution	A 10 ppm solution: to dilute according to Ref Ph.Eur 5003402	100 ml	615003402	797
Zinc standard solution	A 5 ppm solution: to dilute according to Ref Ph.Eur 5003403	100 ml	615003403	797
Zinc standard solution	A 100 ppm solution: to dilute according to Ref Ph.Eur 5003401	100 ml	615003409	797
Zirconium standard solution	A 1 g/l solution Ref Ph.Eur 5003500	100 ml	615003500	804

### Ph. Eur. Reagents Chapter 4.1.3: Buffers Solutions

Description	Notes	Size	Code	Page
Acetate buffer pH 6.0	Ref Ph.Eur 4002200	1 l	614002200	130
Acetate buffer pH 4.6	Ref Ph.Eur 4001400	1 l	614001400	130
Acetone	Buffered acetone solution Ref Ph.Eur 4000100	1 l	614000100	140
Ammonium chloride buffer solution pH 10.7	Ref Ph.Eur 4013400	1 l	614013400	169
Ammonium chloride buffer solution pH 10.0	Ref Ph.Eur 4007300	100 ml	614007301	170
Ammonium chloride buffer solution pH 10.0	Ref Ph.Eur 4007300	1 l	614007300	170
Ammonium chloride buffer solution pH 9.5	Ref Ph.Eur 4007200	1 l	614007200	170
Buffer pH 2	Ref Ph.Eur 4000200	1 l	614000200	217
Buffer pH 3.5	Ref Ph.Eur 4000600	250 ml	614000601	217
Buffer pH 3.5	Ref Ph.Eur 4000600	1 l	614000600	217
Buffer pH 3.7	Ref Ph.Eur 4000900	1 l	614000900	218
Buffer pH 5.2	Ref Ph.Eur 4001700	1 l	614001700	219
Buffer pH 7	Ref Ph.Eur 4003500	1 l	614003500	220
Buffer pH 7.4	Ref Ph.Eur 4004600	1 l	614004600	222
Buffer pH 9	Ref Ph.Eur 4000700	1 l	614007000	222
Phosphate buffer pH 9.0	Ref Ph.Eur 4008300	1 l	614008300	574
Phosphate buffer pH 7.4	Ref Ph.Eur 4004800	1 l	614004800	575
Phosphate buffer pH 6.8	Ref Ph.Eur 4003400	1 l	614003400	575
Phosphate buffer pH 6.0	Ref Ph.Eur 4002400	1 l	614002400	575
Phosphate buffer pH 5.5	Ref Ph.Eur 4002000	1 l	614002000	575
Phosphate buffer pH 3.0	Ref Ph.Eur 4000500	100 ml	614000501	576
Phosphate buffer pH 3.0	Ref Ph.Eur 4000500	1 l	614000500	576
Phosphate buffer pH 2.0	Ref Ph.Eur 4007900	1 l	614007900	576
Total-ionic-strength-adjustment buffer	Ref Ph.Eur 4007700	1 l	614007700	769
Total-ionic-strength-adjustment buffer	Ref Ph.Eur 4008800	1 l	614008800	769
Tris(hydroxymethyl)aminomethane buffer solution pH 8.1	Ref Ph.Eur 4006200	1 l	614006200	777
Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4	Ref Ph.Eur 4006600	1 l	614006600	777
Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4	Ref Ph.Eur 4004900	1 l	614004900	778

## Ph. Eur. Reagents Chapter 4.2.1: Primary standards for volumetric solutions

Description	Notes	Size	Code	Page
Benzoic acid	Ref Ph.Eur 2000200	100 g	612000200	199
Potassium bromate	Ref Ph.Eur 2000300	50 g	612000300	584
Potassium hydrogen phthalate	Ref Ph.Eur 2000400	50 g	612000400	597
Sodium carbonate monohydrate	Ref Ph.Eur 2000500	50 g	612000500	668
Sodium chloride	Ref Ph.Eur 2000600	250 g	612000600	670
Sulfanilic acid	Ref Ph.Eur 2000700	50 g	612000700	728
Zinc standard solution	Ref Ph.Eur 2000800	100 g	612000800	797

## Ph. Eur. Reagents Chapter 4.2.2: Volumetric solutions

Description	Notes	Size	Code	Page
Ammonium thiocyanate 0.1 mol/l (0.1N)	Ref Ph.Eur 3000500	500 ml	613000501	179
Ammonium thiocyanate 0.1 mol/l (0.1N)	Ref Ph.Eur 3000500	1 l	613000500	179
Barium chloride 0.1 mol/l (0.2N)	Ref Ph.Eur 3000600	1 l	613000600	193
Barium perchlorate 0.05 mol/l	Ref Ph.Eur 3000700	1 l	613000700	196
Barium perchlorate 0.025 mol/l	Ref Ph.Eur 3009600	500 ml	613009601	196
Bromide - bromate 0.0167 mol/l	Ref Ph.Eur 3001000	1 l	613001000	210
Cerium (IV) ammonium nitrate 0.1 mol/l	Ref Ph.Eur 3000100	1 l	613000100	251
Cerium (IV) ammonium nitrate 0.01 mol/l	Ref Ph.Eur 3000200	1 l	613000200	251
Cerium (IV) ammonium sulfate 0.1 mol/l	Ref Ph.Eur 3000300	250 ml	613000301	252
Cerium (IV) ammonium sulfate 0.1 mol/l	Ref Ph.Eur 3000300	1 l	613000300	252
Cerium (IV) ammonium sulfate 0.01 mol/l	Ref Ph.Eur 3000400	1 l	613000400	252
Cerium (IV) sulfate 0.1 mol/l	Ref Ph.Eur 3001100	500 ml	613001101	253
Cerium (IV) sulfate 0.1 mol/l	Ref Ph.Eur 3001100	1 l	613001100	253
Cupriethylenediamine hydroxide 1 mol/l	Ref Ph.Eur 3008700	1 l	613008700	285
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Ref Ph.Eur 3005900	500 ml	613005901	346
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Ref Ph.Eur 3005900	1 l	613005900	346
Hyamine 1622 solution 0.004M	Ref Ph.Eur 3000900	100 ml	613000901	392
Hyamine 1622 solution 0.004M	Ref Ph.Eur 3000900	1 l	613000900	392
Hydrochloric acid 6 mol/l (6N)	Ref Ph.Eur 3001500	1 l	613001500	401
Hydrochloric acid 2 mol/l (2N)	Ref Ph.Eur 3001700	1 l	613001700	403
Hydrochloric acid 1 mol/l (1N)	Ref Ph.Eur 3001800	500 ml	613001801	403
Hydrochloric acid 1 mol/l (1N)	Ref Ph.Eur 3001800	1 l	613001800	403
Hydrochloric acid 0.1 mol/l (0.1N)	Ref Ph.Eur 3002100	500 ml	613002101	406
Hydrochloric acid 0.1 mol/l (0.1N)	Ref Ph.Eur 3002100	1 l	613002100	406
Hydrochloric acid 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3008800	1 l	613008800	407
Iodine 0.5 mol/l (1N)	Ref Ph.Eur 3009400	1 l	613009400	425
Iodine 0.05 mol/l (0.1N)	Ref Ph.Eur 3002700	1 l	613002700	425
Iodine 0.01 mol/l (0.02N)	Ref Ph.Eur 3002900	1 l	613002900	426
Iron (II) sulfate 0.1mol/l	Ref Ph.Eur 3001400	1 l	613001400	431
Iron (III) ammonium sulfate 0.1 mol/l	Ref Ph.Eur 3001300	1 l	613001300	433
Lanthanum nitrate 0.1 mol/l	Ref Ph.Eur 3010100	1 l	613010100	454
Lead (II) nitrate 0.1 mol/l	Ref Ph.Eur 3003100	500 ml	613003101	459
Lead (II) nitrate 0.1 mol/l	Ref Ph.Eur 3003100	1 l	613003100	459
Lead (II) nitrate 0.05 mol/l	Ref Ph.Eur 3009700	100 ml	613009700	459
Perchloric acid 0.1 mol/l (0.1N)	Ref Ph.Eur 3003900	1 l	613003900	561
Perchloric acid 0.05 mol/l (0.05N)	Ref Ph.Eur 3004000	1 l	613004000	562



Potassium bromate 0.033 mol/l (0.198N)	Ref Ph.Eur 3004200	1 l	613004200	585
Potassium bromate 0.02 mol/l (0.12N)	Ref Ph.Eur 3004300	1 l	613004300	585
Potassium dichromate 0.0167 mol/l (0.1N)	Ref Ph.Eur 3004600	1 l	613004600	593
Potassium hydroxide 1 mol/l (1N)	Ref Ph.Eur 3009100	1 l	613009100	602
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	Ref Ph.Eur 3004900	1 l	613004900	603
Potassium hydroxide 0.1 mol/l (0.1N)	Ref Ph.Eur 3004800	1 l	613004800	604
Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3005100	1 l	613005100	605
Potassium iodate 0.05 mol/l (0.3N)	Ref Ph.Eur 3005200	1 l	613005200	606
Potassium permanganate 0.02 mol/l (0.1N)	Ref Ph.Eur 3005300	100 ml	613005301	612
Potassium permanganate 0.02 mol/l (0.1N)	Ref Ph.Eur 3005300	250 ml	613005309	612
Potassium permanganate 0.02 mol/l (0.1N)	Ref Ph.Eur 3005300	1 l	613005300	612
Silver nitrate 0.1 mol/l (0.1N)	Ref Ph.Eur 3005600	1 l	613005600	657
Sodium arsenite 0.1 mol/l (0.2N)	Ref Ph.Eur 3005800	1 l	613005800	664
Sodium hydroxide 1 mol/l (1N)	Ref Ph.Eur 3006300	500 ml	613006301	686
Sodium hydroxide 1 mol/l (1N)	Ref Ph.Eur 3006300	1 l	613006300	686
Sodium hydroxide 0.1 mol/l (0.1N)	Ref Ph.Eur 3006600	500 ml	613006601	689
Sodium hydroxide 0.1 mol/l (0.1N)	Ref Ph.Eur 3006600	1 l	613006600	689
Sodium hydroxide 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3007000	100 ml	613007001	690
Sodium hydroxide 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3007000	1 l	613007000	690
Sodium methoxide 0.1 mol/l	Ref Ph.Eur 3007100	100 ml	613007101	695
Sodium methoxide 0.1 mol/l	Ref Ph.Eur 3007100	1 l	613007100	695
Sodium nitrite 0.1 mol/l (0.1N)	Ref Ph.Eur 3007200	1 l	613007200	697
Sodium thiosulfate 0.1 mol/l (0.1N)	Ref Ph.Eur 3007300	500 ml	613007301	712
Sodium thiosulfate 0.1 mol/l (0.1N)	Ref Ph.Eur 3007300	1 l	613007300	712
Sulfuric acid 0.5 mol/l (1N)	Ref Ph.Eur 3007800	1 l	613007800	738
Sulfuric acid 0.05 mol/l (0.1N)	Ref Ph.Eur 3008000	500 ml	613008001	740
Sulfuric acid 0.05 mol/l (0.1N)	Ref Ph.Eur 3008000	1 l	613008000	740
Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N)	Ref Ph.Eur 3008300	1 l	613008300	749
Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol	Ref Ph.Eur 3008400	1 l	613008400	749
Zinc sulfate 0.1 mol/l (0.2N)	Ref Ph.Eur 3008600	500 ml	613008601	802
Zinc sulfate 0.1 mol/l (0.2N)	Ref Ph.Eur 3008600	1 l	613008600	802



**PHYSICALS AND CHEMICAL CHARACTERISTICS**

In order to help you save time, CARLO ERBA Reagents enlarges its range of standards for quality control laboratories: melting point standards, colour standard, osmolality standards, density standards, brix standards, refractive index standards. Traceability, reliability are the key word of these products. You will find the most commonly used items. Others are available, don't hesitate to contact us.

**Melting point, Colour, Osmolality, Density, Brix & Refractive Index Standards**

Description	Notes	Size	Code	Page
ASTM colour standards	Sample A1	100 ml	540601	187
ASTM colour standards	Sample A3	100 ml	540602	187
ASTM colour standards	Sample A5	100 ml	540603	187
ASTM colour standards	Sample A7	100 ml	540604	187
Brix Standards	Sucrose Stabilised 0%, Nominal Refractive Index @ 20°C: 1.332986	15 ml	540201	209
Brix Standards	Sucrose Stabilised 5%, Nominal Refractive Index @ 20°C: 1.340264	15 ml	540202	209
Brix Standards	Sucrose Stabilised 7%, Nominal Refractive Index @ 20°C: 1.343253	15 ml	540203	209
Brix Standards	Sucrose Stabilised 10%, Nominal Refractive Index @ 20°C: 1.347824	15 ml	540204	209
Brix Standards	Sucrose Stabilised 11.5%, Nominal Refractive Index @ 20°C: 1.350149	15 ml	540205	209
Brix Standards	Sucrose Stabilised 12%, Nominal Refractive Index @ 20°C: 1.350930	15 ml	540206	209
Brix Standards	Sucrose Stabilised 15%, Nominal Refractive Index @ 20°C: 1.355679	15 ml	540207	209
Brix Standards	Sucrose Stabilised 20%, Nominal Refractive Index @ 20°C: 1.363842	15 ml	540208	209
Brix Standards	Sucrose Stabilised 25%, Nominal Refractive Index @ 20°C: 1.372328	15 ml	540209	209
Brix Standards	Sucrose Stabilised 30%, Nominal Refractive Index @ 20°C: 1.381149	15 ml	540210	209
Brix Standards	Sucrose Stabilised 35%, Nominal Refractive Index @ 20°C: 1.390322	15 ml	540220	209
Brix Standards	Sucrose Stabilised 40%, Nominal Refractive Index @ 20°C: 1.39986	15 ml	540221	209
Brix Standards	Sucrose Stabilised 45%, Nominal Refractive Index @ 20°C: 1.409777	15 ml	540222	209
Brix Standards	Sucrose Stabilised 50%, Nominal Refractive Index @ 20°C: 1.420087	15 ml	540223	209
Brix Standards	Sucrose Stabilised 60%, Nominal Refractive Index @ 20°C: 1.441928	15 ml	540224	209
Brix Standards	Sucrose Stabilised 67.5%, Nominal Refractive Index @ 20°C: 1.459290	15 ml	540225	209
Density Standard	0.6960g/ml at 15°C	100 ml	540401	292
Density Standard	0.8715g/ml at 15°C	100 ml	540402	292
Density Standard	1.0040g/ml at 15°C	100 ml	540403	292
Density Standard	1.2498g/ml at 15°C	100 ml	540404	292
Density Standard	0.6919g/ml at 20°C	100 ml	540405	292
Density Standard	0.7033g/ml at 20°C	100 ml	540406	292
Density Standard	0.7488g/ml at 20°C	100 ml	540407	292
Density Standard	0.8668g/ml at 20°C	100 ml	540408	292
Density Standard	1.0005g/ml at 20°C	100 ml	540409	292
Density Standard	1.0301g/ml at 20°C	100 ml	540410	292
Density Standard	1.0792g/ml at 20°C	100 ml	540411	292
Density Standard	1.1651g/ml at 20°C	100 ml	540412	292

Density Standard	1.2486g/ml at 20°C	100 ml	540413	292
Density Standard	1.3304g/ml at 20°C	100 ml	540414	292
Density Standard	1.5799g/ml at 20°C	100 ml	540415	292
Density Standard	1.7470g/ml at 20°C	100 ml	540416	292
Density Standard	1.9141g/ml at 20°C	100 ml	540417	292
Density Standard	0.8207g/ml at 40°C	100 ml	540418	292
Density Standard	0.9323g/ml at 40°C	100 ml	540420	292
Density Standard	1.2408g/ml at 40°C	100 ml	540421	292
Density Standard	0.9990g/ml at 60°C	100 ml	540422	292
Density Standard	0.7524g/ml at 15°C	100 ml	540451	293
Density Standard	0.7721g/ml at 15°C	100 ml	540452	293
Density Standard	0.7933g/ml at 15°C	100 ml	540453	293
Density Standard	0.8168g/ml at 15°C	100 ml	540454	293
Density Standard	0.8428g/ml at 15°C	100 ml	540455	293
Density Standard	0.8715g/ml at 15°C	100 ml	540456	293
Density Standard	0.6919g/ml at 20°C	100 ml	540457	293
Density Standard	0.7033g/ml at 20°C	100 ml	540458	293
Density Standard	0.7488g/ml at 20°C	100 ml	540459	293
Density Standard	0.7893g/ml at 20°C	100 ml	540460	293
Density Standard	0.8126g/ml at 20°C	100 ml	540461	293
Density Standard	0.8384g/ml at 20°C	100 ml	540462	293
Density Standard	0.8668g/ml at 20°C	100 ml	540463	293
Density Standard	0.9098g/ml at 20°C	100 ml	540464	293
Density Standard	0.9476g/ml at 20°C	100 ml	540465	293
Density Standard	1.0005g/ml at 20°C	100 ml	540566	293
Density Standard	1.0301g/ml at 20°C	100 ml	540567	293
Density Standard	0.8622g/ml at 25°C	100 ml	540568	293
Density Standard	0.9438g/ml at 25°C	100 ml	540569	293
Density Standard	0.9969g/ml at 25°C	100 ml	540470	293
Density Standard	0.9245g/ml at 50°C	100 ml	540471	293
Density Standard	0.9695g/ml at 60°C	100 ml	540472	293
Density Standard	0.9815g/ml at 80°C	100 ml	540473	293
Gardner Colour Standards	Colour 2	100 ml	540701	368
Gardner Colour Standards	Colour 4	100 ml	540702	368
Gardner Colour Standards	Colour 6	100 ml	540703	368
Gardner Colour Standards	Colour 8	100 ml	540704	368
Gardner Colour Standards	Colour 10	100 ml	540705	368
Gardner Colour Standards	Colour 12	100 ml	540706	368
Gardner Colour Standards	Colour 14	100 ml	540707	368
Gardner Colour Standards	Colour 16	100 ml	540708	368
Melting point standards	Benzophenone 47 to 49°C	1 g	540001	483
Melting point standards	p-Nitrotoluene 52 to 54°C	1 g	540002	483
Melting point standards	Vanillin 81 to 83°C	1 g	540003	483
Melting point standards	Acetanilide 113 to 116°C	1 g	540014	483
Melting point standards	Benzoic Acid 121 to 123°C	1 g	540004	483
Melting point standards	Phenacetin 133 to 135°C	1 g	540005	483
Melting point standards	Salicylic Acid 158 to 160°C	1 g	540006	483
Melting point standards	Sulfanilamide 164 to 166°C	1 g	540007	483
Melting point standards	Caffeine 235 to 238°C	1 g	540008	483
Melting point standards	Carbazole 243 to 247°C	1 g	540009	483

Melting point standards	Anthraquinone 283 to 286°C	1 g	540010	483
Melting point standards	Set Sulphanilamide Caffeine Vanillin	3 x 1 g	540011	483
Melting point standards	Set Benzophenone (4749°C) Benzoic Acid (121-123°C) Anthraquinone (283-286°C)	3 x 1 g	540012	483
Melting point standards	Set Vanillin (81-83°C) Phenacetin (134-136°C) Caffeine (235-237°C)	3 x 1 g	540013	483
Osmolality Standards	100mOsm/Kg H2O	12 x 5 ml	540301	550
Osmolality Standards	1500mOsm/Kg H2O	12 x 5 ml	540302	550
Osmolality Standards	200mOsm/Kg H2O	12 x 5 ml	540303	550
Osmolality Standards	2000mOsm/Kg H2O	12 x 5 ml	540304	550
Osmolality Standards	290mOsm/Kg H2O	12 x 5 ml	540305	550
Osmolality Standards	300mOsm/Kg H2O	12 x 5 ml	540306	550
Osmolality Standards	400mOsm/Kg H2O	12 x 5 ml	540307	550
Osmolality Standards	500mOsm/Kg H2O	12 x 5 ml	540308	550
Osmolality Standards	850mOsm/Kg H2O	12 x 5 ml	540309	550
Osmolality Standards	900mOsm/Kg H2O	12 x 5 ml	540310	550
Osmolality Standards Protein Based	240mOsm/Kg H2O	12 x 5 ml	540351	550
Osmolality Standards Protein Based	280mOsm/Kg H2O	12 x 5 ml	540352	550
Osmolality Standards Protein Based	320mOsm/Kg H2O	12 x 5 ml	540353	550
Osmolality Standards Urine Based	300mOsm/Kg H2O	12 x 5 ml	540354	550
Osmolality Standards Urine Based	800mOsm/Kg H2O	12 x 5 ml	540355	550
Refractive Index standards	1.34325 at 20°C	15 ml	540101	637
Refractive Index standards	1.34782 at 20°C	15 ml	540102	637
Refractive Index standards	1.35171 at 20°C	15 ml	540103	637
Refractive Index standards	1.37233 at 20°C	15 ml	540104	637
Refractive Index standards	1.38115 at 20°C	15 ml	540105	637
Refractive Index standards	1.40978 at 20°C	15 ml	540106	637
Refractive Index standards	1.42009 at 20°C	15 ml	540107	637
Refractive Index standards	1.44193 at 20°C	15 ml	540108	637
Saybolt Colour Standards	-15	100 ml	540709	644
Saybolt Colour Standards	+0	100 ml	540710	644
Saybolt Colour Standards	+12	100 ml	540711	644
Saybolt Colour Standards	+15	100 ml	540712	644
Saybolt Colour Standards	+19	100 ml	540713	644
Saybolt Colour Standards	+25	100 ml	540714	644
Saybolt Colour Standards	+30	100 ml	540715	644
Viscosity standards	6.7cSt@20°C, 5.8cSt@25°C, 4.2cSt@37.78°C, 4cSt@40°C, 3.2cSt@50°C	500 ml	540801	785
Viscosity standards	14cSt@20°C, 12cSt@25°C, 8cSt@37.78°C, 7.5cSt@40°C, 5.8cSt@50°C	500 ml	540802	785
Viscosity standards	20cSt@20°C, 16cSt@25°C, 11cSt@37.78°C, 10cSt@40°C, 7.5cSt@50°C	500 ml	540803	785
Viscosity standards	30cSt@20°C, 24cSt@25°C, 15cSt@37.78°C, 14cSt@40°C, 10cSt@50°C	500 ml	540804	785
Viscosity standards	88cSt@20°C, 66cSt@25°C, 35cSt@37.78°C, 32cSt@40°C, 21cSt@50°C	500 ml	540805	785
Viscosity standards	160cSt@20°C, 120cSt@25°C, 60cSt@37.78°C, 54cSt@40°C, 35cSt@50°C	500 ml	540806	785
Viscosity standards	790cSt@20°C, 580cSt@25°C, 280cSt@37.78°C, 250cSt@40°C, 160cSt@50°C	500 ml	540807	785
Viscosity standards	3300cSt@20°C, 2300cSt@25°C, 1100cSt@37.78°C, 940cSt@40°C, 560cSt@50°C	500 ml	540808	785

Viscosity standards	19000cSt@20°C, 12000cSt@25°C, 4000cSt@37.78°C, 3400cSt@40°C, 1700cSt@50°C	500 ml	540809	785
Viscosity standards	28000cSt@20°C, 17000cSt@25°C, 6000cSt@37.78°C, 5100cSt@40°C, 2500cSt@50°C	500 ml	540810	785
Viscosity standards	41000cSt@20°C, 25000cSt@25°C, 8000cSt@37.78°C, 6700cSt@40°C, 3200cSt@50°C	500 ml	540811	785



**pHMETRY**

In industrial sectors as well as scientific analysis and research, the growing need for specific reagents for calibration of pH-meters, pH determination and buffering needs has led CARLO ERBA Reagents to offer the following product lines:

- Buffers in ready-to-use solution: colorless & colored
- Buffers in concentrated solution - Normex vial: colorless & colored
- pH indicators in solution
- pH indicator papers

**Buffers in colorless solution, ready-to-use**

These solutions are traceable to N.I.S.T and precisely standardized at 20°C, which makes them ideal for solving calibration problems with other solutions and preventing errors due to various factors such as the kind of salt or water used.

Description	Notes	Size	Code	Page
Ammonia buffer solution pH 10		5 l	PS0194/22	165
Ammonia buffer solution pH 10		5 l	PS0194/95	165
Buffer acetate pH 4.5		5 l	PS0784/95	216
Buffer pH 1		500 ml	486211	216
Buffer pH 1.68		500 ml	486751	216
Buffer pH 2		500 ml	486231	217
Buffer pH 3		500 ml	486251	217
Buffer pH 3		1 l	486252	217
Buffer pH 3.56		500 ml	486741	218
Buffer pH 4		500 ml	486271	218
Buffer pH 4		1 l	486273	218
Buffer pH 4		5 l	486274	218
Buffer pH 4		10 l	486276	218
Buffer pH 4.62		500 ml	486841	219
Buffer pH 5		500 ml	486311	219
Buffer pH 6		500 ml	486331	220
Buffer pH 6.88		500 ml	486871	220
Buffer pH 7		500 ml	486451	221
Buffer pH 7		1 l	486453	221
Buffer pH 7		5 l	486454	221
Buffer pH 7		10 l	486456	221
Buffer pH 7		25 l	486455	221
Buffer pH 7.20 Weise		500 ml	486411	221
Buffer pH 8		500 ml	486541	222
Buffer pH 8		1 l	486542	222
Buffer pH 9		500 ml	486591	223
Buffer pH 9		1 l	486593	223
Buffer pH 9		5 l	486594	223
Buffer pH 9.22		500 ml	486881	223
Buffer pH 10		500 ml	486611	224
Buffer pH 10		1 l	486613	224
Buffer pH 10		5 l	486614	224
Buffer pH 10		10 l	486615	224
Buffer pH 11		500 ml	486771	224
Buffer pH 11		1 l	486772	224
Buffer pH 12		500 ml	486691	225
Buffer pH 13		500 ml	486701	225
Buffer pH 13		1 l	486702	225
Phosphate buffer pH 7.4		5 l	524965	575

Phosphate buffer pH 7.4	5 l	PS0740/95	575
Phosphate buffer pH 7.2	2.5 l	525925	575
Phosphate buffer pH 7.2	25 l	525921	575
Phosphate buffer pH 6.8	10 l	524952	575

### Buffers in colored solution, ready-to-use

To enable immediate identification of the buffer, the following colored solutions, traceable to N.I.S.T, are available.

Description	Notes	Size	Code	Page
Buffer pH 4	Color: Red	500 ml	486761	218
Buffer pH 4	Color: Red	1 l	486762	218
Buffer pH 7	Color: Green	500 ml	486791	221
Buffer pH 7	Color: Green	1 l	486792	221
Buffer pH 9	Color: Blue	500 ml	PS0427/19	223
Buffer pH 10.06	Color: Blue	500 ml	486811	224
Buffer pH 10.06	Color: Blue	1 l	486812	224

### Buffers in colorless solution, NORMEX

Buffers usually consist of a diluted solution of the buffering system.

Given their usually low concentration, long-term storage of these solutions may lead to the development of mold or other inconveniences. To avoid these problems, concentrated buffer solutions packaged in polythene NORMEX vials are available.

With the aid of a 500ml volumetric flask, a funnel and a glass stirrer, each Normex buffer package can be used to prepare 500ml of buffer solution at the desired pH with a maximum error of  $\pm 0.05$  pH units. Detailed instructions for use are printed on the package of each individual Normex buffer. The correct preparation procedure provides for the use of boiled distilled water with a recommended preparation temperature of 20°C.

The characteristics of this line are:

- vial specifically designed by CARLO ERBA Reagents to meet the user's needs
- quick and simple preparation of 500ml of solution at a known pH

Description	Notes	Size	Code	Page
Buffer pH 1	To dilute to 500 ml		486221	216
Buffer pH 2	To dilute to 500 ml		486241	217
Buffer pH 3	To dilute to 500 ml		486261	217
Buffer pH 4	To dilute to 500 ml		486281	218
Buffer pH 5	To dilute to 500 ml		486301	219
Buffer pH 6	To dilute to 500 ml		486321	220
Buffer pH 6.8	To dilute to 500 ml		486401	220
Buffer pH 7	To dilute to 500 ml		486421	221
Buffer pH 7.2	To dilute to 500 ml		486441	221
Buffer pH 7.4	To dilute to 500 ml		486461	222
Buffer pH 8	To dilute to 500 ml		486531	222
Buffer pH 9	To dilute to 500 ml		486571	223
Buffer pH 10	To dilute to 500 ml		486601	224
Buffer pH 11	To dilute to 500 ml		486631	224
Buffer pH 12	To dilute to 500 ml		486621	225
Buffer pH 13	To dilute to 500 ml		486641	225

## Buffers in colored solution, NORMEX

To enable immediate identification of the buffer, the following colored concentrated buffer solutions packaged in polythene NORMEX vials are available.

The characteristics of this line are:

- vial specifically designed by CARLO ERBA Reagents to meet the user's needs
- quick and simple preparation of 500ml of solution at a known pH

Description	Notes	Size	Code	Page
Buffer pH 4	Color: red - To dilute to 500 mL		486291	219
Buffer pH 7	Color: yellow - To dilute to 500 mL		486431	221
Buffer pH 10.06	Color: blue - To dilute to 500 mL		486581	224

## pH indicators in solution

The direct method, i.e., placing the indicator in the solution being analyzed, is the most efficient and thus the most widely adopted method for acid-base titration.

Since the indicator competes with the species being titrated, its use in significant quantities may alter the result of the titration; therefore it is critically important to choose the most appropriate indicator for the type of analysis being performed.

For the determination of pH values in aqueous solutions, universal indicators in solution are available for measurements in a variety of pH ranges. These products are supplied complete with a color scale and detailed instructions for use. The sensitivity of these solutions is higher than that of pH indicator papers.

Description	Notes	Size	Code	Page
Alizarin saturated solution in ethanol		250 ml	E415932	149
Alkali Blue 6B solution 2% in ethanol		250 ml	E428541	150
Bromocresol green 0.04% hydroalcoholic solution		250 ml	E491255	211
Bromocresol purple solution 0.4% in ethanol		250 ml	E470045	212
Bromophenol blue solution 0.4% in ethanol		250 ml	E428665	213
Bromophenol blue solution 0.02%		100 ml	428691	214
Bromothymol blue 0.4% in ethanol		250 ml	E428715	215
Bromothymol blue 0.02%		100 ml	428731	215
o-Cresol Red solution 0.2% in ethanol		250 ml	E476805	283
Crystal violet solution 0.5% in anhydrous acetic acid		500 ml	E491551	284
Indicator universal pH 0-5 hydroalcoholic solution		25 ml	E455661	421
Indicator universal pH 0-5 hydroalcoholic solution		500 ml	E455662	421
Indicator universal pH 1-11 hydroalcoholic solution		25 ml	E455702	421
Indicator universal pH 1-11 hydroalcoholic solution		500 ml	E455706	421
Indicator universal pH 1-11 water solution		25 ml	E455711	422
Indicator universal pH 1-11 water solution		500 ml	E455712	422
Methylene blue solution 1%		500 ml	E429011	499
Methyl Orange solution 0.1%		500 ml	E423562	501
Methyl red solution water/ethanol 0.2%		250 ml	E476915	503
Methyl red solution 0.1% in ethanol		250 ml	E476921	504
Phenol Red solution 0.2% in ethanol		250 ml	E476845	571
Phenolphthalein solution 1% in ethanol		250 ml	451191	572
Phenolphthalein solution 1% in ethanol	Only for italian market	250 ml	E451191	572
Phenolphthalein solution 1% in ethanol		1 l	451192	572
Phenolphthalein solution 1% in ethanol	Only for italian market	1 l	E451192	572
Thymol blue 0.4% in ethanol		250 ml	E429235	757
Thymolphthalein 0.1% hydroalcoholic solution		250 ml	E487755	759
o-Tolidine solution 0.1%		1 l	488461	765
Tropaeolin O solution 0.1%		500 ml	E490056	779

## pH paper, litmus and indicator paper in rolls for special uses

Indicator papers represent a convenient and particularly simple instrument for measuring pH.

Indicator papers are actually filter paper impregnated with indicator solutions.

A wide variety of indicator papers are available, allowing the user to select the product most suited to the type of sample being analyzed and the degree of certainty required on the final result.

This is the most basic type of paper and does not require a color scale for pH determination.

This type of test paper provides a relative indication and is useful in determining whether a solution is acid, neutral or basic.

Description	Notes	Size	Code	Page
Congo red paper	Congo red paper, Color change: red --> Blue, Change pH 5.0-->3.0	1 roll	435220000	273
Litmus paper	Blue litmus paper, Color change: blue --> red, change pH 8.0 - 5.0	1 roll	435260000	466
Litmus paper	Neutral litmus paper, Color change: red <-- purple --> Blue, Change pH 5.0 - 8.0	1 roll	435300000	466
Litmus paper	Red litmus paper, Color change: red --> blue, Change pH 5.0 - 8.0	1 roll	435340000	466
Potassium iodide starch paper	Paper starch iodide, Color change: White --> Blue-purple	1 roll	434980000	608

## pH paper, high-sensitivity indicator paper in rolls

High-sensitivity test papers cover small pH ranges with a detection range of between 0.2 - 0.5 units, while the attached color scale provides the reference colors.

These test papers are suitable for measuring the pH of unbuffered or weakly buffered solutions.

Description	Notes	Size	Code	Page
Indicator papers	Monochromatic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH	1 roll	435140000	420
Indicator papers	Monochromatic scale, pH range 1.0 - 14.0, Sensitivity 1,0/2,0 pH	1 roll	435150000	420
Indicator papers	Monochromatic scale, pH range 3.8 - 5.8, Sensitivity 0.2/0.3 pH	1 roll	435161000	420
Indicator papers	Monochromatic scale. pH range 0.5 - 5.5. Sensitivity 0.5 pH	1 roll	435421000	420
Indicator papers	Monochromatic scale. pH range 4.0 - 7.0. Sensitivity 0.3 pH	1 roll	435431000	420
Indicator papers	Monochromatic scale. pH range 6.4 - 8.0. Sensitivity 0.2 pH	1 roll	435441000	420
Indicator papers	Monochromatic scale. pH range 7.2 - 9.7. Sensitivity 0.3 pH	1 roll	435451000	420
Indicator papers	Monochromatic scale. pH range 5.5 - 9.0. Sensitivity 0.5 pH	1 roll	435511000	420

## pH paper, in roll three-colored

Three-color test papers have three parallel sections with different colors, formed by three different mixtures of indicators separated by a fine hydrophobic strip to prevent any color migration. The three indicator sections ensure high-precision results that are remarkably easy to read. The reference color chart provides three different color indications for each pH unit.

Description	Notes	Size	Code	Page
Indicator papers	Trichromatic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH	1 roll	435131000	420

## pH paper strips, with built-in color scale

These indicator papers are unique in that they have the color scale provided directly on each strip, usually divided into 8 color notches with the corresponding pH indicated for each.

This allows the user to perform quick and precise pH measurements without the need for an external color guide. These test papers are also suitable for colored solutions or suspensions, since the color of the solution to be analyzed acts in the same manner on the indicator scale as it does on the result of the solution being tested.

An invisible hydrophobic strip placed just above the last color notch on the color scale forms a barrier that prevents the test liquid, which may be corrosive, toxic or otherwise dangerous, from coming into contact with the user's fingers through capillary action.

Description	Notes	Size	Code	Page
Indicator papers	pH range 1.0 - 2.8. Sensitivity 0.2/0.3	100 stripes	435493000	421
Indicator papers	pH range 1.8 - 3.8. Sensitivity 0.2/0.3	100 stripes	435494000	421
Indicator papers	pH range 3.8 - 5.5. Sensitivity 0.2/0.3	100 stripes	435496000	421
Indicator papers	pH range 6.0 - 8.1. Sensitivity 0.2/0.3	100 stripes	435498000	421
Indicator papers	pH range 8.0 - 9.7. Sensitivity 0.2/0.3	100 stripes	435502000	421

## pH paper strips, color-fixed

These indicator papers are indelible. This property depends on the chemical bond between the indicator and the cellulose fiber, and it allows the test papers to be used even in highly alkaline solutions.

The strip length allows a wide operating margin, thus preventing contact between the operator's fingers and the solution being analyzed.

Description	Notes	Size	Code	Page
Indicator papers	pH range 0.0 - 14.0, Sensitivity 1.0	100 stripes	435121000	421
Indicator papers	pH range 0.0 - 6.0. Sensitivity 0.5	100 stripes	435642000	421
Indicator papers	pH range 2.0 - 9.0. Sensitivity 0.5	100 stripes	435643000	421
Indicator papers	pH range 4.5 - 10.0. Sensitivity 0.5	100 stripes	435644000	421
Indicator papers	pH range 7.0 - 14.0. Sensitivity 0.3/0.4	100 stripes	435645000	421

## Solutions for the electrode conservation

The lifetime of a pH electrode depends on the way it is being maintained and kept. A set of solutions are used to keep electrodes accurate and durable.

Description	Notes	Size	Code	Page
Hydrofluoric acid diluted		250 ml	405775	412
Potassium chloride 3.5 mol/l (3.5N)		250 ml	471225	587
Potassium chloride 3.5 mol/l (3.5N) + silver chloride		250 ml	471245	587
Potassium chloride 3 mol/l (3N)		250 ml	471215	588
Potassium chloride 3 mol/l (3N) water-glycerol solution		250 ml	471275	588
Potassium chloride 3 mol/l (3N) + silver chloride		250 ml	471235	588
Potassium chloride saturated solution		250 ml	471265	590
Potassium chloride solution		250 ml	471285	590
Potassium nitrate 1 mol/l (1N)		250 ml	473045	610



**VOLUMETRY**

Volumetric titration is a standard analytical technique used specifically for quantitative determination of analytes in solution. Despite the numerous sophisticated instrumental innovations resulting from recent technological developments, the classical volumetric analysis technique has maintained its importance in the area of analytical chemistry.

CARLO ERBA Reagents offers different lines of volumetric solutions to meet the needs of a wide variety of users:

- Ready-to-use solutions
- Concentrated solutions in Normex vial

**Volumetric solutions, ready-to-use**

For routine analyses, our line of ready-to-use volumetric solutions is ideal for quick and convenient use with guaranteed quality. CARLO ERBA Reagents offers a wide range with exact title of the batch written on the label and certificate of analysis, provided with traceability to S.R.M. from N.I.S.T., a +/- 0.1% precision, where noted.

These solutions are available in both polythene or glass bottles, with ISO 45 bottle mouths which are adaptable to automatic titrators, as well as 10 and 5 liters Kubidos® packages supplied with tap and cap, ideal for excellent storage and dosing of the product.

Kubidos® consists of a cubic box containing a HDPE, a tap and cap ensuring easy flow of the required volume.

With the low volume of product in contact with air, the risks of carbonation of alkaline solutions and microbial contamination are limited.

Description	Notes	Size	Code	Page
Acetic acid 1 mol/l (1N)		5 l	524605	136
Acetic acid 1 mol/l (1N)		1 l	502000	136
Acetic acid 0.1 mol/l (0.1N)		1 l	P3100015	136
Ammonium thiocyanate 1 mol/l (1N)		500 ml	420946	179
Ammonium thiocyanate 0.1 mol/l (0.1N)		1 l	420977	179
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Certified with NIST traceability	1 l	405511000	346
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Certified with NIST traceability	5 l	405513000	346
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Certified with NIST traceability	5 l	405514000	346
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Certified with NIST traceability	10 l	405512000	346
Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)	Certified with NIST traceability	1 l	405501000	347
Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)	Certified with NIST traceability	5 l	405502000	347
Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)	Certified with NIST traceability	1 l	405442000	347
Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)	Certified with NIST traceability	5 l	405443000	347
Hydrochloric acid 2 mol/l (2N)	Certified with NIST traceability	1 l	404067000	403
Hydrochloric acid 2 mol/l (2N)	Certified with NIST traceability	5 l	404062000	403
Hydrochloric acid 2 mol/l (2N)	Certified with NIST traceability	10 l	404061000	403
Hydrochloric acid 1 mol/l (1N)		5 l	528673	404
Hydrochloric acid 1 mol/l (1N)	Certified with NIST traceability	1 l	404097000	404
Hydrochloric acid 1 mol/l (1N)	Certified with NIST traceability	5 l	404092000	404
Hydrochloric acid 1 mol/l (1N)	Certified with NIST traceability	10 l	404091000	404
Hydrochloric acid 0.5 mol/l (0.5N)	Certified with NIST traceability	1 l	404147000	405
Hydrochloric acid 0.5 mol/l (0.5N)	Certified with NIST traceability	5 l	404142000	405
Hydrochloric acid 0.5 mol/l (0.5N)	Certified with NIST traceability	10 l	404141000	405
Hydrochloric acid 0.2 mol/l (0.2N) in propanol-2		1 l	526535	405
Hydrochloric acid 0.1 mol/l (0.1N)	Certified with NIST traceability	1 l	404197000	406
Hydrochloric acid 0.1 mol/l (0.1N)	Certified with NIST traceability	5 l	404192000	406
Hydrochloric acid 0.1 mol/l (0.1N)	Certified with NIST traceability	10 l	404191000	406
Hydrochloric acid 0.1 mol/l (0.1N)	Certified with NIST traceability	10 l	404195000	406
Hydrochloric acid 0.1 mol/l (0.1N) in propanol-2		1 l	526536	407
Hydrochloric acid 0.05 mol/l (0.05N)		1 l	PS0587/15	407

Hydrochloric acid 0.04 mol/l (0.04N)		10 l	PS0206/41	408
Hydrochloric acid 0.02 mol/l (0.02N)		1 l	PS0342/15	408
Hydrochloric acid 0.02 mol/l (0.02N)		5 l	526537	408
Hydrochloric acid 0.01 mol/l (0.01N)	Certified with NIST traceability	1 l	404267	408
Hydrofluoric acid 0.1 mol/l		1 l	507410	412
Iodine 0.5 mol/l (1N)	Certified with NIST traceability	500 ml	456135000	425
Iodine 0.5 mol/l (1N)	Certified with NIST traceability	1 l	456137000	425
Iodine 0.05 mol/l (0.1N)	Certified with NIST traceability	500 ml	456036000	425
Iodine 0.05 mol/l (0.1N)	Certified with NIST traceability	1 l	456037000	425
Lithium methoxide 0.1 mol/l (0.1N)		500 ml	E458321	464
Nitric acid 2 mol/l (2N)	Certified with NIST traceability	5 l	408185000	533
Nitric acid 1 mol/l (1N)	Certified with NIST traceability	500 ml	408176000	533
Nitric acid 1 mol/l (1N)	Certified with NIST traceability	1 l	408171000	533
Nitric acid 0.1 mol/l (0.1N)	Certified with NIST traceability	500 ml	408206000	533
Oxalic acid 0.5 mol/l (1N)		500 ml	408826	551
Oxalic acid 0.05 mol/l (0.1N)		500 ml	408856	551
Perchloric acid 0.1 mol/l (0.1N) in acetic acid	Certified with NIST traceability	500 ml	409136	562
Perchloric acid 0.1 mol/l (0.1N) in acetic acid	Certified with NIST traceability	1 l	409131	562
Perchloric acid 0.01 mol/l (0.01N)		500 ml	E409141	562
Potassium hydroxide 1 mol/l (1N)	Certified with NIST traceability	1 l	472287000	602
Potassium hydroxide 1 mol/l (1N)	Certified with NIST traceability	5 l	472282000	602
Potassium hydroxide 1 mol/l (1N)	Certified with NIST traceability	10 l	472281000	602
Potassium hydroxide 0.5 mol/l (0.5N)	Certified with NIST traceability	1 l	472337000	602
Potassium hydroxide 0.5 mol/l (0.5N)	Certified with NIST traceability	5 l	472332000	602
Potassium hydroxide 0.5 mol/l (0.5N)	Certified with NIST traceability	10 l	472331000	602
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	Certified with NIST traceability	1 l	472021000	603
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	Certified with NIST traceability	1 l	472022000	603
Potassium hydroxide 0.5 mol/l (0.5N) in methanol	Certified with NIST traceability	500 ml	472366000	603
Potassium hydroxide 0.5 mol/l (0.5N) in methanol	Certified with NIST traceability	1 l	472364000	603
Potassium hydroxide 0.5 mol/l (0.5N) in methanol	Certified with NIST traceability	5 l	472367000	603
Potassium hydroxide 0.25 mol/l (0.25N)	Certified with NIST traceability	1 l	472427000	604
Potassium hydroxide 0.25 mol/l (0.25N)	Certified with NIST traceability	5 l	472422000	604
Potassium hydroxide 0.25 mol/l (0.25N)	Certified with NIST traceability	10 l	472421000	604
Potassium hydroxide 0.1 mol/l (0.1N)	Certified with NIST traceability	1 l	472457000	605
Potassium hydroxide 0.1 mol/l (0.1N)	Certified with NIST traceability	5 l	472452000	605
Potassium hydroxide 0.1 mol/l (0.1N)	Certified with NIST traceability	10 l	472451000	605
Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	Certified with NIST traceability	1 l	472041000	605
Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	Certified with NIST traceability	1 l	472042000	605
Potassium hydroxide 0.1 mol/l (0.1N) in methanol	Certified with NIST traceability	500 ml	472486000	605
Potassium hydroxide 0.1 mol/l (0.1N) in methanol	Certified with NIST traceability	1 l	472484000	605
Potassium permanganate 0.2 mol/l (1N)	Certified with NIST traceability	1 l	473514000	612
Potassium permanganate 0.02 mol/l (0.1N)	Certified with NIST traceability	1 l	473567000	612
Potassium permanganate 0.02 mol/l (0.1N)	Certified with NIST traceability	5 l	473565000	612
Potassium thiocyanate 0.1 mol/l (0.1N)		1 l	E474417	620
Silver nitrate 1 mol/l (1N)	Certified with NIST traceability	500 ml	424036000	656
Silver nitrate 1 mol/l (1N)	Certified with NIST traceability	1 l	424035000	656
Silver nitrate 0.5 mol/l (0.5N)	Certified with NIST traceability	1 l	424051000	656
Silver nitrate 0.1 mol/l (0.1N)	Certified with NIST traceability	1 l	424067000	657
Silver nitrate 0.1 mol/l (0.1N)	Certified with NIST traceability	5 l	424062000	657
Silver nitrate 0.1 mol/l (0.1N)	Certified with NIST traceability	5 l	424063000	657

Silver nitrate 0.1 mol/l (0.1N)	Certified with NIST traceability	10 l	424061000	657
Silver nitrate 0.1 mol/l (0.1N) in 2-propanol		1 l	PS0250/16	657
Silver nitrate 0.05 mol/l (0.05N)	Certified with NIST traceability	1 l	424101000	657
Silver nitrate 0.01 mol/l (0.01N)		1 l	PS0030/15	658
Silver nitrate 0.01 mol/l (0.01N) in propanol-2		1 l	PS0252/16	658
Sodium carbonate 0.5 mol/l (1N)		500 ml	479186	669
Sodium hydroxide 2 mol/l (2N)	Certified with NIST traceability	500 ml	480686000	686
Sodium hydroxide 2 mol/l (2N)	Certified with NIST traceability	1 l	480687000	686
Sodium hydroxide 2 mol/l (2N)	Certified with NIST traceability	5 l	480682000	686
Sodium hydroxide 2 mol/l (2N)	Certified with NIST traceability	10 l	480681000	686
Sodium hydroxide 2 mol/l (2N)	Certified with NIST traceability	20 l	480684000	686
Sodium hydroxide 1 mol/l (1N)	Certified with NIST traceability	1 l	480717000	687
Sodium hydroxide 1 mol/l (1N)	Certified with NIST traceability	5 l	480711000	687
Sodium hydroxide 1 mol/l (1N)	Certified with NIST traceability	5 l	480714000	687
Sodium hydroxide 1 mol/l (1N)	Certified with NIST traceability	10 l	480713000	687
Sodium hydroxide 0.5 mol/l (0.5N)	Certified with NIST traceability	1 l	480777000	688
Sodium hydroxide 0.5 mol/l (0.5N)	Certified with NIST traceability	5 l	480771000	688
Sodium hydroxide 0.5 mol/l (0.5N)	Certified with NIST traceability	10 l	480772000	688
Sodium hydroxide 0.5 mol/l (0.5N)	Certified with NIST traceability	10 l	480773000	688
Sodium hydroxide 0.25 mol/l (0.25N)	Certified with NIST traceability	1 l	480867000	688
Sodium hydroxide 0.25 mol/l (0.25N)	Certified with NIST traceability	5 l	480861000	688
Sodium hydroxide 0.25 mol/l (0.25N)	Certified with NIST traceability	10 l	480862000	688
Sodium hydroxide 0.2 mol/l (0.2N)		1 l	P3440015	689
Sodium hydroxide 0.1 mol/l (0.1N)	Certified with NIST traceability	1 l	480897000	690
Sodium hydroxide 0.1 mol/l (0.1N)	Certified with NIST traceability	5 l	480891000	690
Sodium hydroxide 0.1 mol/l (0.1N)	Certified with NIST traceability	10 l	480892000	690
Sodium hydroxide 0.1 mol/l (0.1N)	Certified with NIST traceability	10 l	480893000	690
Sodium hydroxide 0.01 mol/l (0.01N)		1 l	PS0215/15	690
Sodium thiosulfate 0.5 mol/l (0.5N)		1 l	P3530015	712
Sodium thiosulfate 0.2 mol/l (0.2N)		5 l	P3520022	712
Sodium thiosulfate 0.1 mol/l (0.1N)	Certified with NIST traceability	1 l	484077000	712
Sodium thiosulfate 0.1 mol/l (0.1N)	Certified with NIST traceability	5 l	484072000	712
Sodium thiosulfate 0.1 mol/l (0.1N)	Certified with NIST traceability	10 l	484071000	712
Sulfuric acid 1 mol/l (2N)	Certified with NIST traceability	1 l	410547000	738
Sulfuric acid 1 mol/l (2N)	Certified with NIST traceability	10 l	410548000	738
Sulfuric acid 0.5 mol/l (1N)	Certified with NIST traceability	1 l	410577000	738
Sulfuric acid 0.5 mol/l (1N)	Certified with NIST traceability	5 l	410572000	738
Sulfuric acid 0.5 mol/l (1N)	Certified with NIST traceability	5 l	410575000	738
Sulfuric acid 0.5 mol/l (1N)	Certified with NIST traceability	10 l	410571000	738
Sulfuric acid 0.25 mol/l (0.5N)	Certified with NIST traceability	1 l	410667000	739
Sulfuric acid 0.25 mol/l (0.5N)	Certified with NIST traceability	5 l	410663000	739
Sulfuric acid 0.25 mol/l (0.5N)	Certified with NIST traceability	10 l	410662000	739
Sulfuric acid 0.125 mol/l (0.25N)		5 l	PS0445/22	740
Sulfuric acid 0.05 mol/l (0.1N)	Certified with NIST traceability	1 l	410717000	741
Sulfuric acid 0.05 mol/l (0.1N)	Certified with NIST traceability	5 l	410712000	741
Sulfuric acid 0.05 mol/l (0.1N)	Certified with NIST traceability	10 l	410711000	741
Sulfuric acid 0.05 mol/l (0.1N)	Certified with NIST traceability	10 l	410715000	741
Sulfuric acid 0.025 mol/l (0.05N)		10 l	PS0016/96	741
Sulfuric acid 0.02 mol/l (0.04N)		1 l	PS0219/15	741
Sulfuric acid 0.02 mol/l (0.04N)		5 l	PS0219/95	741

Sulfuric acid 0.02 mol/l (0.04N)	10 l	PS0219/96	741
Sulfuric acid 0.01 mol/l (0.02N)	1 l	PS0047/15	741
Sulfuric acid 0.005 mol/l (0.01N)	5 l	PS0026/95	742
Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol	500 ml	E487031	749
Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in methanol / propanol-2 (50/50)	1 l	P3840016	750
Zinc sulfate 0.1 mol/l (0.2N)	1 l	494921	803
Zinc sulfate 0.05 mol/l (0.05N)	1 l	494931	803

## NORMEX, concentrated volumetric solutions

CARLO ERBA Reagents also offers a series of concentrated volumetric solutions packaged in convenient NORMEX vials. These are ideal for users who would like to prepare solutions immediately before the analysis in a rapid and precise manner. The contents of each vial, brought to a volume of 1000ml with distilled water, allows the user to prepare volumetric solutions at a known concentration with a guaranteed titration factor equal to  $\pm 0.005$ .

Description	Notes	Size	Code	Page
Acetic acid 0.1 mol/l (0.1N)	Volume: 55 ml		401561	136
Ammonium thiocyanate 0.1 mol/l (0.1N)	Volume: 55 ml		421001	179
Ammonium thiocyanate 0.01 mol/l (0.01N)	Volume: 55 ml		421061	179
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Volume: 165 ml		405421	346
Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)	Volume: 55 ml		405431	347
Hydrochloric acid 1 mol/l (1N)	Volume: 165 ml		404111	404
Hydrochloric acid 0.5 mol/l (0.5N)	Volume: 165 ml		404161	405
Hydrochloric acid 0.1 mol/l (0.1N)	Volume: 55 ml		404211	406
Hydrochloric acid 0.01 mol/l (0.01N)	Volume: 55 ml		404251	408
Iodine 0.05 mol/l (0.1N)	Volume: 60 ml		456051	426
Iodine 0.005 mol/l (0.01N)	Volume: 60 ml		456121	426
Nitric acid 0.1 mol/l (0.1N)	Volume: 55 ml		408231	533
Oxalic acid 0.05 mol/l (0.1N)	Volume: 165 ml		408871	551
Oxalic acid 0.005 mol/l (0.01N)	Volume: 55 ml		408901	551
Potassium bromate 0.0167 mol/l (0.1N)	Volume: 60 ml		470681	585
Potassium dichromate 0.0167 mol/l (0.1N)	Volume: 60 ml		470501	593
Potassium hydroxide 1 mol/l (1N)	Volume: 165 ml		472311	602
Potassium hydroxide 0.5 mol/l (0.5N)	Volume: 55 ml		472391	603
Potassium hydroxide 0.1 mol/l (0.1N)	Volume: 55 ml		472511	605
Potassium iodate 0.0167 mol/l (0.1N)	Volume: 60 ml		472601	606
Potassium iodate 0.00167 mol/l (0.01N)	Volume: 60 ml		472631	607
Potassium permanganate 0.02 mol/l (0.1N)	Volume: 65 ml		473591	612
Potassium permanganate 0.002 mol/l (0.01N)	Volume: 60 ml		473661	613
Silver nitrate 0.1 mol/l (0.1N)	Volume: 60 ml		424081	657
Silver nitrate 0.01 mol/l (0.01N)	Volume: 60 ml		424161	658
Sodium arsenite 0.05 mol/l (0.1N)	Volume: 60 ml		402381	664
Sodium carbonate 0.05 mol/l (0.1N)	Volume: 55 ml		479211	669
Sodium chloride 0.1 mol/l (0.1N)	Volume: 55 ml		479781	672
Sodium hydroxide 1 mol/l (1N)	Volume: 165 ml		480741	687
Sodium hydroxide 0.5 mol/l (0.5N)	Volume: 55 ml		480801	688
Sodium hydroxide 0.1 mol/l (0.1N)	Volume: 55 ml		480921	690
Sodium hydroxide 0.01 mol/l (0.01N)	Volume: 55 ml		481001	690
Sodium thiosulfate 0.1 mol/l (0.1N)	Volume: 55 ml		484121	713
Sodium thiosulfate 0.01 mol/l (0.01N)	Volume: 55 ml		484161	713

Sulfuric acid 0.5 mol/l (1N)	Volume: 165 ml	410591	738
Sulfuric acid 0.25 mol/l (0.5N)	Volume: 55 ml	410681	739
Sulfuric acid 0.05 mol/l (0.1N)	Volume: 55 ml	410731	741
Sulfuric acid 0.005 mol/l (0.01N)	Volume: 55 ml	410791	742





## FOOD ANALYSIS

Rigorous control of all the products in the food chain (milk, cereals, meats, fruits and vegetables) has recently become even more important to prevent problems associated with the adulteration of foodstuffs as well as to guarantee that all the necessary elements for a healthy diet are present in the food we eat every day.

## Reagents for food analysis: Milk, Olive Oil, Wine & more

In order to offer its customers ready-to-use reagents prepared in compliance with the specifications set forth by international standards and regulations for food analysis, CARLO ERBA Reagents has developed a wide range of products dedicated to the agriculture and food sector.

Description	Notes	Size	Code	Page
Acetic acid 27%		5 l	508645	135
Acetic acid 20%		10 l	PS0237/41	135
Acetone / water 98/2 (v/v) with bromophenol blue 0.02 g/l		5 l	PS0852/29	141
ADF Solution		2.5 l	526625	147
ADF Solution		10 l	526623	147
Amidoschwarz 10B solution		5 l	502050	157
Amidoschwarz 10B solution		10 l	502051	157
n-Amyl alcohol		1 l	413783	180
tert-Amyl alcohol		250 ml	413941	180
tert-Amyl alcohol		1 l	413944	180
Boric acid 4%		5 l	502002	206
Boric acid 4% with indicator		5 l	502601	206
Boric acid 3%		2.5 l	PS0563/21	206
Boric acid 1% with indicator		5 l	502611	207
Boric acid 1% with indicator		10 l	502612	207
Boric acid 20g/l		5 l	PS0703/22	207
Boric acid 20 g/l with indicator		5 l	PS0562/22	207
Boric buffer solution		10 l	PS0226/41	207
Carrez reagent potassium salt		1 l	502711	249
Carrez reagent zinc salt		1 l	502701	249
Fehling's A reagent		500 ml	449926	353
Fehling's A reagent		1 l	449927	353
Fehling's B reagent		500 ml	E449936	353
Fehling's B reagent		1 l	E449937	353
Folin-Ciocalteu's reagent		500 ml	E463562	358
Griess' reagent		1 l	454481	376
Griess' reagent A		500 ml	454452	376
Griess' reagent B		500 ml	454462	376
Hanus's reagent		1 l	E454872	379
Hydrochloric acid 50% v/v		1 l	504571	393
Hydrochloric acid 26%		2.5 l	PS0769/20	398
Hydrochloric acid 20%		5 l	PS0751/29	399
Hydrochloric acid 12%		5 l	PS0347/22	399
Hydrochloric acid 12%		25 l	PS0347/49	399
Hydrochloric acid 10%		10 l	PS0768/41	400
Hydrochloric acid 1.128% m/v		1 l	502761	401
Hydrochloric Acid 9 mol/l (9N)		2.5 l	PS0313/20	401
Hydrochloric acid 6 mol/l (6N)		1 l	502831	401
Hydrochloric acid 6 mol/l (6N)		18 l	502832	401
Hydrochloric acid 6 mol/l (6N)		5 l	528550000	401

Hydrochloric acid 5 mol/l (5N)		1 l	P3160015	402
Hydrochloric acid 5 mol/l (5N)		5 l	P3160095	402
Hydrochloric acid 4 mol/l (4N)		1 l	502010	402
Hydrochloric acid 4 mol/l (4N)		1 l	PS0589/15	402
Hydrochloric acid 4 mol/l (4N)		5 l	PS0589/22	402
Hydrochloric acid 3 mol/l (3N)		1 l	502621	403
Hydrochloric acid 3 mol/l (3N)		2.5 l	502622	403
Hydrochloric acid 3 mol/l (3N)		25 l	502011	403
Hydrochloric acid 0.714 mol/l (N/1.4)		10 l	526531	404
Hydrochloric acid 0.2 mol/l (0.2N)		1 l	502631	405
Hydrochloric acid 0.0714 mol/l (N/14)		10 l	526533	407
Hydrogen peroxide solution 30%		5 l	502044	414
Isoamyl alcohol	With indicator	500 ml	E413903	436
Isoamyl alcohol	Without indicator	1 l	413892	436
Isoamyl alcohol		500 ml	413801	436
Mixture C.H.M.		2.5 l	524411	507
Mixture C.H.M.		5 l	524412	507
Mix Diethyl ether/Ethanol 70/30 w/w		1 l	463251	507
Mix Diethyl ether/Ethanol 70/30 w/w		2.5 l	463255	507
Mix Diethyl ether / Ethanol 95% 50/50(w/w) - 30 mg/l phenolphthaleine		5 l	529371	507
Mix Ethanol absolute/Diethyl ether 50/50 (w/w)		5 l	529311	507
Mix Ethanol absolute/Diethyl ether 50/50 (v/v)		5 l	529381	508
Mixture for checking solderings		5 l	502671	509
NDF Plus solution		25 l	526941	519
NDF Solution		2.5 l	526920	519
NDF Solution		25 l	526921	519
Nessler's reagent single solution		500 ml	464231	520
Nessler's reagent single solution		1 l	464232	520
Nessler's reagent solution A		500 ml	464422	520
Nessler's reagent solution B		500 ml	464432	521
Nitric acid 8 mol/l (8N)		2.5 l	PS0311/20	532
Potassium chromate 5% solution		1 l	502681	591
Potassium hydroxide solution 33%		5 l	PS0766/22	601
Potassium hydroxide 0.46 mol/l (0.46N)		5 l	502212	604
Potassium hydroxide 0.23 mol/l (0.23N)		5 l	502092	604
Reagent for lipolysis		2.5 l	524910	635
Sand of Fontainebleau		1 kg	502064	644
Sand of Fontainebleau		5 kg	502063	644
Sand of Fontainebleau		25 kg	502062	644
Selenic mixture		250 g	463421	646
Selenic mixture		1 kg	463422	646
Sodium chloride 5 mol/l (5N)		1 l	502131	672
Sodium hydroxide solution 50%		10 l	P4540041	680
Sodium hydroxide solution 50%		25 l	P4540049	680
Sodium hydroxide solution 40%		5 l	502721	680
Sodium hydroxide solution 40%		10 l	502722	680
Sodium hydroxide solution 35-37%		5 l	502112	681
Sodium hydroxide solution 35%		1 l	480591	681
Sodium hydroxide solution 35%		25 kg	480593	681

Sodium hydroxide solution 32%	25 kg	524510	681
Sodium hydroxide solution 32%	1 l	480561	681
Sodium hydroxide solution 32%	2.5 l	480566	681
Sodium hydroxide solution 32%	5 l	526521	681
Sodium hydroxide solution 32%	10 l	480564	681
Sodium hydroxide solution 32%	25 kg	480562	681
Sodium hydroxide solution 32%	30 kg	480563	681
Sodium hydroxide solution 30%	5 l	502741	682
Sodium hydroxide solution 30%	1 l	502731	682
Sodium hydroxide solution 20% w/v	10 l	524505	683
Sodium hydroxide solution 20% w/w	1 l	480621	683
Sodium hydroxide solution 20% w/w	30 kg	480622	683
Sodium hydroxide solution 10% w/v	5 l	508615	683
Sodium hydroxide solution 10% w/v	5 l	524506	684
Sodium hydroxide solution 10% w/v	10 l	524507	684
Sodium hydroxide solution 10% w/v	5 l	526642	684
Sodium hydroxide solution 10% w/v	10 l	526641	684
Sodium hydroxide solution 10% w/v	50 l	526644	684
Sodium hydroxide solution 5% w/v	5 l	524502	684
Sodium hydroxide solution 5% w/v	10 l	524501	684
Sodium hydroxide solution 5% w/v	5 l	526632	684
Sodium hydroxide solution 5% w/v	10 l	526634	684
Sodium hydroxide 5 mol/l (5N)	1 l	526513	685
Sodium hydroxide 5 mol/l (5N)	5 l	526512	685
Sodium hydroxide 4 mol/l (4N)	2.5 l	502662	685
Sodium hydroxide 4 mol/l (4N)	10 l	502664	685
Sodium hydroxide 0.7 mol/l (N/1.4)	10 l	526511	687
Sodium hydroxide 0.357 mol/l (0.357N)	Certified with NIST traceability	1 l	480837000
Sodium hydroxide 0.2 mol/l (0.2N)	500 ml	502782	689
Sodium hydroxide 0.2 mol/l (0.2N)	10 l	502781000	689
Sodium thiosulfate 0.0394 mol/l (0.0394N)	2.5 l	484141	713
Sodium thiosulfate 0.0197 mol/l (0.0197N)	2.5 l	484155	713
Sulfuric acid 98%	1 l	410421	730
Sulfuric acid 98%	2.5 l	502641	730
Sulfuric acid 90%	1 l	410391	734
Sulfuric acid 90%	2.5 l	410394	734
Sulfuric acid 85%	1 l	PS0433/15	734
Sulfuric acid 72%	2.5 l	502771	735
Sulfuric acid 69%	2.5 l	PS0893/21	735
Sulfuric acid 62%	2.5 l	PS0894/21	735
Sulfuric acid 50%	1 l	E306702	735
Sulfuric acid 50%	5 l	528541	735
Sulfuric acid 50%	35 kg	E306704	735
Sulfuric acid 30%	1 l	PS0009/15	736
Sulfuric acid 25%	1 l	504562	736
Sulfuric acid 25%	2.5 l	PS0212/21	736
Sulfuric acid 20%	1 l	410511000	736
Sulfuric acid 10% v/v	1 l	502591	737
Sulfuric acid 4 mol/l (8N)	1 l	526741	737
Sulfuric acid 2.5 mol/l (5N)	1 l	P3240015	737

Sulfuric acid 0.33 mol/l (2N/3)	1 l	410634	738
Sulfuric acid 0.26 mol/l (0.52N)	5 l	502202	739
Sulfuric acid 0.166 mol/l (0.333N)	1 l	PS0217/15	739
Sulfuric acid 0.13 mol/l (0.26N)	5 l	502651	740
Sulfuric acid 0.1 mol/l (0.2N)	1 l	502100000	740
Sulfuric acid d=1.820	5 l	502020	743
Wijs' reagent	250 ml	E491901	790
Wijs' reagent	1 l	E491902	790

## Kjeldahl, Nitrogen content

For the determination of the nitrogen content using the Kjeldahl method, the following mineralization catalysts are available.

Description	Notes	Size	Code	Page
Kjeldahl antifoam	Composition: Sodium sulfate 0.97 g/Silicone antifoam 0.03 g	1000 x 1 g	502811	449
Kjeldahl catalyst according to Wieninger	Composition: Sodium sulfate 4.88 g/ Copper sulfate 0.07 g/ Selenium 0.05 g	1000 x 5 g	502821	450
Kjeldahl catalyst for water analysis	Composition: Potassium sulfate 5.0 g/Selenium 5 mg	1000 x 5 g	502121	450
Kjeldahl catalyst for water analysis	Composition: Potassium sulfate 5.0 g/Selenium 50 mg	1000 x 5 g	502122	450
Kjeldahl catalyst without selenium and titanium	Composition: Potassium sulfate 3.50 g/Copper sulfate 0.40 g	1000 x 3.9 g	502791	450
Kjeldahl catalyst without selenium and titanium	Composition: Potassium sulfate 5.0 g/Copper sulfate 0.50 g	1000 x 5 g	502792	450
Kjeldahl selenium catalyst	Composition: Potassium sulfate 4.63 g/Copper sulfate 0.28 g/Selenium 0.09g	1000 x 5 g	502120	450
Kjeldahl titanium catalyst	Composition: Potassium sulfate 3.5 g/Copper sulfate 0.105 g/Titane dioxide 0.105 g	1000 x 3.5 g	502123	451
Kjeldahl titanium catalyst	Composition: Potassium sulfate 5.00 g/Copper sulfate 0.15 g/Titane dioxide 0.15 g	500 x 5 g	502802	451



## ELECTRONICS

CARLO ERBA Reagents line of products for the electronics industry, is characterized by high chemical purity. As they are subjected to meticulous filtration processes, these solvents guarantee a particulate content less than 250 ppm, for particles with diameters larger than 0.5 micron.

## RSE, Special Solvents & Reagents

RSE (Special Reagents for Electronics) for all applications which do not require control of particle content.

Description	Notes	Size	Code	Page
Acetic acid glacial		1 l	401463	131
Acetic acid glacial		2.5 l	401462	131
Acetone		1 l	401051	139
Acetone		2.5 l	401058	139
Acetone		5 l	401054	139
Acetone		5 l	401055	139
Acetone		22 kg	401052	139
Ammonia solution 30%		1 l	420071	160
Ammonia solution 30%		2 l	420073	160
Ammonia solution 30%		5 l	420077	160
Ammonia solution 30%		25 kg	420075	160
Ammonia solution 25%		5 l	420085	162
Ammonia solution 25%		25 kg	420084	162
Dichloromethane		1 l	463162	303
Dichloromethane		2.5 l	463161	303
Ethanol absolute anhydrous	Only for Italian market	1 l	414587	332
Ethanol absolute anhydrous		1 l	4145872	332
Ethanol absolute anhydrous	Only for Italian market	2.5 l	414583	332
Ethanol absolute anhydrous		2.5 l	4145832	332
Ethyl acetate		1 l	448307	342
Ethyl acetate		2.5 l	448308	342
Ethyl acetate		5 l	448306	342
Glycerol (30°Bé)		1 l	453771	372
Glycerol (30°Bé)		2.5 l	453772	372
Hydrochloric acid 37%		1 l	403977	394
Hydrochloric acid 37%		2.5 l	403971	394
Hydrofluoric acid 50%		1 l	405737	410
Hydrogen peroxide solution 30%		1 l	412161	414
Hydrogen peroxide solution 30%		5 l	412162	414
Hydrogen peroxide solution 30%		25 kg	412163	414
Isopar G		2.5 l	526151	440
Methanol		1 l	414917	490
Methanol		2.5 l	414914	490
Nitric acid 69.5%		1 l	408097	528
Nitric acid 69.5%		2.5 l	408098	528
Nitric acid 65%		1 l	408101	531
Nitric acid 65%		2.5 l	408102	531
Nitric acid 18%		1 l	408191	532
Orthophosphoric acid 85%		1 l	406022	548
Orthophosphoric acid 85%		2.5 l	406021	548
Potassium hydroxide, pellets		1 kg	472097	599



Potassium hydroxide solution 45%	5 l	472103	600
Propan-2-ol	1 l	415237	625
Propan-2-ol	2.5 l	415235	625
Propan-2-ol	5 l	415231	625
Propan-2-ol	5 l	415238	625
Propan-2-ol	27 l	415236	625
Propan-2-ol	200 l	415233	625
Sodium hydroxide, pellets	1 kg	480527	679
Sodium hydroxide, pellets	5 kg	480522	679
Sodium hydroxide, pellets	25 kg	480525	679
Sulfuric acid 96%	1 l	410374	731
Sulfuric acid 96%	2.5 l	410371	731
Xylene, mix of isomers	1 l	492358	791
Xylene, mix of isomers	2.5 l	492359	791

## MOS (Metal Oxide Semiconductor) Solvents & Reagents

MOS (Metal Oxide Semiconductor) for MOS circuit production processes.

Description	Notes	Size	Code	Page
Acetone		1 l	401042	140
Acetone		2.5 l	401041	140
Ammonia solution 25%		1 l	420051	162
Ammonia solution 25%		2.5 l	420052	162
Hydrochloric acid 37%		1 l	403942	394
Hydrochloric acid 37%		2.5 l	403941	394
Hydrofluoric acid 50%		1 l	405653	410
Hydrogen peroxide solution 30%		1 l	412081	414
Methanol		1 l	414822	491
Methanol		2.5 l	414821	491
Nitric acid 69.5%		1 l	408151	528
Nitric acid 69.5%		2.5 l	408152	528
Propan-2-ol		1 l	415162	625
Propan-2-ol		2.5 l	415161	625
Sulfuric acid 96%		1 l	410382	732
Sulfuric acid 96%		2.5 l	410381	732

## VLSI (Very Large Scale Integration) Solvents & Reagents

VLSI (Very Large Scale Integration) for the production of microcircuits using VLSI technology.

Description	Notes	Size	Code	Page
Acetone		1 l	527651	139
Acetone		2.5 l	527650	139
Acetone		5 l	527655	139
Ethanol absolute anhydrous		1 l	527681	332
Ethanol absolute anhydrous		2.5 l	527680	332
Hydrochloric acid 37%		1 l	527601	394
Hydrochloric acid 37%		2.5 l	527600	394
Hydrogen peroxide solution 30%		1 l	527621	414
Hydrogen peroxide solution 30%		2.5 l	527620	414
Methanol		1 l	527641	490
Methanol		2.5 l	527640	490

Nitric acid 69.5%	1 l	527671	528
Nitric acid 69.5%	2.5 l	527670	528
Orthophosphoric acid 85%	1 l	527592	547
Orthophosphoric acid 85%	2.5 l	527591	547
Propan-2-ol	1 l	527696	624
Propan-2-ol	2.5 l	527690	624
Propan-2-ol	30 l	527691	624
Sulfuric acid 96%	1 l	527631	731
Sulfuric acid 96%	2.5 l	527630	731

**HISTOLOGY, HEMATOLOGY AND CYTODIAGNOSTIC**

A wide range of products for the sample preparation in histology, hematology and cytodiagnosis.

**Fixing media**

CARLO ERBA Reagents offers a wide range of fixatives, in concentrated or ready-to-use diluted form.

Description	Notes	Size	Code	Page
Fixative AFA liquid	60 ml jars filled at 30 ml. Box of 500	480 x 30 ml	508840	354
Fixative AFA liquid	In Vitro Diagnostic Medical Device	1 l	526267	354
Fixative AFA liquid	In Vitro Diagnostic Medical Device	5 l	526263001	354
Fixative Bouin Hollande liquid		1 l	526268	355
Fixative Bouin liquid	In Vitro Diagnostic Medical Device	1 l	526270	355
Fixative Bouin liquid	In Vitro Diagnostic Medical Device	5 l	526261	355
Fixative Bouin liquid	In Vitro Diagnostic Medical Device	25 l	526311	355
Fixative Bouin liquid	In Vitro Diagnostic Medical Device	1 l	429751	355
Fixative Davidson liquid	60 ml jars filled at 30 ml. Box of 500	30 ml	508881	355
Fixative Davidson liquid		5 l	526277	355
Fixative FIXALL-HIS liquid		5 l	526274	356
Fixative liquid without acetic acid		10 l	526264	356
Formaldehyde 37% w/v		1 l	415661	358
Formaldehyde 37% w/v		2.5 l	415666	358
Formaldehyde 37% w/v		5 l	415667	358
Formaldehyde 37% w/v neutralized		1 l	415686	359
Formaldehyde 37% w/v neutralized		5 l	415682	359
Formaldehyde 37% w/v neutralized		10 kg	415683	359
Formaldehyde 37% w/v neutralized		30 kg	415684	359
Formaldehyde 37% w/v neutralized		55 kg	415685	359
Formaldehyde 10% v/v according to Lillie		5 l	526912	360
Formaldehyde 10% v/v according to Lillie		25 l	526911	360
Formaldehyde 5% w/v buffered at pH 6.9		5 l	415674	360
Formaldehyde 5% w/v buffered at pH 6.9		10 l	415672	360
Formaldehyde 4% w/v buffered at pH 6.9	In Vitro Diagnostic Medical Device	1 l	415634	361
Formaldehyde 4% w/v buffered at pH 6.9	In Vitro Diagnostic Medical Device	5 l	415631	361
Formaldehyde 4% w/v buffered at pH 6.9	In Vitro Diagnostic Medical Device	10 l	415633	361
Formaldehyde 4% w/v buffered at pH 6.9	In Vitro Diagnostic Medical Device	20 l	415636	361
Formaldehyde 4% w/v buffered at pH 6.9	60 ml jars filled at 30 ml. Box of 500	30 ml	508861	361
Formaldehyde 4% w/v buffered at pH 6.9	500 ml jars filled at 300 ml. Box of 32	300 ml	508863	361
Formaldehyde 4% w/v buffered at pH 6.9		500 ml	524920	361
Formaldehyde 4% w/v buffered at pH 6.9	1 l jar filled at 800 ml	800 ml	526937	361
Formaldehyde 4% w/v buffered at pH 6.9		1 l	415694	361
Formaldehyde 4% w/v buffered at pH 6.9	5 l bucket filled at 2.5 l	2.5 l	526931	361
Formaldehyde 4% w/v buffered at pH 6.9		5 l	415691	361
Formaldehyde 4% w/v buffered at pH 6.9		5 l	415695	361
Formaldehyde 4% w/v buffered at pH 6.9		5 l	526936	361
Formaldehyde 4% w/v buffered at pH 6.9		10 l	415693	361
Formaldehyde 4% w/v buffered at pH 6.9		10 l	526933	361
Formaldehyde 4% w/v buffered at pH 6.9		20 l	415696	361
Formaldehyde 4% w/v buffered at pH 6.9		30 kg	415692	361
Formaldehyde 4% w/v with sodium chloride		1 l	526934	361
Formaldehyde acetic	60 ml jars filled at 30 ml. Box of 500	480 x 30 ml	508871	362

Formaldehyde acetic	1 l	526231	362
Formaldehyde acetic	5 l	526273	362
Paraformaldehyde	1 kg	387507	556

## Solvents for dehydration, de-waxing and diaphanization

Dehydration is obtained by bathing the tissue in an alcoholic series of increasing concentration.

Other solvents can be used instead of alcohols, as long as they mix with water, xylene and paraffins.

Solvent Plus, a mixture of Isoparaffins is widely and efficiently used for diaphanization and deparaffinization as a substitute of xylene.

Histolemon is a natural, non-toxic solvent for histology.

It is used as both a diaphanizing agent and a deparaffinizing agent, and it can replace xylene, toluene and all other solvents used for the same purposes. It is a product of natural origin, citrus-fruit scented, with the following characteristics: totally non-toxic, scarcely volatile, mixable with alcohols, compatible with all kinds of paraffins. It completely solves the problem of toxicity in the workplace.

Description	Notes	Size	Code	Page
Ethanol absolute anhydrous	Only for Italian market	1 l	414601	332
Ethanol absolute anhydrous	Only for Italian market	1 l	414607	332
Ethanol absolute anhydrous		1 l	4146012	332
Ethanol absolute anhydrous		1 l	4146072	332
Ethanol absolute anhydrous	Only for Italian market	2.5 l	414605	332
Ethanol absolute anhydrous	Only for Italian market	2.5 l	414608	332
Ethanol absolute anhydrous		2.5 l	4146052	332
Ethanol absolute anhydrous		2.5 l	4146082	332
Ethanol absolute anhydrous		5 l	414603	332
Ethanol absolute anhydrous		5 l	414606	332
Ethanol absolute anhydrous	Untaxed, for Italian license holders only	5 l	4146032	332
Ethanol absolute anhydrous	Untaxed, for Italian license holders only	5 l	4146062	332
Ethanol absolute anhydrous		10 l	414604	332
Ethanol 96°	Only for Italian market	1 l	414634	335
Ethanol 96°	Only for Italian market	1 l	414637	335
Ethanol 96°		1 l	4146342	335
Ethanol 96°		1 l	4146372	335
Ethanol 96°	Only for Italian market	2.5 l	414631	335
Ethanol 96°	Only for Italian market	2.5 l	414632	335
Ethanol 96°		2.5 l	4146312	335
Ethanol 96°		2.5 l	4146322	335
Ethanol 96°		5 l	414635	335
Ethanol 96°	Untaxed, for Italian license holders only	5 l	4146352	335
Ethanol 96°		10 l	414638	335
Ethanol 70% v/v		2.5 l	308771	337
Ethanol 70% v/v	Untaxed, for Italian license holders only	25 l	3087752	337
Ethanol absolute denaturated		1 l	528761	338
Ethanol absolute denaturated		2.5 l	528765	338
Ethanol absolute denaturated		5 l	528763	338
Ethanol absolute denaturated		5 l	528764	338
Ethanol absolute denaturated		10 l	528766	338
Ethanol absolute denaturated		25 l	528762	338
Ethanol 95° denaturated		1 l	528771	338
Ethanol 95° denaturated		5 l	528775	338
Ethanol 95° denaturated		10 l	528772	338
Ethanol 95° denaturated		25 l	528773	338
Ethanol 95° denaturated		200 l	528774	338
Histolemon		1 l	454911	390

Histolemon		2.5 l	454912	390
Histolemon		5 l	454915	390
Methanol		1 l	414814	491
Methanol		1 l	414819	491
Methanol		2.5 l	414815	491
Methanol		2.5 l	414816	491
Methanol		5 l	524102	491
Methanol		5 l	524103	491
Methanol		10 l	414818	491
Mixture Ethanol 95° / Isopropanol	In Vitro Diagnostic Medical Device	5 l	414551	508
Mixture Ethanol 99° / Isopropanol	In Vitro Diagnostic Medical Device	5 l	414511	508
Propan-1-ol		1 l	415104	622
Propan-1-ol		2.5 l	415102	622
Propan-1-ol		10 l	415108	622
Propan-2-ol		1 l	415154	625
Propan-2-ol		2.5 l	415156	625
Propan-2-ol		2.5 l	415158	625
Propan-2-ol		5 l	415173	625
Propan-2-ol		5 l	529174	625
Propan-2-ol		10 l	415153	625
Solvent Plus		2.5 l	446187	714
Solvent Plus		5 l	446181	714
Tetrahydrofuran		1 l	487308	752
Tetrahydrofuran		2.5 l	487303	752
Tetrahydrofuran		5 l	487305	752
Tetrahydrofuran		5 l	487307	752
Toluene		1 l	488551	767
Toluene		2.5 l	488555	767
Toluene		5 l	488552	767
Water		1 l	307592	788
Water		2.5 l	307593	788
Water		5 l	307582	788
Water		10 l	307586	788
Xylene, mix of isomers		1 l	492301	791
Xylene, mix of isomers		2.5 l	492306	791
Xylene, mix of isomers		5 l	492305	791

## Embedding media

CARLO ERBA Reagents paraffins, in addition to possessing the typical properties required of an inclusion medium, offer the advantages of being highly purified and filtered, with a melting point between 56 and 58°C.

In order to optimize the infiltration times and guarantee better preparation of the sample, paraffin is available without DMSO additive.

Description	Notes	Size	Code	Page
Paraffin 56-58°C - Erbaplast (without DMSO)	In Vitro Diagnostic Medical Device	4 x 2 kg	467958	555

## Reagents and staining solutions

Ready-to-use staining solutions produce bright and well-contrasted colors.

Ideal for easy microscope readings, they allow valid results to be obtained with shorter staining times and greater certainty.

Solutions for Papanicolaou staining are especially suited for laboratory use in cytological diagnostics, thanks to their quality and reproducibility characteristics: bright and contrasted colors, high staining capacity, short staining time, long solution life, reproducibility of the colors, and perfect long-term preservation of the stained sections.

Panoptic staining achieved with Giemsa and May Grünwald reagents provides a greater body of information with a single staining. Indeed, blood smear staining allows the diagnosis of all pathologies related to malformations of red and white blood cells as well as distribution



imbalances of the different kinds of white blood cells.

Description	Notes	Size	Code	Page
Alcian Blue 8GS 1%		250 ml	428551	148
Amman's lactophenol solution		100 ml	457531	160
Benedict's reagent		1 l	E425742	197
Carbolated Methylene Blue hydroalcoholic solution		100 ml	428991	248
Carbolated Toluidine Blue hydroalcoholic solution		100 ml	429291	248
Crystal violet oxalate for Gram-Hucker Kit	In Vitro Diagnostic Medical Device	250 ml	491561	284
Decalcifying agent	In Vitro Diagnostic Medical Device	1 l	441221	290
Differentiator for kit Gram-Hucker	In Vitro Diagnostic Medical Device	250 ml	444131	311
Ehrlich's reagent		500 ml	E446302	327
Eosin Y 1% solution aqueous	In Vitro Diagnostic Medical Device	1 l	446644	328
Eosin Y 0.5% solution alcoholic	In Vitro Diagnostic Medical Device	1 l	446664	329
Esbach's reagent		1 l	446981	330
Gentian violet carbolated solution	Dye for microscopy (bacteriology) according to GRAM	250 ml	E491651	368
Gentian violet carbolated solution	Dye for microscopy (bacteriology) according to NICOLLE	250 ml	E491661	368
Giemsa's reagent	In Vitro Diagnostic Medical Device	100 ml	453614	369
Giemsa's reagent	In Vitro Diagnostic Medical Device	6 x 100 ml	E453612	369
Giemsa's reagent	In Vitro Diagnostic Medical Device	500 ml	453616	369
Giemsa's reagent	In Vitro Diagnostic Medical Device	6 x 500 ml	E453613	369
Giemsa's reagent	In Vitro Diagnostic Medical Device	2.5 l	453611	369
Giemsa's reagent	In Vitro Diagnostic Medical Device	4 x 2.5 l	E453615	369
Gram - Hucker Kit	In Vitro Diagnostic Medical Device	4 x 250 ml	454441	376
Haemalum solution according to Carazzi	In Vitro Diagnostic Medical Device	250 ml	434351	378
Haemalum solution according to Mayer	In Vitro Diagnostic Medical Device	1 l	446372	378
Haemalum solution according to Mayer	In Vitro Diagnostic Medical Device	1 l	446377	378
Hematoxylin solution according to Mayer	In Vitro Diagnostic Medical Device	100 ml	460511	379
Hematoxylin solution according to Mayer	In Vitro Diagnostic Medical Device	6 x 100 ml	460512	379
Hematoxylin solution according to Mayer	In Vitro Diagnostic Medical Device	1 l	460513	379
Hematoxylin solution according to Mayer	In Vitro Diagnostic Medical Device	6 x 1 l	460515	379
Lactophenol blue solution	In Vitro Diagnostic Medical Device	100 ml	428901	452
Lugol concentrated solution		1 l	458741	466
Lugol solution for Gram-Hucker kit	In Vitro Diagnostic Medical Device	250 ml	458751	466
Lugol's Reagent Iodine-Iodide Solution	Medical Device	250 ml	458762	466
Lugol's Reagent Iodine-Iodide Solution	Medical Device	6 x 250 ml	E458761	466
Lugol's Reagent Iodine-Iodide Solution	Medical Device	1 l	458763	466
May Grünwald reagent	In Vitro Diagnostic Medical Device	100 ml	460584	482
May Grünwald reagent	In Vitro Diagnostic Medical Device	6 x 100 ml	E460582	482
May Grünwald reagent	In Vitro Diagnostic Medical Device	500 ml	460586	482
May Grünwald reagent	In Vitro Diagnostic Medical Device	6 x 500 ml	E460583	482
May Grünwald reagent	In Vitro Diagnostic Medical Device	2.5 l	460581	482
May Grünwald reagent	In Vitro Diagnostic Medical Device	4 x 2.5 l	E460585	482
Mayer's reagent		500 ml	460502	482
Methylene blue saturated solution		250 ml	E429031	498
Papanicolaou Haematoxylin solution according to Harris	In Vitro Diagnostic Medical Device	500 ml	446462	554
Papanicolaou Haematoxylin solution according to Harris	In Vitro Diagnostic Medical Device	6 x 500 ml	446464	554

Papanicolaou Haematoxylin solution according to Harris	In Vitro Diagnostic Medical Device	1 l	446461	554
Papanicolaou Haematoxylin solution according to Harris	In Vitro Diagnostic Medical Device	6 x 1 l	446465	554
Papanicolaou Haematoxylin solution according to Harris	In Vitro Diagnostic Medical Device	2.5 l	446463	554
Papanicolaou Haematoxylin solution according to Harris	In Vitro Diagnostic Medical Device	4 x 2.5 l	446466	554
Papanicolaou solution EA 50	In Vitro Diagnostic Medical Device	500 ml	467782	554
Papanicolaou solution EA 50	In Vitro Diagnostic Medical Device	6 x 500 ml	E467784	554
Papanicolaou solution EA 50	In Vitro Diagnostic Medical Device	1 l	467781	554
Papanicolaou solution EA 50	In Vitro Diagnostic Medical Device	6 x 1 l	E467785	554
Papanicolaou solution EA 50	In Vitro Diagnostic Medical Device	2.5 l	467783	554
Papanicolaou solution EA 50	In Vitro Diagnostic Medical Device	4 x 2.5 l	E467786	554
Papanicolaou solution OG 6	In Vitro Diagnostic Medical Device	500 ml	467792	555
Papanicolaou solution OG 6	In Vitro Diagnostic Medical Device	6 x 500 ml	E467794	555
Papanicolaou solution OG 6	In Vitro Diagnostic Medical Device	1 l	467791	555
Papanicolaou solution OG 6	In Vitro Diagnostic Medical Device	6 x 1 l	E467795	555
Papanicolaou solution OG 6	In Vitro Diagnostic Medical Device	2.5 l	467793	555
Papanicolaou solution OG 6	In Vitro Diagnostic Medical Device	4 x 2.5 l	E467796	555
Safranin T hydroalcoholic solution for Gram-Hucker Kit	In Vitro Diagnostic Medical Device	250 ml	477241	642
Schiff's reagent for PAS coloration	In Vitro Diagnostic Medical Device	500 ml	477591	646
Schiff's reagent for PAS coloration	In Vitro Diagnostic Medical Device	6 x 500 ml	477592	646
Tauber reagent		500 ml	490422	746
Turk's reagent	In Vitro Diagnostic Medical Device	500 ml	E490451	780
Wright's stain solution in methanol	In Vitro Diagnostic Medical Device	100 ml	492011	790
Ziehl-Neelsen's reagent	In Vitro Diagnostic Medical Device	250 ml	493101	796
Ziehl-Neelsen's reagent	In Vitro Diagnostic Medical Device	1 l	493102	796

## Dyes

To aid identification of the finest details of cellular structures, very pure products must be used. For this purpose the CARLO ERBA Reagents dyes in powder, in addition to possessing such characteristics, are also classified and certified through the combined use of TLC and UV-Visible spectrophotometry.

Description	Notes	Size	Code	Page
Alcian blue 8GX		25 g	428561	149
Alkali blue 6B		25 g	428532	150
Aniline blue soluble in water		25 g	428582	180
Azure II		5 g	424721	189
Azure II eosin		5 g	424731	190
Bismarck brown R		25 g	431252	201
Biuret 97%		25 g	428432	205
Brillant cresyl blue		10 g	428811	208
Brillant cresyl blue		25 g	428812	208
Brilliant green		25 g	491152	209
Chrysoidine Y		25 g	440572	268
Congo red		25 g	476762	273
Congo red		100 g	476764	273
Coomassie brilliant blue R 250		25 g	428642	274
Eosin B		25 g	446602	328
Eosin Y		25 g	446632	328
Eosin Y		100 g	446634	328

Erythrosin extra B	25 g	446972	330
Erythrosin extra B	100 g	446971	330
Fast green FCF	25 g	491391	353
Fuchsin acid	25 g	452812	364
Fuchsin acid	100 g	452814	364
Fuchsin basic	25 g	452842	365
Fuchsin basic	100 g	452844	365
Gentian violet	25 g	388703	368
Gentian violet	50 g	388701	368
Gold(III) chloride trihydrate	1 g	467007	375
Hematoxylin	25 g	446472	379
Hematoxylin	100 g	446473	379
Hematoxylin	1 kg	446475	379
Light green	10 g	491371	461
Light green	25 g	491372	461
Malachite green	25 g	491303	476
Malachite green	100 g	491304	476
Methyl blue	25 g	428932	497
Methyl green	10 g	491351	499
Methyl green	25 g	491352	499
Naphthol yellow S	25 g	453562	518
Neutral red	10 g	476951	521
Nigrosine	25 g	464852	525
Nigrosine	50 g	464853	525
Nuclear fast red	10 g	477011	536
Nuclear fast red	25 g	477012	536
Orange G	25 g	423432	539
Orange II	10 g	423341	539
Orcein	5 g	466858	540
Orcein	25 g	466859	540
Phloxin B	10 g	452051	574
Phloxin B	25 g	452052	574
Ponceau red BS	10 g	476941	581
Ponceau red S	5 g	476981	581
Ponceau red S	25 g	476982	581
Rosolic acid	25 g	409702	640
Safranin T	25 g	477232	642
Sudan black B	25 g	464241	726
Sudan III	25 g	485902	726
Sudan yellow	10 g	453581	727
Tartrazine	50 g	486903	746
Toluidine blue	25 g	429282	769
Victoria blue	10 g	429381	785
Victoria blue	25 g	429382	785

## Mounting media

Mounting media of natural or synthetic origin in various solvents, depending on the specific needs of the users, with all the typical characteristics required of common mounting media.

Description	Notes	Size	Code	Page
Canada balsam		100 g	321553	247
Canada balsam		250 g	321554	247
Eukitt		100 ml	554194	351
Eukitt		250 ml	554193	351
Eukitt		500 ml	554192	351
Oil of cedar wood		100 ml	466753	538
Oil of cedar wood		1 l	466757	538

## Immersion media

An especially useful range of products for optical microscopy.

Description	Notes	Size	Code	Page
Immersion oil		100 ml	466782	420
Immersion oil		1 l	466783	420



## Anhydrous solvents

In analytical and synthetic chemistry many operations must take place in an anhydrous environment in order to prevent alterations, the occurrence of side reactions and a reduced yield. For this purpose, high-quality solvents with minimum water content must be used. CARLO ERBA Reagents anhydrous solvents eliminate the time-consuming need for anhydrication of the solvents while ensuring results that are certain and reliable over time. These solvents are the result of specific production processes, optimized and controlled to obtain the highest degree of purity and minimum water content. The packaging materials used are ideal for preserving product quality, and the products are available in various sizes, in septum bottles or glass bottles.

Description	Notes	Size	Code	Page
Acetone		200 ml	P0051010	139
Acetone		1 l	P0051016	139
Acetonitrile		200 ml	P0061010	144
Acetonitrile	Water content < 50 ppm	200 ml	P00610S10	144
Acetonitrile		1 l	P0061016	144
Acetonitrile	Water content < 50 ppm	1 l	P00610S16	144
Acetonitrile		2.5 l	P0061021	144
Acetonitrile	Water content < 50 ppm	2.5 l	P00610S21	144
Butanol-1		200 ml	P0171010	226
Butanol-1		1 l	P0171016	226
tert-Butanol		1 l	P0191016	227
n-Butyl acetate		1 l	P0011016	228
n-Butyl acetate		2.5 l	P0011021	228
tert-Butylmethylether		1 l	P0921016	231
Chloroform		200 ml	P02410A10	261
Chloroform		1 l	P02410A16	261
Chloroform		2.5 l	P02410A21	261
Chloroform		200 ml	P02410E10	261
Chloroform		2.5 l	P02410E21	261
Cyclohexane		200 ml	P0251010	286
Cyclohexane		1 l	P0251016	286
1,2-Dichloroethane		200 ml	P0281010	299
1,2-Dichloroethane		1 l	P0281016	299
1,2-Dichloroethane		2.5 l	P0281021	299
Dichloromethane, stab. with Amylene		200 ml	P02910A10	302
Dichloromethane, stab. with Amylene		1 l	P02910A16	302
Dichloromethane, stab. with Amylene		2.5 l	P02910A21	302
Dichloromethane, stab. with Ethanol		200 ml	P02910E10	302
Dichloromethane, stab. with Ethanol		1 l	P02910E16	302
Dichloromethane, stab. with Ethanol		2.5 l	P02910E21	302
Diethyl ether		200 ml	P0441010	309
Diethyl ether		1 l	P0441008	309
Diethyl ether		1 l	P0441016	309
Diethyl ether		2.5 l	P0441021	309
Diisopropylether		1 l	P0431016	312
N,N-Dimethylformamide		200 ml	P0341010	315
N,N-Dimethylformamide		1 l	P0341016	315
N,N-Dimethylformamide		2.5 l	P0341021	315
1,4-Dioxane		200 ml	P0361010	321
1,4-Dioxane		1 l	P0361016	321



1,4-Dioxane	2.5 l	P0361021	321
Ethanol absolute anhydrous	200 ml	P013A1010	331
Ethanol absolute anhydrous	1 l	P013A1016	331
Ethanol absolute anhydrous	2.5 l	P013A1021	331
Ethyl acetate	200 ml	P0021010	341
Ethyl acetate	1 l	P0021016	341
Ethyl acetate	2.5 l	P0021021	341
Ethyl methyl ketone	1 l	P0201016	350
Formamide	200 ml	P6151010	362
n-Heptane 99%	1 l	P0501016	381
n-Heptane 99%	2.5 l	P0501021	381
n-Hexane	1 l	P0521016	387
Isobutanol	1 l	P0531016	437
Isopentane	1 l	P0651016	441
Methanol	200 ml	P0931010	490
Methanol	1 l	P0931016	490
Methanol	2.5 l	P0931021	490
Methylcyclohexane	1 l	P0581016	497
Methyl isobutyl ketone	1 l	P0601016	500
N-Methyl-2-pyrrolidone	200 ml	P0871010	502
n-Pentane	1 l	P0641016	559
Propan-1-ol	1 l	P0941016	622
Propan-1-ol	2.5 l	P0941021	622
Propan-2-ol	200 ml	P0951010	624
Propan-2-ol	1 l	P0951016	624
Pyridine	200 ml	P0671010	630
Pyridine	1 l	P0671016	630
Pyridine	2.5 l	P0671021	630
Sulfolane	1 l	P932SP16	729
Tetrahydrofuran	200 ml	P0701010	752
Tetrahydrofuran	1 l	P0701016	752
Tetrahydrofuran	2.5 l	P0701021	752
Toluene	200 ml	P0711010	766
Toluene	1 l	P0711016	766
Toluene	2.5 l	P0711021	766

## Anhydrous solvents, with molecular sieves

To improve prevention of contamination from external humidity, these solvents are supplied with molecular sieves.

Description	Notes	Size	Code	Page
Acetonitrile	On molecular sieves 3A	200 ml	P00610T10	144
Chloroform	On molecular sieves 4A	2.5 l	P02410AT21	261
Dichloromethane	On molecular sieves 4A	200 ml	P02910AT10	302
Dichloromethane	On molecular sieves 4A	1 l	P02910AT16	302
Diethyl ether	On molecular sieves 4A, Water content < 20ppm	200 ml	P04410T10	309
Diethyl ether	On molecular sieves 4A, Water content < 20ppm	1 l	P04410T16	309
N,N-Dimethylformamide	On molecular sieves 4A	200 ml	P03410T10	315
N,N-Dimethylformamide	On molecular sieves 4A	1 l	P03410T16	315

Ethyl acetate	On molecular sieves 4A, Water content < 20ppm	2.5 l	P00210T21	341
Tetrahydrofuran	On molecular sieves 4A	200 ml	P07010T10	752
Tetrahydrofuran	On molecular sieves 4A	1 l	P07010T16	752
Toluene	On molecular sieves 4A	200 ml	P07110T10	766

**NMR SPECTROSCOPY**

To meet the various needs of NMR spectroscopy, CARLO ERBA Reagents offers a wide range of deuterated solvents, characterized by high production standards resulting from the use of spectroscopically pure raw materials and accurate analyses and controls in line with our long tradition of quality.

Our solvents are available with various degrees of isotopic purity and a vast assortment of packages, with an attention to detail that complements the overall reliability and safety guaranteed by our products.

**NMR solvents**

The choice of deuterated solvents is very important in NMR spectroscopy.

These solvents contribute to shielding the substance they dissolve, as well as making a significant contribution to expanding the electric reaction field generated by the solvent as a result of the polarization produced by the molecules in the solute.

To meet the varied needs of this sophisticated analytical technique, CARLO ERBA Reagents offers a wide range of deuterated solvents, characterized by high production standards resulting from the use of spectroscopically pure raw materials and accurate analyses and controls in line with our long tradition of quality.

Our solvents are available in various degrees of isotopic purity and a vast assortment of packages, with an attention to detail that complements the overall reliability and safety guaranteed by the products.

Description	Notes	Size	Code	Page
Acetic acid-d4		10 x 0.75 ml	P5039	137
Acetone-d6		10 x 0.6 ml	P5060	141
Acetone-d6		10 x 0.75 ml	P5049	141
Acetone-d6		10 ml	P5044A	141
Acetone-d6		25 ml	P5045	141
Acetone-d6		100 ml	P5046	141
Acetonitrile-d3		2 x 0.6 ml	P5070	145
Acetonitrile-d3		10 x 0.75 ml	P5079	145
Acetonitrile-d3		5 ml	P5073A	145
Benzene-d6		10 x 0.75 ml	P5089	198
Benzene-d6		25 ml	P5085	198
Benzene-d6		100 ml	P5086	198
Chloroform-d		10 x 0.6 ml	P5130	263
Chloroform-d		100 ml	P5505	263
Chloroform-d		10 x 0.75 ml	P5119	263
Chloroform-d		25 ml	P5115	263
Chloroform-d		100 ml	P5116	263
Chloroform-d		500 ml	P5117	263
Chloroform-d		1 l	P5118	263
Chloroform-d		100 ml	P5325	263
Chloroform-d + 0.03% TMS		100 ml	P5006	263
Cyclohexane-d12		2 x 0.5 ml	P5151A	287
Deuterium oxide-d2		10 x 0.75 ml	P5179	293
Deuterium oxide-d2		25 ml	P5175	293
Deuterium oxide-d2		10 x 0.75 ml	P5169	293
Deuterium oxide-d2		5 x 10 ml	P5164	293
Deuterium oxide-d2		25 ml	P5165	293
Deuterium oxide-d2		25 ml	P5165S	293
Deuterium oxide-d2		100 ml	P5166	293
Deuterium oxide-d2		1 l	P5168	293
Deuterium oxide-d2 + 0.01% DMSO		10 x 0.6 ml	P5170D	294
Deuterium oxide-d2 + 0.5% TSP d4		10 x 0.6 ml	P5161T	294
Deuterium oxide-d2 + 0.03% TSP d4		10 x 0.6 ml	P5160T	294
1,2-Dichlorobenzene-d4		5 ml	P5533A	299
Dichloromethane-d2		10 x 0.6 ml	P5330	305

Dichloromethane-d2	10 x 0.75 ml	P5339	305
Dichloromethane-d2	25 ml	P5335	305
N,N-Dimethylformamide-d7	2 x 0.75 ml	P5189A	316
Dimethylsulphoxide-d6	10 x 0.6 ml	P5220	319
Dimethylsulphoxide-d6	10 x 0.75 ml	P5229	319
Dimethylsulphoxide-d6	10 x 0.6 ml	P5200	319
Dimethylsulphoxide-d6	10 x 0.75 ml	P5209	319
Dimethylsulphoxide-d6	10 ml	P5204A	319
Dimethylsulphoxide-d6	5 x 10 ml	P5204S	319
Dimethylsulphoxide-d6	25 ml	P5205	319
Dimethylsulphoxide-d6	100 ml	P5206	319
Dimethylsulphoxide-d6 + 0.03% TMS	10 x 0.75 ml	P5541	319
Dimethylsulphoxide-d6 + 0.03% TMS	25 ml	P5545	319
Dimethylsulphoxide-d6 + 0.03% TMS	10 x 0.6 ml	P5602	320
Dimethylsulphoxide-d6 + 0.03% TMS	25 ml	P5605	320
Ethanol-d6 anhydrous	2 x 1 ml	P5262A	340
Formic acid-d	5 ml	P5733	364
Hydrochloric acid-d 20%	25 ml	P5685	409
Hydrochloric acid-d 1 mol/l	25 ml	P5695	409
Methanol-d4	10 x 0.6 ml	P5310	493
Methanol-d4	10 x 0.75 ml	P5319	493
Methanol-d4	10 x 0.6 ml	P5280	493
Methanol-d4	10 x 0.75 ml	P5289	493
Methanol-d4	5 ml	P5283A	493
Methanol-d4	5 x 10 ml	P5284	493
Methanol-d4	5 x 10 ml	P5284S	493
Methanol-d4	25 ml	P5285	493
Methanol-d4 + 0.03% TMS	10 x 0.6 ml	P5140	494
Methanol-d3	10 x 0.75 ml	P5309	494
Methanol-d1	25 ml	P5275	494
Orthophosphoric acid-d3 85% in D2O	25 ml	P5055	549
Pyridine-d5	2 x 0.6 ml	P5370	631
Pyridine-d5	2 x 0.75 ml	P5369A	631
Pyridine-d5	10 ml	P5364A	631
Sodium hydroxide-d 1 30%	25 ml	P5675	691
Sodium hydroxide-d 1 mol/l	25 ml	P5665	691
Tetrachloroethane-d2	25 ml	P5435	751
Tetrahydrofuran-d8	2 x 0.6 ml	P5380	753
Tetrahydrofuran-d8	25 ml	P5385	753
Toluene-d8	2 x 0.75 ml	P5399A	768
Toluene-d8	5 ml	P5393A	768
Toluene-d8	25 ml	P5395	768
Trifluoroacetic acid-d	2 x 0.75 ml	P5419A	774
Trifluoroacetic acid-d	5 ml	P5413A	774



## UV SPECTROSCOPY

In molecular structure research and equilibrium studies, as well as studies on kinetics and steric effects, it is important to use solvents with high UV transmittance which contain no interfering substances absorbent in the IR spectral band and are suited for fluorescence analysis.

## SPECTROSOL® Solvents for optical spectroscopy

CARLO ERBA Reagents offers a line of special solvents for spectroscopy. These are high-purity products obtained through specific production processes, controlled and packaged in order to adequately meet the needs of modern ultraviolet, infrared and fluorescence analytical techniques.

Description	Notes	Size	Code	Page
Acetone		1 l	401034	139
Acetone		2.5 l	401032	139
Acetonitrile		1 l	401216	143
Acetonitrile		2.5 l	401212	143
tert-Butylmethylether		1 l	432001	230
tert-Butylmethylether		2.5 l	432002	230
Chloroform, stab. with Amylene		1 l	438591	260
Chloroform, stab. with Amylene		2.5 l	438592	260
Chloroform, stab. with Ethanol		1 l	438664	261
Chloroform, stab. with Ethanol		2.5 l	438662	261
Cyclohexane		1 l	436967	286
Cyclohexane		2.5 l	436963	286
1,2-Dichloroethane		1 l	P0282716	299
Dichloromethane, stab. with Amylene		1 l	442371	302
Dichloromethane, stab. with Amylene		2.5 l	P02927A21	302
Dichloromethane, stab. with Ethanol		1 l	463025	302
Diethyl ether		1 l	447593	308
N,N-Dimethylformamide		1 l	444957	315
N,N-Dimethylformamide		2.5 l	444956	315
Dimethylsulphoxide		1 l	445112	318
Dimethylsulphoxide		2.5 l	445111	318
Ethanol absolute anhydrous	Only for Italian market	1 l	414677	331
Ethanol absolute anhydrous		1 l	4146772	331
Ethanol 96°	Only for Italian market	1 l	414667	334
Ethanol 96°		1 l	4146672	334
Ethyl acetate		1 l	448271	341
Ethyl acetate		2.5 l	448272	341
n-Heptane 99%		1 l	446824	380
n-Heptane 99%		2.5 l	P0502721	380
n-Hexane 99%		1 l	447051	385
n-Hexane 99%		2.5 l	447052	385
n-Hexane		1 l	446934	387
n-Hexane		2.5 l	446932	387
Isooctane		1 l	456754	439
Isooctane		2.5 l	456753	439
Methanol		1 l	414902	490
Methanol		2.5 l	414903	490
Methylcyclohexane		1 l	P0582716	497
Paraffin oil		100 ml	466792	555
n-Pentane 99%		1 l	468142	557
n-Pentane 99%		2.5 l	468141	557



Potassium bromide	100 g	470701	585
Propan-2-ol	1 l	415213	624
Propan-2-ol	2.5 l	P0952721	624
Tetrachloroethylene	1 l	P0682716	750
Tetrachloroethylene	2.5 l	P0682721	750
Tetrahydrofuran	1 l	487345	752
Tetrahydrofuran	2.5 l	487346	752
Toluene	1 l	488601	766
Toluene	2.5 l	488602	766
1,2,4-Trichlorobenzene	2.5 l	P0722721	771
Trifluoroacetic acid	1 l	P0082746	773
Trifluoroacetic acid	2.5 l	P0082747	773

**PEPTIDE SYNTHESIS**

CARLO ERBA Reagents propose a specific range of the most commonly used solvents for peptide and/or DNA synthesis. These solvents are tested specifically to guarantee the absence of amines.

**Solvents for Peptides Synthesis**

Description	Notes	Size	Code	Page
Acetonitrile		200 ml	P0063510	144
Acetonitrile		1 l	P0063516	144
Acetonitrile		2.5 l	P0063521	144
N,N-Dimethylformamide		1 l	P0343516	316
N,N-Dimethylformamide		2.5 l	P0343521	316
N,N-Dimethylformamide		5 l	P0343522	316
N,N-Dimethylformamide		10 l	P0343541	316
N,N-Dimethylformamide		25 l	P0343549	316
N,N-Dimethylformamide		25 l	P0343550	316
N,N-Dimethylformamide		200 l	P0343567	316
N-Methyl-2-pyrrolidone		1 l	P0873516	502
N-Methyl-2-pyrrolidone		2.5 l	P0873521	502
N-Methyl-2-pyrrolidone		10 l	P0873541	502
N-Methyl-2-pyrrolidone		25 l	P0873549	502
N-Methyl-2-pyrrolidone		200 l	P0873566	502
Piperidine		500 ml	P0663518	580
Piperidine		1 l	P0663516	580
Piperidine		2.5 l	P0663521	580
Pyridine		1 l	P0673516	630
Pyridine		2.5 l	P0673521	630
Trifluoroacetic acid		100 ml	P0082103	773
Trifluoroacetic acid		2.5 l	P0082147	773

**GREEN CHEMISTRY**

Growing awareness of the environmental consequences of chemical products and the processes by which they are produced has led to the development of the concept of "Sustainable (Green) Chemistry" in the United States during the early nineties. The definition given by its founder, Paul T. Anastas, is the following:

"Green Chemistry is the utilization of a set of principles that reduces or eliminates the use and generation of hazardous substances in the design, manufacture and application of chemical products."

It is based on 12 principles, which take into consideration the environmental, economic and safety aspects of chemistry.

**Green solvents**

In the interest of Green Chemistry, CARLO ERBA Reagents offers the following Green Solvents.

Description	Notes	Size	Code	Page
Cyclopentyl methyl ether		1 l	P8010216	289
Cyclopentyl methyl ether		5 l	P8010229	289
N,N'-Dimethylpropylene uree		500 ml	P8020218	317
N,N'-Dimethylpropylene uree		1 l	P8020216	317
N,N'-Dimethylpropylene uree		5 l	P8020229	317
N,N'-Dimethylpropylene uree		25 l	P8020248	317
N,N'-Dimethylpropylene uree		200 l	P8020268	317
1,3-Dioxolane		1 l	P8030216	322
1,3-Dioxolane		5 l	P8030222	322
1,3-Dioxolane		25 l	P8030249	322
1,3-Dioxolane		200 l	P8030268	322
2-Methyltetrahydrofuran		1 l	P9960216	505
2-Methyltetrahydrofuran		2.5 l	P9960221	505
2-Methyltetrahydrofuran		5 l	P9960229	505
2-Methyltetrahydrofuran		25 l	P9960248	505
2-Methyltetrahydrofuran		200 l	P9960268	505
4-Methyltetrahydropyran		500 ml	P9990218	506
4-Methyltetrahydropyran		1 l	P9990216	506
4-Methyltetrahydropyran		2.5 l	P9990221	506
1,3-Propanediol		1 l	P8040216	627
1,3-Propanediol		5 l	P8040222	627
1,3-Propanediol		190 l	P8040268	627



**PETROCHEMICAL ANALYSIS**

CARLO ERBA Reagent offers a new range of ASTM solvents for testing engines. These solvents can be used in RON and MON methods (D2699 and D2700).

**Solvents for the Octane Number**

The determination of the octane number of a gasoline is a measure of its quality and performance as a fuel. CARLO ERBA Reagents offers solvents for the measure of the octane rate.

Description	Notes	Size	Code	Page
n-Heptane 99%		5 l	524263	381
n-Heptane 99%		25 l	524265	381
n-Heptane 99%		200 l	524267	381
Isooctane		5 l	528960	440
Isooctane		25 l	528961	440
Octane 80 blend		5 l	525992	537
Octane 80 blend		25 l	525993	537
Octane 80 blend		140 kg	525994	537
Toluene		5 l	386102	767
Toluene		25 l	386104	767
Toluene		180 kg	386106	767

**Reagents for TAN & TBN Analysis**

The determination of TAN, the measure of acid concentration and of TBN, the measure of alkaline concentration present in a lubricant are essential tests in industrial machinery and engine applications. CARLO ERBA Reagents offers reagents for TAN and TBN analysis.

Description	Notes	Size	Code	Page
Reagent TAN		2.5 l	PS0327/21	635
Reagent TAN		5 l	PS0327/29	635
Reagent TAN		10 l	PS0327/39	635
Reagent TBN ASTM D2896		2.5 l	PS0423/21	636
Reagent TBN ASTM D2896		5 l	PS0423/29	636
Reagent TBN ASTM D2896		10 l	PS0423/39	636
Reagent TBN ASTM D4739		5 l	526615	636

**KARL FISCHER TITRATION**

ERBAqua® is the CARLO ERBA Reagents brand, for its complete range of pyridine-free reagents for the volumetric and coulometric Karl Fischer determination of water.

The main features of this range are: more safety due to py-free and one component reagents non-hazardous, fast and stable endpoints and long term titre stability.

**ERBAqua® One component volumetric reagents**

In one-component volumetric Karl Fischer Titration, the titrant contains all the reagents required by the reaction: iodine, sulfur dioxide, base and an alcohol.

Available in two different titer strengths, 5 mg/ml and 2 mg/ml, they are suitable for routine analysis, and thanks to their methanol-free formulation, they can be used also if the sample contains aldehydes and ketones.

Description	Notes	Size	Code	Page
Karl Fischer reagent 1 component 2 mg H <sub>2</sub> O/ml		1 l	570021	443
Karl Fischer reagent 1 component 5 mg H <sub>2</sub> O/ml		1 l	570011	443
Karl Fischer titrant 1 component 5 mg H <sub>2</sub> O/ml for aldehydes and ketones		1 l	570081	443

**ERBAqua® Solvents for One component volumetric reagents**

Used to dissolve the sample, when a one component reagent is used for titration. In addition to methanol and anhydrous chloroform, other solvents are available:

- 570031, for sample containing oils and fats
- 570041, for sample containing aldehydes and ketones. It is especially suitable for high molecular weight products and non polar constituents mixture

Description	Notes	Size	Code	Page
Chloroform		1 l	P02410E16	261
Karl Fischer solvent for aldehydes and ketones one component		1 l	570041	444
Karl Fischer solvent for oils one component		1 l	570031	444
Methanol	Water content max 50 ppm	1 l	414981	490

**ERBAqua® Two components volumetric reagents**

For users who do frequent Karl Fischer analysis and need a higher degree of accuracy than one-component volumetric titration can provide, we recommend the two components range.

They give more accuracy in the results and longer shelf life because the reagents required by the Karl Fischer reaction are separated between the titrant (iodine) and the working medium (sulfur dioxide and base), but this implies that they must be coupled used.

Description	Notes	Size	Code	Page
Karl Fischer titrant 2 component 2 mg H <sub>2</sub> O/ml		1 l	570061	444
Karl Fischer titrant 2 component 5 mg H <sub>2</sub> O/ml		1 l	570051	444

**ERBAqua® Solvents for Two component volumetric reagents**

Together with the two-component titrants, there are different types of solvents.

For oils or other non-polar compounds, 570101 is the suitable working medium. In case of need for an extra buffering capacity of 5 mmole of acid/ml, 570111 is the suitable working medium.

Description	Notes	Size	Code	Page
Karl Fischer solvent 2 component		1 l	570071	445
Karl Fischer solvent 2 component for aldehydes and ketones - Methanol free		1 l	570091	445
Karl Fischer solvent for oils 2 component		1 l	570101	445
Karl Fischer 2 component buffered solvent		500 ml	570111	445



## ERBAqua® Coulometric reagents - Anolyte solutions for cells with diaphragm

Coulometric Karl Fischer method is highly effective and suitable when water content in the sample is less than 0.1% and high accuracy on the result is needed.

Designed for use with all titrators and titration cell types, a wide range is available in order to allow the necessary reagents both when a diaphragm or a diaphragmless cell is used.

For units with a diaphragm, two reagent solutions are required: an anolyte and a catholyte.

Description	Notes	Size	Code	Page
Karl Fischer anolyte solution		500 ml	570121	446
Karl Fischer anolyte solution for ketones and aldehydes - Methanol free		500 ml	570161	446
Karl Fischer anolyte solution - CFC free		500 ml	570141	446
Karl Fischer anolyte solution, oven		500 ml	570151	446
Karl Fischer anolyte solution for oils		500 ml	570171	447

## ERBAqua® Coulometric reagents - Catholyte solutions for cells with diaphragm

When coulometric titration is performed with a cell with a diaphragm there is a need for anolyte or catholyte solutions.

Description	Notes	Size	Code	Page
Karl Fischer catholyte solution		125 ml	570181	447
Karl Fischer catholyte solution for aldehydes and ketones		125 ml	570191	447

## ERBAqua® Coulometric reagents - Anolyte solutions for cells without diaphragm

When the coulometric titration is done with a cell without a diaphragm, an anolyte solution is sufficient.

Description	Notes	Size	Code	Page
Karl Fischer anolyte solution for cells with and without diaphragms		500 ml	570131	447

## ERBAqua® Water standards - Gravimetric

Standardization of a Karl Fischer reagent is necessary in order to determine its water equivalency.

Gravimetric standards with content in water in mg/g.

Description	Notes	Size	Code	Page
Karl Fischer water standard 10.0 mg/g		10 x 5 ml	570221	448
Karl Fischer water standard 1.0 mg/g		10 x 5 ml	570211	448
Karl Fischer water standard 0.10 mg/g		10 x 5 ml	570201	449
Sodium tartrate dihydrate		100 g	483561	709

## ERBAqua® Water standards - Volumetric

Volumetric standards with content in water in mg/ml.

Description	Notes	Size	Code	Page
Karl Fischer water standard 5.0 mg/ml		10 x 5 ml	570231	448



## INDICATORS

Indicators represent a practical and important tool for monitoring the progress of a reaction of an aqueous solution, operations which are often essential for obtaining correct analytical data.

## Indicators, for UV-fluorescence, Redox, Precipitation and Complexometry

- **UV Fluorescence indicators**  
The use of chromatic indicators may not be equally effective with turbid or colored solutions, or when the change in concentration is not fast enough. In these cases, instrumental methods or fluorescence indicators may be adopted to identify the end point.
- **Oxidation-reduction indicators**  
These indicators are substances that vary in color depending on whether they are in oxidized or reduced form. Their behavior is very similar to that of the indicators used in acid-base titration; however, while the latter are sensitive to changes in the solution's pH, oxidation-reduction indicators are sensitive to changes in the system's potential. The color changes are usually very clear and well-defined.
- **Precipitation indicators**  
Precipitation titration methods have very limited applications compared to other types of volumetric analysis, but the few that are still employed are very useful in practical terms.  
The titration process is based on the formation of an insoluble compound between the titrating agent and the substance being titrated, which gradually results from the reaction that occurs during titration.  
Precipitation indicators allow visual identification of the end point of titration thanks to a change in color, which corresponds to the variation of a key characteristic, such as a change in the precipitate's electric charge (isoelectric point).
- **Complexometry indicators**  
These are organic colorings, mainly of the azo group, which form stable complexes with metals and are characterized by different colors depending on whether they are in free form or complex form in the solution.

Description	Notes	Size	Code	Page
Acridine orange		25 g	423461	147
Alizarin		25 g	415892	149
Alizarin red		25 g	416002	149
Alizarin yellow R		10 g	453451	150
Anthrone		25 g	423282	182
Arsenazo III		1 g	424281	184
Arsenazo III		25 g	424282	184
Azomethine H		10 g	424691	189
Azomethine H		25 g	424692	189
Bromocresol green		1 g	491207	211
Bromocresol green		25 g	491208	211
Bromocresol purple		5 g	470038	212
Bromocresol purple		25 g	470039	212
Bromophenol blue		5 g	428658	213
Bromophenol blue		25 g	428659	213
Bromophenol blue		50 g	428653	213
Bromophenol blue		500 g	428655	213
Bromophenol blue indicator		1 l	PS0269/15	214
Bromophenol blue TAC indicator		1 l	PS0189/15	214
Bromophenol blue TAC indicator		1 l	PS0189/16	214
Bromothymol blue		5 g	428708	215
Bromothymol blue		25 g	428702	215
Bromothymol blue		50 g	428703	215
Calcon		25 g	434171	245
Calconcarbonic acid		5 g	403308	245
Calmagite		5 g	434181	246
Chloramine T sodium salt		25 g	437555	256
Chloranil		50 g	437601	256
Chromotropic acid disodium salt		25 g	404872	268
Clayton's yellow		5 g	453518	270

Clayton's yellow	25 g	453519	270
m-Cresol purple	1 g	470067	282
m-Cresol purple	25 g	470068	282
o-Cresol red	5 g	476778	283
Crystal violet	25 g	491502	284
Diacetyldioxime	50 g	441553	295
Diacetyldioxime sodium salt	50 g	441623	295
Diacetyldioxime sodium salt	250 g	441625	295
2,6-Dichlorophenolindophenol sodium salt	5 g	442508	305
2,6-Dichloroquinone-4-chlorimide	5 g	442458	305
Diethylenetriaminepentacetic acid	250 g	405192	308
Dimedone	25 g	444252	313
p-Dimethylaminobenzaldehyde	100 g	444604	314
p-Dimethylaminobenzaldehyde	250 g	444603	314
p-Dimethylaminobenzylidenerhodanine	5 g	444678	314
Dimidium bromide	1 g	445232	320
Dimidium bromide	5 g	445231	320
Dimidium bromide	25 g	445233	320
sym-Diphenylcarbazine	25 g	443752	323
sym-Diphenylcarbazine	100 g	443754	323
sym-Diphenylcarbazone	10 g	443801	323
Diphenylthiocarbazone	50 g	444053	323
Dodecylbenzenesulphonic acid sodium salt	10 g	405351	325
Dodecylbenzenesulphonic acid sodium salt	25 g	405352	325
Eriochrome black T	10 g	464221	330
Eriochrome black T	25 g	464222	330
Eriochromocyanine R	10 g	446811	330
Eriochromocyanine R	25 g	446812	330
Fluorescein	25 g	452086	357
Fluorescein	50 g	452083	357
Fluorescein	500 g	452087	357
Fluorescein sodium salt	25 g	452112	357
Fluorescein sodium salt	50 g	452113	357
Fluorescein sodium salt	1 kg	452117	357
Fluorescein sodium salt	25 g	345356	357
Fluorescein sodium salt	1 kg	345357	357
Glyoxal-bis-(2-hydroxyanil)	10 g	454131	374
Idrimer Erba Solution A	500 ml	E455256	419
Idrimer Erba Solution A	1 l	E455257	419
Idrimer Erba Solution B	500 ml	E455266	419
Idrimer Erba Solution B	1 l	E455267	419
Idrimer Erba Indicator C	10 g	E455271	419
Idrimer Erba Indicator C	100 g	E455274	419
Indicator for ammoniacal nitrogen solution	250 ml	E455651	420
Indicator for iodometry	25 g	455622	420
Indicator for iodometry	250 g	455621	420
Indigo carmine dried	25 g	434932	422
Inulin	10 g	455901	424
Inulin	25 g	455902	424
Inulin	100 g	455903	424

Litmus	100 g	489054	465
Luminol	25 g	458772	467
Metanil yellow	25 g	453542	487
3-Methyl-2-benzothiazolinone hydrazone hydrochloride	5 g	462238	497
Methylene blue	100 g	428984	498
Methylene blue	25 g	429982	498
Methylene blue	500 g	429981	498
Methyl orange	25 g	423504	501
Methyl orange	50 g	423503	501
Methyl orange	250 g	423505	501
Methyl orange	500 g	423501	501
Methyl red	25 g	476882	503
Methyl red	50 g	476883	503
Methyl red	250 g	476881	503
Methylthymol blue sodium salt	1 g	429021	506
Methylthymol blue sodium salt	25 g	429022	506
Methyl yellow	25 g	444552	506
Murexide	5 g	463608	516
Murexide	25 g	463609	516
Neocuproine hydrochloride	1 g	444731	519
Phenol red	5 g	476838	570
Phenol red	25 g	476839	570
Phenolphthalein	100 g	451154	571
Phenolphthalein	500 g	451156	571
Pyrocatechol violet	1 g	491871	632
Pyrocatechol violet	25 g	491872	632
Quinaldine red	25 g	476688	634
Red for oils O	25 g	476961	636
Starch paste solution 1%	250 ml	E477301	721
Starch paste solution 1%	1 l	E477302	721
Sudan III hydroalcoholic saturated solution	250 ml	E485952	727
Sudan yellow	25 g	453582	727
Thymol blue	5 g	429228	757
Thymol blue	25 g	429222	757
Thymol blue	50 g	429223	757
Thymolphthalein	5 g	487728	758
Thymolphthalein	25 g	487729	758
Tropaeolin O	10 g	490001	778
Tropaeolin O	25 g	490002	778
Xylenecyanol	1 g	492211	792
Xylenecyanol	25 g	492212	792
Xylenol orange	1 g	423597	793
Xylenol orange	5 g	423598	793
Xylenol orange	25 g	423599	793

**CONDUCTIMETRY**

The determination of the electrical conductivity or conductance is a key physical-chemical parameter for water analysis.

**Standard Solutions**

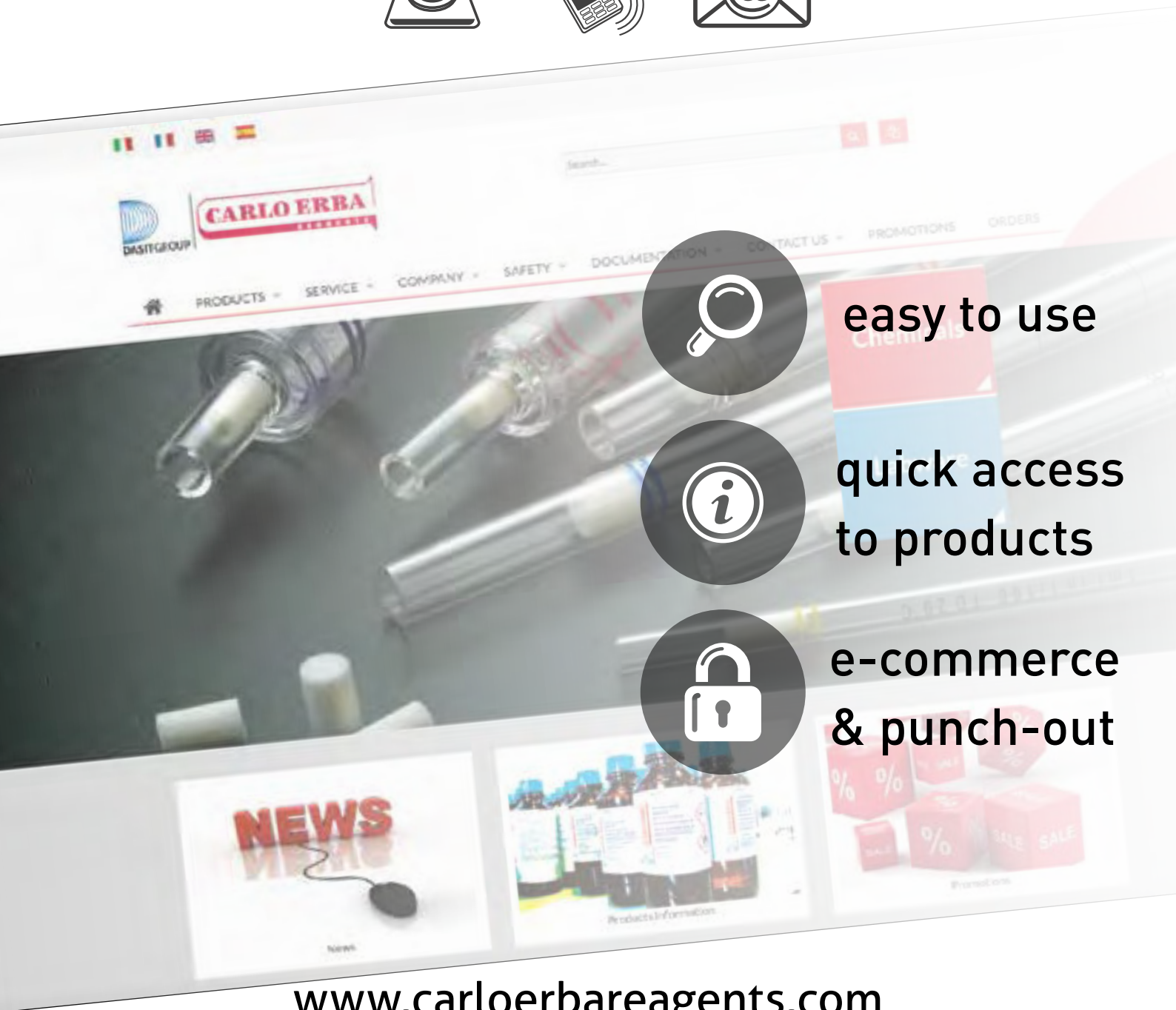
CARLO ERBA Reagents offers the following reference solutions, which are certified with NIST traceability.

Description	Notes	Size	Code	Page
Standard solution 1.30 $\mu\text{S}/\text{cm}$		250 ml	575231	715
Standard solution 5 $\mu\text{S}/\text{cm}$		250 ml	575001	716
Standard solution 10 $\mu\text{S}/\text{cm}$		250 ml	575011	716
Standard solution 20 $\mu\text{S}/\text{cm}$		500 ml	575021	716
Standard solution 50 $\mu\text{S}/\text{cm}$		500 ml	575031	716
Standard solution 84 $\mu\text{S}/\text{cm}$		500 ml	575041	717
Standard solution 100 $\mu\text{S}/\text{cm}$		500 ml	575051	717
Standard solution 147 $\mu\text{S}/\text{cm}$		500 ml	575061	717
Standard solution 200 $\mu\text{S}/\text{cm}$		500 ml	575071	717
Standard solution 500 $\mu\text{S}/\text{cm}$		500 ml	575081	717
Standard solution 1000 $\mu\text{S}/\text{cm}$		500 ml	575091	718
Standard solution 1413 $\mu\text{S}/\text{cm}$		500 ml	575101	718
Standard solution 5000 $\mu\text{S}/\text{cm}$		500 ml	575111	718
Standard solution 10000 $\mu\text{S}/\text{cm}$		500 ml	575121	718
Standard solution 12880 $\mu\text{S}/\text{cm}$		500 ml	575131	718
Standard solution 20000 $\mu\text{S}/\text{cm}$		500 ml	575141	719
Standard solution 50000 $\mu\text{S}/\text{cm}$		500 ml	575151	719
Standard solution 100000 $\mu\text{S}/\text{cm}$		500 ml	575161	719
Standard solution 150000 $\mu\text{S}/\text{cm}$		500 ml	575171	719
Standard solution 200000 $\mu\text{S}/\text{cm}$		500 ml	575181	720
Standard solution 300000 $\mu\text{S}/\text{cm}$		500 ml	575191	720
Standard solution 350000 $\mu\text{S}/\text{cm}$		500 ml	575201	720
Standard solution 450000 $\mu\text{S}/\text{cm}$		500 ml	575211	720
Standard solution 500000 $\mu\text{S}/\text{cm}$		500 ml	575221	721



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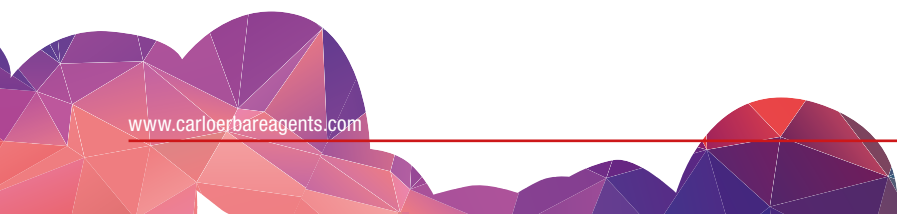
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## Absorbent for split liquids

• Assorbente per liquidi versati • Absorbant pour liquides répandus • Absorbente para líquidos derramados • Absorbens für verschüttete Flüssigkeiten

HEU210

### Absorbent for split liquids > RE - Pure

RE

Description ..... Polvere nocciola Identification ..... Positive

Code	Size	Packaging	Notes
300101	1 kg	Plastic bottle	
300102	5 kg	Plastic tank	



## Acetal

• Acetale • Acétal • Acetal • Acetal

Synonym:

- 1,1-Diethoxyacetal
- 1,1-Diethoxyethane

$\text{CH}_2\text{CH}(\text{OC}_2\text{H}_5)_2$   
Molecular Weight: 118,18  
CAS: 105-57-7  
EEC-N: 203-310-6

**Classification transport**  
ONU: 1088  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H315-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P332+P313

### Acetal > RE - Pure - Reagent Ph.Eur.

RE

Description ..... Clear colourless liquid Density at 20° C ..... 0.822 ÷ 0.829 Assay (GLC) ..... ≥ 98.5 %  
Identification ..... Positive Refractive index at 20°C ..... 1.3790 ÷ 1.3850

Code	Size	Packaging	Notes
400155	100 ml	Glass bottle	



## Acetamide

• Acetammide • Acétamide • Acetamida • Acetamid

Synonym:

Amide C2

$\text{CH}_3\text{CONH}_2$   
Molecular Weight: 59,07  
CAS: 60-35-5  
EEC-N: 200-473-5



**Warning**  
H351  
P201-P202-P280-P308+P313-P405-P501a

### Acetamide > RPE - For analysis

RPE

Description ..... Colourless crystals Acetate ..... ≤0.2 % Heavy metals (Pb) ..... ≤5 ppm Fe ..... ≤5 ppm  
Identification ..... Positive Chloride ..... ≤20 ppm Residue on ignition ..... ≤100 ppm Assay (ex nitrogen) ..... 99 ÷ 100 %  
Melting point ..... 78.5 ÷ 81.5 °C Alcohol-benzene insol. .... ≤100 ppm Sulphate ..... ≤20 ppm

Code	Size	Packaging	Notes
400204	100 g	Plastic bottle	



## Acetanilide

• Acetanilide • Acétanilide • Acetanilida • Acetanilid

Synonym:

N-Phenylacetamide

$\text{CH}_3\text{CONHC}_6\text{H}_5$   
Molecular Weight: 135,17  
CAS: 103-84-4  
EEC-N: 203-150-7



**Warning**  
H302  
P264-P270-P301+P312a-P330-P501a

### Acetanilide > RPE - For analysis

RPE

Description ..... white to beige to grey to light brown ..... powder or crystals or flakes Melting point ..... 111 ÷ 115 ° C Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
400255	250 g	Plastic bottle	





## Acetate buffer pH 6.0

• Tampone acetato pH 6.0 • Tampon acétate pH 6.0 • Tampón acetato pH 6.0 • Puffer acetate pH 6.0

**Acetate buffer pH 6.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614002200	1 l	Plastic bottle	Ref Ph.Eur 4002200



## Acetate buffer pH 4.6

• Tampone acetato pH 4.6 • Tampon acétate pH 4.6 • Tampón acetato pH 4.6 • Puffer acetate pH 4.6

**Acetate buffer pH 4.6 > RS - For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614001400	1 l	Plastic bottle	Ref Ph.Eur 4001400



## Acetic acid glacial

• Acido acetico glacial • Acide acétique glacial • Acido acético glacial • Essigsäure

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7  
EEC-N: 200-580-7

**Classification transport**  
ONU: 2789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H226-H314  
P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Acetic acid glacial > RS - For LC/MS**

RS

Description	Clear colourless liquid	Subst. reducing KMnO <sub>4</sub>	Conform	at 260 nm	≥ 80 %	Ca	≤ 0.1 ppm
Colour (APHA)	≤ 10	Subst. reducing dichromate	Conform	at 270 nm	≥ 95 %	Mg	≤ 0.1 ppm
Refractive index at 20°C	1.3711 ÷ 1.3731	Residue on evaporation	≤ 5 ppm	at 280 nm	≥ 97 %	K	≤ 0.1 ppm
Density at 20° C	1.0501 ÷ 1.0521	Assay (GC)	≥ 99.95 %	Al	≤ 0.05 ppm		
Boiling point	118.3 - 118.8 °C	U.V. Transmittance		Fe	≤ 0.2 ppm		
Water (K.F.)	≤ 0.1 %	at 254 nm	≥ 30 %	Na	≤ 0.5 ppm		

Code	Size	Packaging	Notes
401411	10 x 1 ml	Glass ampoule	
401412	10 x 2.5 ml	Bottle	
401413	50 ml	Plastic bottle	
401414	1 l	Glass bottle	

**Additive for eluent phase for LC-MS. Store at temperature > 20 °C**

**Acetic acid glacial > RS - For HPLC - Isocratic Grade**

RS

Appearance	Clear colourless liquid	Water content (K.F.)	≤ 0.05 % m/m	UV transmittance at 260 nm	≥ 80 %	Assay (GC)	≥ 99.8 %
Colour	≤ 10 Hazen	UV transmittance at 254 nm	≥ 25 %	Non volatile residue	≤ 10 mg/Kg		

Code	Size	Packaging	Notes
401431	1 l	Glass bottle	
401432	2.5 l	Glass bottle	

**Store at temperature > 20 °C**



## Acetic acid glacial > RS - Ultrapure - For trace analysis at ppt level

RS

Description .....	Clear colourless liquid	Mn .....	≤ 10 ppt	Cs .....	≤ 10 ppt	Re .....	≤ 10 ppt
Identification .....	Positive	Mo .....	≤ 10 ppt	Dy .....	≤ 1 ppt	Rh .....	≤ 50 ppt
Ag .....	≤ 50 ppt	Na .....	≤ 100 ppt	Er .....	≤ 1 ppt	Rb .....	≤ 10 ppt
Al .....	≤ 50 ppt	Ni .....	≤ 50 ppt	Eu .....	≤ 1 ppt	Ru .....	≤ 50 ppt
As .....	≤ 50 ppt	Pb .....	≤ 10 ppt	Gd .....	≤ 1 ppt	Sm .....	≤ 1 ppt
Ba .....	≤ 10 ppt	Sb .....	≤ 50 ppt	Ga .....	≤ 10 ppt	Sc .....	≤ 10 ppt
Be .....	≤ 10 ppt	Sn .....	≤ 50 ppt	Ge .....	≤ 10 ppt	Te .....	≤ 1 ppt
Bi .....	≤ 10 ppt	Sr .....	≤ 10 ppt	Hf .....	≤ 10 ppt	Tb .....	≤ 1 ppt
Ca .....	≤ 50 ppt	Ti .....	≤ 10 ppt	Ho .....	≤ 1 ppt	Tm .....	≤ 1 ppt
Cd .....	≤ 10 ppt	V .....	≤ 10 ppt	In .....	≤ 1 ppt	W .....	≤ 10 ppt
Co .....	≤ 10 ppt	Zn .....	≤ 50 ppt	La .....	≤ 1 ppt	Yb .....	≤ 1 ppt
Cr .....	≤ 10 ppt	Zr .....	≤ 10 ppt	Li .....	≤ 10 ppt	Y .....	≤ 1 ppt
Cu .....	≤ 10 ppt	Assay (acidimetric) .....	≥ 99 %	Lu .....	≤ 10 ppt	Tl .....	≤ 10 ppt
Fe .....	≤ 50 ppt	U .....	≤ 1 ppt	Nd .....	≤ 1 ppt		
K .....	≤ 50 ppt	Th .....	≤ 1 ppt	Pt .....	≤ 50 ppt		
Mg .....	≤ 50 ppt	Ce .....	≤ 10 ppt	Pr .....	≤ 1 ppt		

Code	Size	Packaging	Notes
401361	500 ml	Plastic bottle	

Store at temperature > 20 °C

## Acetic acid glacial > RS - Superpure - For trace analysis at ppb level

RS

Description .....	Clear colourless liquid	Cr .....	≤ 1 ppb	Mg .....	≤ 0.5 ppb	Sr .....	≤ 0.5 ppb
Colour (APHA) .....	≤ 10	Cs .....	≤ 0.1 ppb	Mn .....	≤ 0.5 ppb	Tb .....	≤ 0.1 ppb
Identification .....	Positive	Cu .....	≤ 0.5 ppb	Mo .....	≤ 0.5 ppb	Te .....	≤ 0.5 ppb
Chloride .....	≤ 1 ppm	Dy .....	≤ 0.1 ppb	Na .....	≤ 1 ppb	Th .....	≤ 0.1 ppb
Phosphate .....	≤ 1 ppm	Er .....	≤ 0.1 ppb	Nd .....	≤ 0.1 ppb	Ti .....	≤ 0.5 ppb
Sulphate .....	≤ 0.5 ppm	Eu .....	≤ 0.1 ppb	Ni .....	≤ 0.5 ppb	Tl .....	≤ 0.1 ppb
Reducing dichromate .....	Conform	Fe .....	≤ 1 ppb	Pb .....	≤ 0.1 ppb	Tm .....	≤ 0.1 ppb
Subst. reducing KMnO4 .....	Conform	Ga .....	≤ 0.1 ppb	Pr .....	≤ 0.1 ppb	U .....	≤ 0.1 ppb
Al .....	≤ 1 ppb	Ge .....	≤ 0.5 ppb	Pt .....	≤ 0.5 ppb	V .....	≤ 0.5 ppb
Ag .....	≤ 1 ppb	Gd .....	≤ 0.1 ppb	Rb .....	≤ 0.1 ppb	W .....	≤ 0.5 ppb
As .....	≤ 0.5 ppb	Hf .....	≤ 0.1 ppb	Re .....	≤ 0.1 ppb	Y .....	≤ 0.1 ppb
Ba .....	≤ 0.5 ppb	Hg .....	≤ 1 ppb	Rh .....	≤ 0.5 ppb	Yb .....	≤ 0.1 ppb
Be .....	≤ 0.1 ppb	Ho .....	≤ 0.1 ppb	Ru .....	≤ 0.5 ppb	Zn .....	≤ 1 ppb
Bi .....	≤ 0.1 ppb	In .....	≤ 0.1 ppb	Sb .....	≤ 0.5 ppb	Zr .....	≤ 0.1 ppb
Ca .....	≤ 1 ppb	K .....	≤ 1 ppb	Sc .....	≤ 0.1 ppb	Assay (acidimetric) .....	≥ 99 %
Cd .....	≤ 0.5 ppb	La .....	≤ 0.1 ppb	Se .....	≤ 1 ppb		
Ce .....	≤ 0.1 ppb	Li .....	≤ 0.1 ppb	Sm .....	≤ 0.1 ppb		
Co .....	≤ 0.1 ppb	Lu .....	≤ 0.1 ppb	Sn .....	≤ 0.5 ppb		

Code	Size	Packaging	Notes
401405	500 ml	Plastic bottle	
401406	1 l	Plastic bottle	
401407	2.5 l	Plastic bottle	

Store at temperature > 20 °C

## Acetic acid glacial > RS - RSE - For electronic use

RS

Description .....	Clear liquid	Phosphate .....	≤ 0.1 ppm	Ca .....	≤ 0.2 ppm	Na .....	≤ 0.2 ppm
Colour (APHA) .....	≤ 10	Heavy metals (Pb) .....	≤ 0.2 ppm	Cd .....	≤ 0.01 ppm	Ni .....	≤ 0.03 ppm
Identification .....	Positive	Reducing chromic acid .....	≤ 100 ppm	Co .....	≤ 0.01 ppm	Pb .....	≤ 0.01 ppm
Water miscibility .....	Conform	Subst. reducing KMnO4 .....	≤ 10 ppm	Cr .....	≤ 0.03 ppm	Pt .....	≤ 0.05 ppm
Freezing point .....	≥ 16.24 °C	Sulphate .....	≤ 0.5 ppm	Cu .....	≤ 0.01 ppm	Sb .....	≤ 0.005 ppm
Assay (acidimetric) .....	≥ 99.9 %	Ag .....	≤ 0.02 ppm	Fe .....	≤ 0.1 ppm	Sn .....	≤ 0.02 ppm
Density at 20° C .....	1.0495 ÷ 1.0503	Al .....	≤ 0.01 ppm	Ga .....	≤ 0.02 ppm	Sr .....	≤ 0.02 ppm
Boiling point .....	118.3 ÷ 118.8 °C	As .....	≤ 0.005 ppm	In .....	≤ 0.02 ppm	Ta .....	≤ 0.1 ppm
Residue on evaporation .....	≤ 5 ppm	Au .....	≤ 0.05 ppm	K .....	≤ 0.1 ppm	Ti .....	≤ 0.05 ppm
Formic acid .....	≤ 0.1 %	B .....	≤ 0.01 ppm	Li .....	≤ 0.02 ppm	Tl .....	≤ 0.05 ppm
Acetic anhydride .....	≤ 100 ppm	Ba .....	≤ 0.1 ppm	Mg .....	≤ 0.05 ppm	V .....	≤ 0.05 ppm
Chloride .....	≤ 1 ppm	Be .....	≤ 0.02 ppm	Mn .....	≤ 0.01 ppm	Zn .....	≤ 0.05 ppm
Carbonyl Compounds (CO) .....	≤ 2 ppm	Bi .....	≤ 0.02 ppm	Mo .....	≤ 0.05 ppm	Zr .....	≤ 0.05 ppm

Code	Size	Packaging	Notes
401463	1 l	Glass bottle	
401462	2.5 l	Glass bottle	

Store at temperature > 20 °C

## Acetic acid glacial > RS - For potentiometry

**RS**

Refractive index at 20°C ..... 1.371 - 1.374	Reducing substances ..... Conform	Aluminium (Al)..... ≤ 0.05 mg/Kg	Magnesium (Mg) ..... ≤ 0.1 mg/Kg
Water content (K.F.) ..... ≤ 1000 mg/Kg	Assay (GC) ..... ≥ 99.8 %	Barium (Ba)..... ≤ 0.1 mg/Kg	Manganese (Mn) ..... ≤ 0.05 mg/Kg
Non volatile residue ..... ≤ 10 mg/Kg	Acetic anhydride ..... ≤ 0.025 %	Cadmium (Cd)..... ≤ 0.05 mg/Kg	Lead (Pb) ..... ≤ 0.05 mg/Kg
Colour ..... ≤ 10 Hazen	Chloride (Cl-)..... ≤ 1 mg/Kg	Cobalt (Co)..... ≤ 0.05 mg/Kg	Zinc (Zn) ..... ≤ 0.1 mg/Kg
Titrate base ..... Conform	Sulphate (SO4-)..... ≤ 1 mg/Kg	Iron (Fe)..... ≤ 1 mg/Kg	Arsenic (As) ..... ≤ 0.02 mg/Kg

Code	Size	Packaging	Notes
P00725P15	1 l	Plastic bottle	
P00725P21	2.5 l	Glass bottle	

**Store at temperature > 20°C**

## Acetic acid glacial > RS - For titration in non-aqueous medium

**RS**

Description ..... Clear colourless liquid	Identification ..... Positive	Density at 20° C ..... 1.049 ÷ 1.051	Assay ..... ≥ 99.8 %
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Code	Size	Packaging	Notes
401453	1 l	Glass bottle	
401455	2.5 l	Glass bottle	

**Store at temperature > 20 °C**

## Acetic acid glacial > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description . Clear liquid or crystalline mass	Formic acid ..... ≤0.05 %	Bi ..... ≤0.02 ppm	Na ..... ≤0.5 ppm
Colour (APHA) ..... ≤10	Acetic anhydride ..... ≤100 ppm	Ca ..... ≤0.2 ppm	Ni ..... ≤0.03 ppm
Identification ..... Positive	Chloride ..... ≤1 ppm	Cd ..... ≤0.05 ppm	Pb ..... ≤0.02 ppm
Water miscibility ..... Conform	Carbonyl Compounds (CO) ..... ≤50 ppm	Co ..... ≤0.01 ppm	Sr ..... ≤0.02 ppm
Titrate base ..... Conform	Phosphate ..... ≤0.5 ppm	Cr ..... ≤0.03 ppm	Ti ..... ≤0.1 ppm
Subst. reducing KMnO4 ..... Conform	Heavy metals (Pb)..... ≤0.5 ppm	Cu ..... ≤0.01 ppm	Tl ..... ≤0.05 ppm
Density at 20° C ..... 1.0501 ÷ 1.0521	Sulphate ..... ≤0.5 ppm	Fe ..... ≤0.2 ppm	V ..... ≤0.05 ppm
Refractive index at 20°C. 1.3711 ÷ 1.3731	Ag ..... ≤0.02 ppm	K ..... ≤0.1 ppm	Zn ..... ≤0.05 ppm
Boiling point ..... 118.3 ÷ 118.8 °C	Al ..... ≤0.05 ppm	Li ..... ≤0.02 ppm	Zr ..... ≤0.1 ppm
Freezing point ..... ≥16 °C	As ..... ≤0.01 ppm	Mg ..... ≤0.1 ppm	Reducing chromic acid ..... Conform ACS
Assay (acidimetric) ..... 99.5 ÷ 100.5 %	Ba ..... ≤0.1 ppm	Mn ..... ≤0.01 ppm	Water (K.F.) ..... ≤ 1500 ppm
Residue on evaporation ..... ≤ 10 ppm	Be ..... ≤0.02 ppm	Mo ..... ≤0.05 ppm	Acetaldehyde ..... ≤ 500 ppm

Code	Size	Packaging	Notes
401421	1 l	Glass bottle PVC coated	
401422	1 l	Glass bottle	
401424	2.5 l	Glass bottle	
401425	30 kg	Plastic drum	

**Store at temperature > 20 °C**

## Acetic acid glacial > RPE - For analysis

**RPE**

Description . Clear liquid or crystalline mass	Acetic anhydride ..... ≤100 ppm	Ca ..... ≤0.2 ppm	Ni ..... ≤0.03 ppm
Colour (APHA) ..... ≤10	Chloride ..... ≤1 ppm	Cd ..... ≤0.05 ppm	Pb ..... ≤0.02 ppm
Identification ..... Positive	Carbonyl Compounds (CO) ..... ≤50 ppm	Co ..... ≤0.01 ppm	Sr ..... ≤0.02 ppm
Water miscibility ..... Conform	Phosphate ..... ≤0.5 ppm	Cr ..... ≤0.03 ppm	Ti ..... ≤0.1 ppm
Subst. reducing KMnO4 ..... Conform	Heavy metals (Pb)..... ≤0.5 ppm	Cu ..... ≤0.01 ppm	Tl ..... ≤0.05 ppm
Density at 20° C ..... 1.0501 ÷ 1.0521	Sulphate ..... ≤0.5 ppm	Fe ..... ≤0.5 ppm	V ..... ≤0.05 ppm
Refractive index at 20°C. 1.3711 ÷ 1.3731	Ag ..... ≤0.02 ppm	K ..... ≤0.1 ppm	Zn ..... ≤0.05 ppm
Boiling point ..... 118.3 ÷ 118.8 °C	Al ..... ≤0.05 ppm	Li ..... ≤0.02 ppm	Zr ..... ≤0.1 ppm
Freezing point ..... ≥16 °C	As ..... ≤0.01 ppm	Mg ..... ≤0.1 ppm	Water (K.F.) ..... ≤ 1500 ppm
Assay (acidimetric) ..... 99.5 ÷ 100.5 %	Ba ..... ≤0.1 ppm	Mn ..... ≤0.01 ppm	Assay (CPG) ..... ≥ 99.8 %
Residue on evaporation ..... ≤10 ppm	Be ..... ≤0.02 ppm	Mo ..... ≤0.05 ppm	Acetaldehyde ..... ≤ 500 ppm
Formic acid ..... ≤0.05 %	Bi ..... ≤0.02 ppm	Na ..... ≤0.5 ppm	

Code	Size	Packaging	Notes
401391	1 l	Glass bottle	
524520	1 l	Plastic bottle	
401392	2.5 l	Glass bottle	
524521	2.5 l	Plastic bottle	
401396	30 kg	Plastic drum	
401397	200 kg	Polythene-metal drum	

**Store at temperature > 20°C**

**Acetic acid glacial > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-NF-DAB-JP****ERBApharm**

Description .....	Clear, colourless liquid or crystalline mass	Reducing impurities.....	Conform Ph.Eur.	Water (K.F.) .....	≤ 3000 ppm	Heavy metals (Pb).....	≤ 5 ppm
Identification .....	Positive	Ready oxidizable substances.....	Conform USP-NF	Residue on evaporation .....	≤ 50 mg/l	Fe .....	≤ 5 ppm
Appearance of solution .....	Conform Ph.Eur.	Freezing point .....	≥ 15.6 °C	Chloride.....	≤ 2 mg/l	Assay (acidimetric) .....	99.5 ÷ 100.5 %
Colour .....	≤ 10 APHA	Refractive index at 20°C.....	1.370 - 1.374	Sulphate.....	≤ 2 mg/l	Origin (BSE/TSE).....	Synthesis
				Sulfate.....	Conform USP-NF		

Code	Size	Packaging	Notes
302016	1 l	Glass bottle	
302011	2.5 l	Glass bottle	
302014	5 l	Plastic tank	
302015	30 kg	Plastic drum	
302013	200 kg	Polythene-metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade. Store at temperature > 20 °C**

**Acetic acid glacial > RE - Pure****RE**

Description .....	Clear liquid	Subst. reducing KMnO4.....	≤ 40 ppm	Water .....	≤ 2500 ppm	Sulphate .....	≤ 2 ppm
Density at 20°C .....	1.049 ÷ 1.051	Density at 20° C .....	1.050 ÷ 1.052	Formic acid.....	≤ 100 ppm	As .....	≤ 0.5 ppm
Colour (APHA) .....	≤ 10	Refractive index at 20°C.....	1.371 ÷ 1.373	Chloride.....	≤ 1 ppm	Cu.....	≤ 0.1 ppm
Identification .....	Positive	Boiling point.....	118.3 ÷ 118.8 °C	Carbonyl Compounds (CO) .....	≤ 2 ppm	Fe .....	≤ 1 ppm
Water miscibility.....	Conform	Freezing point .....	≥ 16.24 °C	Heavy metals (Pb).....	≤ 1 ppm	Ni.....	≤ 0.1 ppm
Assay .....	≥ 99 %	Residue on evaporation .....	≤ 30 ppm	Reducing chromic acid .....	≤ 30 ppm	Assay (acidimetric) .....	≥ 99.8 %

Code	Size	Packaging	Notes
302031	1 l	Plastic bottle	
302032	2.5 l	Glass bottle	
302034	5 l	Plastic tank	
302033	10 l	Plastic tank	

**Store at temperature > 20 °C**

**Acetic acid glacial > RE - Pure - For fibers****RE**

Description .....	Clear liquid	Boiling point.....	118.3 ÷ 118.8 °C	Carbonyl Compounds (CO) .....	≤50 ppm	Fe .....	≤0.5 ppm
Colour (APHA) .....	≤10	Subst. reducing KMnO4.....	≤40 ppm	Heavy metals (Pb).....	≤1 ppm	Ni .....	≤0.1 ppm
Identification .....	Positive	Residue on evaporation .....	≤8 ppm	Sulphate.....	≤1 ppm	Assay .....	≥ 99.8 %
Water miscibility.....	Conform	Formic acid.....	≤0.1 %	Al .....	≤0.1 ppm	Water (K.F.) .....	≤ 2500 ppm
Density at 20° C .....	1.050 ÷ 1.052	Acetic anhydride .....	≤500 ppm	As .....	≤0.5 ppm	Assay (CPG) .....	≥ 99.5 %
Refractive index at 20°C.....	1.3711 ÷ 1.3731	Chloride.....	≤1 ppm	Cu.....	≤0.1 ppm	Freezing point .....	16.2 ÷ 16.6 °C

Code	Size	Packaging	Notes
302021	200 kg	Polythene-metal drum	

**Store at temperature > 20 °C**

**Acetic acid 96%**

• Acido acetico 96% • Acide acétique 96% • Acido acético 96% • Essigsäure 96%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7  
EEC-N: 200-580-7

**Classification transport**

ONU: 2789  
Transport Hazard class: 8  
Packing group II

**Danger**

H226-H314  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Acetic acid 96% > RE - Pure****RE**

Description .....	Clear colourless liquid	Density at 20° C .....	1.049 ÷ 1.051	Heavy metals (Pb).....	≤50 ppm	Iron .....	≤50 ppm
Identification .....	Positive	Residue on evaporation .....	≤100 ppm	Sulphate .....	≤1000 ppm	Assay (acidimetric) .....	≥96 %

Code	Size	Packaging	Notes
302002	1 l	Glass bottle	
302003	2.5 l	Glass bottle	
302005	25 kg	Plastic tank	
302007	50 kg	Plastic tank	

**Store at temperature > 20 °C**



## Acetic acid 80%

• Acido acetico 80% • Acide acétique 80% • Acido acético 80% • Essigsäure 80%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

**Classification transport**  
ONU: 2789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H226-H314  
P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Acetic acid 80% > RE - Pure

RE

Description .....	Clear liquid	Density at 20° C .....	1.069 ÷ 1.071	Acetic anhydride .....	≤500 ppm	As .....	≤0.4 ppm
Acetic acid content .....	80.5 - 82.5 %	Subst. reducing KMnO <sub>4</sub> .....	≤40 ppm	Chloride .....	≤1 ppm	Cu .....	≤0.1 ppm
Colour (APHA) .....	≤10	Residue on evaporation .....	≤30 ppm	Heavy metals (Pb) .....	≤2 ppm	Fe .....	≤0.5 ppm
Identification .....	Positive	Formic acid .....	≤200 ppm	Sulphate .....	≤1 ppm	Ni .....	≤0.1 ppm
Water miscibility .....	Conform	Alcoh acetone acetaldehyd .....	≤50 ppm	Al .....	≤0.1 ppm	Assay (acidimetric) .....	80.5 ÷ 82.5 %

Code	Size	Packaging	Notes
301855	5 l	Plastic tank	
301852	50 kg	Plastic tank	
301853	200 kg	Plastic drum	

Store at temperature > 20°C



## Acetic acid 45%

• Acido acetico 45% • Acide acétique 45% • Acido acético 45% • Essigsäure 45%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Acetic acid 45% > RE - Pure - For glassware washing

RE

Description .....

Clear colourless liquid	Assay (acetic acid) .....	44 ÷ 46 %
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Code	Size	Packaging	Notes
526545	5 l	Plastic tank	
526546	10 l	Plastic tank	



## Acetic acid 30%

• Acido acetico 30% • Acide acétique 30% • Acido acético 30% • Essigsäure 30%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Acetic acid 30% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Assay .....

290 - 310 g/L
---------------

Code	Size	Packaging	Notes
611000401	1 l	Glass bottle	Ref Ph.Eur 1000401

**Acetic acid 27%**

• Acido acetico 27% • Acide acétique 27% • Acido acético 27 % • Essigsäure 27%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Acetic acid 27% > RS - For glassware washing****RS**

Assay (acidimetric) ..... 26 ÷ 28 %

Code	Size	Packaging	Notes
508645	5 l	Plastic tank	

**Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed****Acetic acid 25%**

• Acido acetico 25% • Acide acétique 25% • Acido acético 25 % • Essigsäure 25%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Acetic acid 25% > RE - Pure****RE**

Density d20/4 ..... 1.03 - 1.032 Acetic acid content ..... 24 - 26 %

Code	Size	Packaging	Notes
PS0222/52	30 l	Plastic tank	

**Acetic acid 20%**

• Acido acetico 20% • Acide acétique 20% • Acido acético 20 % • Essigsäure 20%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III**Warning**  
H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313**Acetic acid 20% > RPE - For analysis****RPE**

Density d20/4 ..... 1.024 - 1.026 Acetic acid content ..... 19 - 21 %

Code	Size	Packaging	Notes
PS0237/41	10 l	Plastic tank	

**Acetic acid 12%**

• Acido acetico 12% • Acide acétique 12% • Acido acético 12 % • Essigsäure 12%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III**Warning**  
H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313**Acetic acid 12% > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611000402	1 l	Plastic bottle	Ref Ph.Eur 1000402

**Acetic acid 12% > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.014 ÷ 1.016 Assay (acidimetric) ..... 11.5 - 12.5 %

Code	Size	Packaging	Notes
401531	1 l	Plastic bottle	

**Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed**



## Acetic acid 12% > RE - Pure

RE

Density d20/4 ..... 1.014 - 1.015    Acetic acid content ..... 11.5 - 12.5 %

Code	Size	Packaging	Notes
PS0221/29	5 l	Plastic tank	



## Acetic acid 1 mol/l (1N)

• Acido acetico 1 mol/l (1N) • Acide acétique 1 mol/l (1N) • Acido acético 1 mol/l (1N) • Essigsäure 1 mol/l (1N)

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

## Acetic acid 1 mol/l (1N) > RPE - For analysis - Reag. Ph.Eur. - Reag. USP

RPE

Assay (potentiometric) ..... 0.998 ÷ 1.002 mol/L

Code	Size	Packaging	Notes
524605	5 l	Plastic tank	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**

## Acetic acid 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Assay (potentiometry) ..... 0.999 - 1.001 N

Code	Size	Packaging	Notes
502000	1 l	Plastic bottle	

**Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed**



## Acetic acid 0.1 mol/l (0.1N)

• Acido acetico 0.1 mol/l (0.1N) • Acide acétique 0.1 mol/l (0.1N) • Acido acético 0.1 mol/l (0.1N) • Essigsäure 0.1 mol/l (0.1N)

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

## Acetic acid 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.0999 - 0.1001 N

Code	Size	Packaging	Notes
P3100015	1 l	Plastic bottle	

## Acetic acid 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
401561		Plastic ampoule	Volume: 55 ml

**6,005 g of CH<sub>3</sub>COOH. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



## Acetic acid 0.03 mol/l (0.03N)

• Acido acetico 0.03 mol/l (0.03N) • Acide acétique 0.03 mol/l (0.03N) • Acido acético 0.03 mol/l (0.03N) • Essigsäure 0.03 mol/l (0.03N)

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

## Acetic acid 0.03 mol/l (0.03N) > RPE - For analysis - Reag. Ph.Eur. - Reag. USP

RPE

Assay (potentiometric) ..... 0.02994 ÷ 0.03006 mol/L

Code	Size	Packaging	Notes
524611	10 l	Kubidos	

**Acetic acid-d4**

• Acido acetico-d4 • Acide acétique-d4 • Acido acético-d4 • Essigsäure d-4

Synonym:

Tetradeuteroacetic acid

CD<sub>3</sub>COOD  
Molecular Weight: 64,08  
CAS: 1186-52-3  
EEC-N: 214-693-4**Classification transport**ONU: 2789  
Transport Hazard class: 8  
Packing group II**Danger**H226-H314  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Acetic acid-d4 > RS - For NMR - min 99,9%****RS**

Code	Size	Packaging	Notes
P5039	10 x 0.75 ml	Glass ampoule	

**For specifications, contact our customer service for a certificate of analysis**

Acetic acid isopropyl ester ► Isopropyl acetate

Acetic acid magnesium salt ► Magnesium acetate tetrahydrate

**Acetic anhydride**

• Anidride acetica • Anhydride acétique • Anhidrido acético • Essigsäureanhydrid

(CH<sub>3</sub>CO)<sub>2</sub>O  
Molecular Weight: 102,09  
CAS: 108-24-7**Classification transport**ONU: 2733  
Transport Hazard class: 3  
Packing group II**Danger**H225-H302-H312-H332-H314-H335  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P362+P364-  
P403+P233**Acetic anhydride > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611000501	1 l	Glass bottle	Acetic anhydride solution R1 Ref Ph.Eur 1000501

**Storage: protected from light and air****Acetic anhydride > RPE - For analysis - ACS****RPE**

Description	Clear liquid	Refractive index at 20°C. 1.3881 ÷ 1.3931	Chloride	≤5 ppm	Fe	≤5 ppm
Colour (APHA)	≤20	Boiling point. 136 ÷ 142 °C	Phosphate	≤10 ppm	Assay (GLC)	≥97.0 %
Identification	Positive	Residue on evaporation	Heavy metals (Pb)	≤2 ppm		
Density at 20° C	1.080 ÷ 1.084	Subst. reducing KMnO <sub>4</sub>	Sulphate	≤5 ppm		

Code	Size	Packaging	Notes
421491	1 l	Glass bottle	
421496	2.5 l	Glass bottle	
421493	30 kg	Plastic drum	

**Storage: protected from light and air****Acetic anhydride > RE - Pure****RE**

Description	Clear liquid	Refractive index at 20°C. 1.3856 ÷ 1.3956	Chloride	≤5 ppm	Assay (GLC)	≥99.5 %
Identification	Positive	Residue on evaporation	Heavy metals (Pb)	≤ 2 ppm	Assay (acidimetric)	≥99.5 % (m/m)
Colour	≤ 10 APHA	Subs. reducing KMnO <sub>4</sub>	Al	≤ 1 ppm		
Density at 20° C	1.079 ÷ 1.085	Acetic acid	Fe	≤ 1 ppm		

Code	Size	Packaging	Notes
316501	1 l	Glass bottle	
316503	30 kg	Plastic drum	
316502	210 kg	Metal drum	

**Storage: protected from light and air**

Acetoacetic ester ► Ethyl acetoacetate



## Acetone

• Acetone • Acétone • Acetona • Aceton

Synonym:  
2-Propanone

CH<sub>3</sub>COCH<sub>3</sub>  
Molecular Weight: 58,01  
CAS: 67-64-1  
EEC-N: 200-662-2

**Classification transport**  
ONU: 1090  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336-HEU066  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233

### Acetone > RS - For HPLC - Isocratic Grade

RS

Description .....	Clear colourless liquid	Boiling point.....	55.8 ÷ 56.3 ° C	Alcalinity.....	≤0.0002 meq/g	at 340 nm .....	≥ 85 %
Identification .....	Positive	Water (K.F).....	≤ 500 ppm	Assay (GLC) .....	≥99.9 %	At 345 nm .....	≥ 90 %
Density at 20° C .....	0.790 ÷ 0.792	Residue on evaporation .....	≤5 ppm	U.V. Transmittance		at 350 nm .....	≥ 98 %
Refractive index at 20°C.....	1.3581 ÷ 1.3601	Acidity .....	≤0.0005 meq/g	At 335 nm .....	≥ 60 %	at 360 nm .....	≥ 99 %

Code	Size	Packaging	Notes
412501	1 l	Glass bottle	
412502	2.5 l	Glass bottle	

### Acetone > RS - For GC-MS

RS

Appearance .....	Clear colourless liquid	Residue on evaporation .....	≤ 2 ppm	Methyl alcohol.....	≤ 500 ppm	Ret.range n-undecane to n-tetracontane
Refractive index at 20°C.....	1.357 - 1.361	Acidity (acetic acid).....	≤ 20 ppm	Isopropyl alcohol .....	≤ 500 ppm	
Water (K.F) .....	≤ 500 ppm	Assay (GC) .....	≥ 99.95 %	GC-MS.Individual peak (n-hexadecane) .	≤ 2 µg/L	
Colour .....	≤ 10 APHA	Ethyl alcohol .....	≤ 100 ppm			

Code	Size	Packaging	Notes
400952	1 l	Glass bottle	

### Acetone > RS - ATRASOL - For traces analysis

RS

Appearance .....	Clear colourless liquid	Free acid (as CH <sub>3</sub> COOH).....	≤ 20 mg/Kg	2-Propanol.....	≤ 500 mg/Kg	Ret.range 1,2,4-trichlorobenzene
Refractive index at 20°C.....	1.357 - 1.361	Assay (GC) .....	≥ 99.9 %	GC-ECD.Individual peak (CCl <sub>4</sub> ) .....	≤ 1 µg/l	to decachlorobiphenyle
Water content (K.F) .....	≤ 500 mg/Kg	GC ( FID ) - NC Atrasol .....	Conform	Ret.range dichloromethane		GC-FID.Individual peak (n-hexadecane) .
Non volatile residue.....	≤ 2 mg/Kg	Ethanol .....	≤ 100 mg/Kg	to 1,2,4-trichlorobenzene		≤ 2 µg/L
Colour .....	≤ 10 Hazen	Methanol .....	≤ 500 mg/Kg	GC-ECD.Individual peak (Lindane) .	≤ 2 ng/L	Ret.range n-undecane to n-tetracontane

Code	Size	Packaging	Notes
P0053216	1 l	Glass bottle	
P0053221	2.5 l	Glass bottle	
P0053282	4 l	Glass bottle	

### Acetone > RS - PESTIPUR - For pesticide analysis

RS

Description .....	Clear liquid	Assay (GLC) .....	≥ 99.8 %	Free acid (as CH <sub>3</sub> COOH).....	≤ 20 mg/kg	Refractive index at 20°C.....	1.357 ÷ 1.361
Identification .....	Positive	Water .....	≤ 0.05 %	GC-ECD (Lindane standard) .....	≤ 3 ng/l		
Colour .....	≤ 10 hazen	Not volatile residue.....	≤ 2 mg/kg	GC-NPD (Ethylparathion standard) ..	≤ 3 ng/l		

Code	Size	Packaging	Notes
400991	1 l	Glass bottle	
400992000	2.5 l	Glass bottle	
400994	4 l	Glass bottle	

### Acetone > RS - PESTIPUR - For pesticide analysis - PAH guaranteed

RS

Description .....	Clear liquid	Assay (GLC) .....	≥ 99.8 %	GC-ECD (Lindane standard) .....	≤ 3 ng/l	Test against standard (each 16 PAH) .	≤ 0.1 µg/l
Identification .....	Positive	Water .....	≤ 0.05 %	GC-NPD (Ethylparathion standard) ..	≤ 3 ng/l		
Colour .....	≤ 10 hazen	Not volatile residue.....	≤ 2 mg/kg	PAH test (according to ISO 17993) ..	Passes test		
Refractive index at 20°C.....	1.357 ÷ 1.361	Free acid (as CH <sub>3</sub> COOH).....	≤ 20 mg/kg				

Code	Size	Packaging	Notes
400932	2.5 l	Glass bottle	

**16 selected PAHs tested according to ISO 17993:2002, each max 0,1 µg/l**

**Acetone > RS - SPECTROSOL - For optical spectroscopy**

RS

Description .....	Clear liquid	Boiling point.....	55.8 ÷ 56.3 °C	Assay (GLC) .....	≥99.9 %	at 335 nm .....	≥60 %
Colour (APHA) .....	≤10	Water (K.F.) .....	≤ 500 ppm	Fluorescence .....		at 340 nm .....	≥85 %
Identification .....	Positive	Residue on evaporation .....	≤5 ppm	at 365 nm .....	≤2 ppb	at 345 nm .....	≥95 %
Density at 20° C .....	0.790 ÷ 0.792	Acidity .....	≤0.0005 meq/g	U.V. Transmittance .....		at 350 nm .....	≥98 %
Refractive index at 20°C .....	1.3581 ÷ 1.3601	Alcalinity .....	≤0.0002 meq/g	at 330 nm .....	≥16 %		

Code	Size	Packaging	Notes
401034	1 l	Glass bottle	
401032	2.5 l	Glass bottle	

**Acetone > RS - Anhydrous - For analysis**

RS

Clear, colourless liq. appearance .....	Conform	Non volatile residue .....	≤ 10 mg/Kg	Diacetyl alcohol .....	≤ 500 mg/Kg	2-Propanol .....	≤ 500 mg/Kg
Refractive index at 20°C .....	1.357 - 1.361	Assay (GC) .....	≥ 99.8 %	Benzene .....	≤ 2 mg/Kg		
Density at 20/20 .....	0.790 - 0.793	Colour .....	≤ 10 Hazen	Methanol .....	≤ 500 mg/Kg		
Water content (K.F.) .....	≤ 100 mg/Kg	Free acid (as CH <sub>3</sub> COOH) .....	≤ 20 mg/Kg	Ethanol .....	≤ 100 mg/Kg		

Code	Size	Packaging	Notes
P0051010	200 ml	Bottle with septum	
P0051016	1 l	Glass bottle	

**Acetone > RS - VLSI - For electronic use**

RS

Code	Size	Packaging	Notes
527651	1 l	Plastic bottle	
527650	2.5 l	Plastic bottle	
527655	5 l	Plastic bottle	

**Particles control < 250 particles 0.5 µm/ml****For specifications, contact our customer service for a certificate of analysis****Acetone > RS - RSE - For electronic use**

RS

Description .....	Clear liquid	Methyl alcohol .....	≤500 ppm	Bi .....	≤0.02 ppm	Na .....	≤0.2 ppm
Colour (APHA) .....	≤10	Aldehyde .....	≤10 ppm	Ca .....	≤0.1 ppm	Ni .....	≤0.01 ppm
Identification .....	Positive	Chloride .....	≤0.1 ppm	Cd .....	≤0.005 ppm	Pb .....	≤0.01 ppm
Water miscibility .....	Conform	Phosphate .....	≤0.1 ppm	Co .....	≤0.005 ppm	Pt .....	≤0.02 ppm
Assay (GLC) .....	≥99.8 %	Heavy metals (Pb) .....	≤0.2 ppm	Cr .....	≤0.01 ppm	Sb .....	≤0.01 ppm
Resistivity .....	≥5 Mohm.cm	Sulphate .....	≤0.5 ppm	Cu .....	≤0.01 ppm	Sn .....	≤0.02 ppm
Density at 20° C .....	0.790 ÷ 0.792	Subst. reducing KMnO <sub>4</sub> .....	≤2 ppm	Fe .....	≤0.05 ppm	Sr .....	≤0.02 ppm
Boiling point .....	55.8 ÷ 56.3 °	Ag .....	≤0.02 ppm	Ga .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Water (K.F.) .....	≤0.2 %	Al .....	≤0.05 ppm	In .....	≤0.02 ppm	Tl .....	≤0.05 ppm
Residue on evaporation .....	≤5 ppm	As .....	≤0.01 ppm	K .....	≤0.1 ppm	V .....	≤0.05 ppm
Acidity (formic acid) .....	≤15 ppm	Au .....	≤0.05 ppm	Li .....	≤0.02 ppm	Zn .....	≤0.01 ppm
Alcalinity (NH <sub>3</sub> ) .....	≤2 ppm	B .....	≤0.01 ppm	Mg .....	≤0.1 ppm	Zr .....	≤0.05 ppm
Ethyl alcohol .....	≤100 ppm	Ba .....	≤0.1 ppm	Mn .....	≤0.01 ppm		
Isopropyl alcohol .....	≤500 ppm	Be .....	≤0.02 ppm	Mo .....	≤0.05 ppm		

Code	Size	Packaging	Notes
401051	1 l	Glass bottle	
401058	2.5 l	Glass bottle	
401054	5 l	Plastic tank	
401055	5 l	Metal tank	
401052	22 kg	Metal drum	

## Acetone > RS - MOS - For electronic use

RS

Description .....	Clear liquid	Methyl alcohol.....	≤500 ppm	Bi.....	≤0.02 ppm	Na.....	≤0.2 ppm
Colour (APHA) .....	≤10	Aldehyde.....	≤10 ppm	Ca.....	≤0.1 ppm	Ni.....	≤0.01 ppm
Identification .....	Positive	Chloride.....	≤0.1 ppm	Cd.....	≤0.005 ppm	Pb.....	≤0.01 ppm
Water miscibility.....	Conform	Phosphate.....	≤0.1 ppm	Co.....	≤0.005 ppm	Pt.....	≤0.02 ppm
Assay (GLC) .....	≥99.8 %	Heavy metals (Pb).....	≤0.2 ppm	Cr.....	≤0.01 ppm	Sb.....	≤0.01 ppm
Resistivity .....	≥5 Mohm.cm	Sulphate.....	≤0.5 ppm	Cu.....	≤0.01 ppm	Sn.....	≤0.02 ppm
Density at 20° C .....	0.790 ÷ 0.792	Subst. reducing KMnO4.....	≤2 ppm	Fe.....	≤0.05 ppm	Sr.....	≤0.02 ppm
Boiling point.....	55.8 ÷ 56.3 °	Ag.....	≤0.02 ppm	Ga.....	≤0.02 ppm	Ti.....	≤0.05 ppm
Water (K.F.).....	≤0.2 %	Al.....	≤0.05 ppm	In.....	≤0.02 ppm	Tl.....	≤0.05 ppm
Residue on evaporation .....	≤5 ppm	As.....	≤0.01 ppm	K.....	≤0.1 ppm	V.....	≤0.05 ppm
Acidity (formic acid).....	≤15 ppm	Au.....	≤0.05 ppm	Li.....	≤0.02 ppm	Zn.....	≤0.01 ppm
Alcalinity (NH3).....	≤2 ppm	B.....	≤0.01 ppm	Mg.....	≤0.1 ppm	Zr.....	≤0.05 ppm
Ethyl alcohol .....	≤100 ppm	Ba.....	≤0.1 ppm	Mn.....	≤0.1 ppm		
Isopropyl alcohol .....	≤500 ppm	Be.....	≤0.02 ppm	Mo.....	≤0.05 ppm		

Code	Size	Packaging	Notes
401042	1 l	Glass bottle	
401041	2.5 l	Glass bottle	

## Acetone > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614000100	1 l	Glass bottle	Buffered acetone solution Ref Ph.Eur 4000100

## Acetone > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description .....	Clear liquid	Acidity.....	≤0.0003 meq/g	B.....	≤0.1 ppm	Mn.....	≤0.02 ppm
Colour (APHA) .....	≤10	Alcalinity.....	≤0.0006 meq/g	Ba.....	≤0.1 ppm	Ni.....	≤0.01 ppm
Identification (I.R.).....	Conform	Ethyl alcohol .....	≤100 ppm	Ca.....	≤0.5 ppm	Pb.....	≤0.01 ppm
Water solubility.....	Conform	Isopropyl alcohol .....	≤500 ppm	Cd.....	≤0.05 ppm	Sn.....	≤0.1 ppm
Density at 20° C .....	0.790 ÷ 0.792	Methyl alcohol.....	≤500 ppm	Co.....	≤0.05 ppm	Zn.....	≤0.2 ppm
Refractive index at 20°C.1.3581 ÷ 1.3601		Aldehyde .....	≤10 ppm	Cr.....	≤0.02 ppm	Assay (GLC).....	≥99.8 %
Boiling point.....	55.8 ÷ 56.3 ° C	Heavy metals (Pb).....	≤0.2 ppm	Cu.....	≤0.01 ppm	Related substances (GLC).....	Conform
Water (K.F.).....	≤0.2 %	Subst. reducing KMnO4.....	≤2 ppm	Fe.....	≤0.1 ppm	Benzene .....	≤ 2 ppm
Residue on evaporation .....	≤10 ppm	Al.....	≤0.5 ppm	Mg.....	≤0.02 ppm	Diacetyl alcohol.....	≤ 500 ppm

Code	Size	Packaging	Notes
400961	1 l	Plastic bottle	
400971	1 l	Glass bottle	
400965	2.5 l	Plastic bottle	
400974	2.5 l	Glass bottle	
400962	5 l	Plastic tank	
400963	10 l	Plastic tank	
400978	16 kg	Plastic tank	
400972	22 kg	Metal drum	
400979	160 kg	Metal drum	

## Acetone > ERBapharm - According to pharmacopoeia: BP-NF-Ph.Eur.

ERBapharm

Description .....	Clear colourless liquid	Appearance of solution .....	Conform Ph. Eur.	Impurity C.....	≤ 2 ppm (v/v)	Assay (GLC) .....	≥ 99.0 %
Density at 20°C .....	0.790 ÷ 0.793	Acidity or alcalinity.....	Conform Ph.Eur.	Other impurities (GC).....	≤ 0.05 % (v/v)	Density at 25°C .....	≤ 0.789
Identification B (Ph.Eur).....	Positive	Water insoluble substances.....	Conform Ph.Eur.	Reducing substances .....	Conform Ph.Eur.	Water (GLC).....	≤ 0.5 %
Identification C (Ph.Eur) .....	Positive	Related substances (GLC) .....	Conform Ph.Eur.	Water (K.F.).....	≤ 3 g/l	Origin (BSE/TSE).....	Synthesis
Identification (I.R.).....	Positive	Impurities A,B .....	≤ 0.05 %v/v	Residue on evaporation .....	≤ 40 ppm(p/v)	Residual solvents (Current ICH).....	Conform

Code	Size	Packaging	Notes
301505	1 l	Glass bottle	
301506	2.5 l	Glass bottle	
301502	5 l	Aluminium can	
301503	5 l	Plastic tank	
301501	16 kg	Plastic tank	
301504	22 kg	Metal drum	
301507	160 kg	Metal drum	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade



**Acetone > RE - Pure****RE**

Description .....	Clear liquid	Density at 20°C .....	0.788÷0.792	Water (K.F.) .....	≤0.25 % m/m	Assay (GLC) .....	≥99.8 % (GLC)
Colour .....	≤10 APHA	Refractive index at 20°C...	1.3601÷1.3581	Residue on evaporation .....	≤15 ppm	Acidity (acetic acid).....	≤ 200 ppm
Identity (IR).....	Positive	Boiling point.....	55.7÷56.7 °C	Water miscibility.....	Complete	Diacetyl alcohol.....	≤ 500 ppm

Code	Size	Packaging	Notes
508200	1 l	Glass bottle	
508201	2.5 l	Glass bottle	
528203	5 l	Plastic tank	
528206	10 l	Plastic tank	
528201	25 l	Plastic tank	
528204	200 l	Metal drum	

**Acetone / water 98/2 (v/v) with bromophenol blue 0.02 g/l**

- Acetone / Acqua 98/2 (v/v) + Blu di Bromofenolo 0.02 g/l • Acétone / eau 98/2 (v/v) + Bleu de Bromophénol 0.02 g/l
- Acetona / Agua 98/2 (v/v) + Azul de bromofenol 0.02 g/l • Aceton / Wasser 98/2 (v/v) mit Bromphenolblau 0.02 g/l

**Classification transport**

ONU: 1090  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H319-H336  
 P210-P280-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P233

**Acetone / water 98/2 (v/v) with bromophenol blue 0.02 g/l > RS - For analysis****RS**

Code	Size	Packaging	Notes
PS0852/29	5 l	Plastic tank	

**Acetone-d6**

- Acetone-d6 • Acétone-d6 • Acetona-d6 • Aceton-d6

Synonym:  
*Hexadeuteroacetone*

CD<sub>3</sub>COCD<sub>3</sub>  
 Molecular Weight: 64,12  
 CAS: 666-52-4  
 EEC-N: 211-563-9

**Classification transport**

ONU: 1090  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H319-H336-HEU066  
 P210-P280-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P233

**Acetone-d6 > RS - For NMR - min 99.96%****RS**

Code	Size	Packaging	Notes
P5060	10 x 0.6 ml	Glass ampoule	

**For specifications, contact our customer service for a certificate of analysis**

**Acetone-d6 > RS - For NMR - min 99.8%****RS**

Code	Size	Packaging	Notes
P5049	10 x 0.75 ml	Glass ampoule	
P5044A	10 ml	Glass ampoule	
P5045	25 ml	Glass bottle	
P5046	100 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**



## Acetonitrile

• Acetonitrile • Acétonitrile • Acetonitrilo • Acetonitril

Synonym:  
Methyl cyanide

CH<sub>3</sub>CN  
Molecular Weight: 41,05  
CAS: 75-05-8  
EEC-N: 200-835-2

**Classification transport**  
ONU: 1648  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H312-H332-H319  
P210-P241-P280-P303+P361+P353-P304+P340-  
P305+P351+P338

### Acetonitrile > RS - For UHPLC-MS

RS

Description ..... Clear colourless liquid	Transmittance	Fluorescence (quinine)	Metals compounds
Colour ..... ≤ 5 APHA	At 191 nm ..... ≥ 40 %	At 365 nm ..... ≤ 0.5 ppb	Al ..... ≤ 20 ppb
Identification (I.R.) ..... Positive	At 195 nm ..... ≥ 80 %	At 450 nm ..... ≤ 0.5 ppb	Fe ..... ≤ 20 ppb
Refractive index at 20°C ..... 1.342 - 1.346	At 200 nm ..... ≥ 95 %	UHPLC gradient peak	Na ..... ≤ 50 ppb
Residue on evaporation ..... ≤ 1 ppm	At 215 nm ..... ≥ 97 %	At 210 nm ..... ≤ 0.4 MAU	Ca ..... ≤ 50 ppb
Acidity ..... ≤ 0.0003 meq/g	≥ 230 nm ..... ≥ 99 %	Drift at 210 nm ..... ≤ 6 MAU	Mg ..... ≤ 20 ppb
Alkalinity ..... ≤ 0.0002 meq/g	Absorbance	Drift at 254 nm ..... ≤ 2 MAU	K ..... ≤ 50 ppb
Assay (CPG) ..... ≥ 99.99 %	At 220 nm ..... ≤ 0.01 AU	Test LC-MS TIC (50-2000m/z) ES I(+)	
Water (K.F.) ..... ≤ 100 ppm	At 254 nm ..... ≤ 0.005 AU	Sensitive Impurities (reserpine) ..... ≤ 30 ppb	

Code	Size	Packaging	Notes
412041	1 l	Glass bottle	
412042	2.5 l	Glass bottle	

### Acetonitrile > RS - For LC/MS

RS

Description ..... Clear colourless liquid	Assay (GLC) ..... ≥ 99.95 %	At 254 nm ..... ≤ 1 ppb	Al ..... ≤ 50 ppb
Colour ..... ≤ 10 APHA	Transmission UV (1cm, ref water)	At 365 nm ..... ≤ 0.5 ppb	Fe ..... ≤ 50 ppb
Identification (I.R.) ..... Conform	At 195 nm ..... ≥ 80 %	HPLC gradient	Na ..... ≤ 50 ppb
Refractive index at 20°C ..... 1.342 ÷ 1.346	At 200 nm ..... ≥ 95 %	At 210 nm ..... ≤ 1 MAU	Ca ..... ≤ 50 ppb
Residue on evaporation ..... ≤ 2 ppm	At 220 nm ..... ≥ 98 %	Test LC-MS TIC (50-2000m/z) ESI (+)	Mg ..... ≤ 50 ppb
Acidity ..... ≤ 0.0005 meq/g	≥ 230 nm ..... ≥ 99 %	Sensitive Impurities (reserpine) ..... ≤ 50 ppb	K ..... ≤ 50 ppb
Alkalinity ..... ≤ 0.0002 meq/g	Fluorescence (quinine)	Metals compounds	Water (K.F.) ..... ≤ 100 ppm

Code	Size	Packaging	Notes
412341	1 l	Glass bottle	
412342	2.5 l	Glass bottle	

### Acetonitrile > RS - For HPLC - GOLD - Ultragradient grade

RS

Description ..... Clear liquid	Refractive index at 20°C ..... 1.342 ÷ 1.344	At 254 nm ..... ≤ 1 ppb	At 195 nm ..... ≥ 80 %
Colour (APHA) ..... ≤ 10	Distillation range ..... 80.5 ÷ 82.5 °C	At 365 nm ..... ≤ 0.5 ppb	At 228 nm ..... ≥ 99 %
Identification ..... Positive	Water (KF) ..... ≤ 100 ppm	At 450 nm ..... ≤ 0.5 ppb	From 230 to 420 nm ..... ≥ 99 %
Miscb. with Acetone ..... Conform	Residue on evaporation ..... ≤ 2 ppm	Absorbance	Functionality for HPLC
Water miscibility ..... Conform	Acidity ..... ≤ 0.0003 meq/g	At 190 nm ..... ≤ 0.6 AU	At 210 nm ..... ≤ 1 MAU
Miscibility in ether ..... Conform	Alcalinity ..... ≤ 0.0002 meq/g	At 200 nm ..... ≤ 0.03 AU	drift at 210 nm ..... ≤ 12 mA.U.
Miscibility in methanol ..... Conform	Assay (GLC) ..... ≥ 99.9 %	At 220 nm ..... ≤ 0.01 AU	HPLC Gradient ..... Passed test
Density at 20°C ..... 0.781 ÷ 0.785	Fluorescence (quinine)	Transmittance	UV cut off ..... ≤ 190 nm

Code	Size	Packaging	Notes
412371000	1 l	Glass bottle	
412372000	2.5 l	Glass bottle	
412374	4 l	Glass bottle	

### Acetonitrile > RS - For HPLC PLUS Gradient grade - ACS - Reag.Ph.Eur. - Reag.USA

RS

Description ..... Clear colourless liquid	Titration base ..... ≤ 0.0002 meq/g	at 365 nm ..... ≤ 0.5 ppb	From 240 to 420 nm ..... ≥ 98 %
Colour (APHA) ..... ≤ 10	Residue on evaporation ..... ≤ 0.0002 %	at 450 nm ..... ≤ 0.5 ppb	Absorbance
Identification ..... Positive	Water (K.F.) ..... ≤ 0.01 %	U.V. Transmittance	At 190 nm ..... ≤ 1.00 AU
Density at 20° C ..... 0.781 ÷ 0.785	Litmus paper test ..... Conform	at 195 nm ..... ≥ 79 %	Absorbance ACS ..... Pass test
Refractive index at 20°C ..... 1.3420 ÷ 1.3443	Assay (GLC) ..... ≥ 99.9 %	at 200 nm ..... ≥ 90 %	Gradient elution ACS ..... pass test
Distillation range 95% distils between 80 ÷ 82 °C	Fluorescence	at 210 nm ..... ≥ 95 %	Functionality for HPLC
Titration acid ..... ≤ 0.0008 meq/g	at 254 nm ..... ≤ 1 ppb	at 220 nm ..... ≥ 98 %	

Code	Size	Packaging	Notes
412393	1 l	Glass bottle PVC coated	
412391000	1 l	Glass bottle	
412392000	2.5 l	Glass bottle	
412395	5 l	Aluminium can	

**Acetonitrile > RS - For HPLC - Isocratic Grade****RS**

Description .....	Clear colourless liquid	Acidity or alkalinity.....	≤0.0008 meq/g	UV Transmittance	at 210 nm .....	≥92 %
Identification .....	Positive	Water (K.F.) .....	≤200 ppm	At 197 nm .....	at 220 nm .....	≥94 %
Density at 20 °C .....	0.781 ÷ 0.785	Residue on evaporation .....	≤2 ppm	UV transmittance at 240 nm .....	at 230 nm .....	≥98 %
Iodometric test .....	Conform	UV transmittance at 220 nm .....	≥ 94 %	at 200 nm .....	at 240 nm .....	≥99 %
Refractive index at 20°C .....	1.3420 ÷ 1.3440	Assay (GLC) .....	≥99.9 %	Free acid (as CH <sub>3</sub> COOH) ...	Fluorescence quinine 254 nm .....	≤ 1 ppb
Boiling point .....	81.1 ÷ 82.1 °C	UV transmittance at 230 nm .....	≥ 97 %	at 205 nm .....		

Code	Size	Packaging	Notes
412411000	1 l	Glass bottle	
412412000	2.5 l	Glass bottle	
412413000	4 l	Glass bottle	

**Acetonitrile > RS - For HPLC 230****RS**

Appearance .....	Clear colourless liquid	Boiling point.....	80.0 - 82.5 °C	Free acid (as CH <sub>3</sub> COOH).....	≤ 20 mg/Kg	UV transmittance at 250 nm .....	≥ 98 %
Refractive index at 20°C .....	1.342 - 1.346	Colour .....	≤ 10 Hazen	Assay (GC) .....	≥ 99.9 %		
Density d <sub>20</sub> /20 .....	0.780 - 0.785	Non volatile residue .....	≤ 5 mg/Kg	UV transmittance at 230 nm .....	≥ 80 %		

Code	Size	Packaging	Notes
P00637S16	1 l	Glass bottle	
P00637S21	2.5 l	Glass bottle	

**Acetonitrile > RS - For preparative HPLC****RS**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3420 ÷ 1.3440	Residue on evaporation .....	≤5 ppm	at 250 nm .....	≥98 %
Identification .....	Positive	Boiling point.....	81.1 ÷ 82.1 °C	Assay (GLC) .....	≥99.9 %		
Colour .....	≤10 APHA	Acidity or alkalinity.....	≤0.0008 meq/g	U.V. Transmittance			
Density at 20 °C .....	0.781 ÷ 0.785	Water (K.F.) .....	≤300 ppm	at 230 nm .....	≥50 %		

Code	Size	Packaging	Notes
412409	2.5 l	Glass bottle	
412407	23 l	Metal drum	

**Acetonitrile > RS - PESTIPUR - For pesticide analysis****RS**

Description .....	Clear liquid	Identification .....	Positive	Acidity (acetic acid).....	≤ 20 ppm	GC-ECD (Lindano) .....	≤ 3 ng/l
Colour .....	≤ 10 hazen	Water .....	≤ 0.03 %	Not volatile residue .....	≤ 5 ppm	Assay (GLC) .....	≥ 99.9 %

Code	Size	Packaging	Notes
401241	1 l	Glass bottle	
401242	2.5 l	Glass bottle	
401243	4 l	Glass bottle	

**Acetonitrile > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.****RS**

Description .....	Clear colourless liquid	Acidity or alkalinity.....	≤0.0008 meq/g	at 254 nm .....	≤1 ppb	Colour .....	≤ 10 APHA
Density at 20 °C .....	0.781 ÷ 0.785	Water (K.F.) .....	≤300 ppm	U.V. Transmittance		at 230 nm .....	≥98 %
Refractive index at 20°C .....	1.3410 ÷ 1.3450	Residue on evaporation .....	≤5 ppm	at 200 nm .....	≥90 %	Identification .....	Positive
Litmus paper test .....	Conform	Assay (GLC) .....	≥99.9 %	at 210 nm .....	≥94 %	UV Absorbance from 255 nm to 420 nm..	≤ 0.01 AU
Distillation range 95% distils between .....	80 - 82 °C	Fluorescence		at 220 nm .....	≥96 %		

Code	Size	Packaging	Notes
401216	1 l	Glass bottle	
401212	2.5 l	Glass bottle	

## Acetonitrile > RS - Anhydrous - For analysis

**RS**

Appearance .....	Clear colourless liquid	Water content (K.F.) .....	≤ 100 mg/Kg	Free acid (as CH <sub>3</sub> COOH) .....	≤ 20 mg/Kg	Free alkali .....	≤ 0.0003 meq/g
Refractive index at 20°C .....	1.342 - 1.346	Non volatile residue .....	≤ 10 mg/Kg	Density d20/20 .....	0.780 - 0.785	Propionitrile .....	≤ 300 mg/Kg
Identification (IR) .....	Conform	Colour .....	≤ 10 Hazen	Iron (Fe) .....	≤ 0.5 mg/Kg		
Boiling point .....	80.0 - 82.5 °C	Assay (GC) .....	≥ 99.9 %	Copper (Cu) .....	≤ 0.5 mg/Kg		

Code	Size	Packaging	Notes
P0061010	200 ml	Bottle with septum	
P00610S10	200 ml	Bottle with septum	Water content < 50 ppm
P00610T10	200 ml	Bottle with septum	On molecular sieves 3A
P0061016	1 l	Glass bottle	
P00610S16	1 l	Glass bottle	Water content < 50 ppm
P0061021	2.5 l	Glass bottle	
P00610S21	2.5 l	Glass bottle	Water content < 50 ppm

## Acetonitrile > RS - For peptide synthesis

**RS**

Appearance .....	Clear colourless liquid	Density d20/20 .....	0.780 - 0.785	Water content (K.F.) .....	≤ 30 mg/Kg	Assay (GC) .....	≥ 99.9 %
Refractive index at 20°C .....	1.342 - 1.346	Boiling point .....	80.0 - 82.5 °C	Colour .....	≤ 10 Hazen	Non volatile residue .....	≤ 5 mg/Kg

Code	Size	Packaging	Notes
P0063510	200 ml	Bottle with septum	
P0063516	1 l	Glass bottle	
P0063521	2.5 l	Glass bottle	

## Acetonitrile > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 500 ppm	K .....	≤ 0.05 ppm	Assay (GLC) .....	≥ 99.8 %
Identification .....	Positive	Residue on evaporation .....	≤ 10 ppm	Mg .....	≤ 0.05 ppm	Colour (APHA) .....	≤ 10
Density at 20° C .....	0.781 ÷ 0.785	Ca .....	≤ 0.2 ppm	Na .....	≤ 1 ppm	Acidity .....	≤ 8 µeq/g
Refractive index at 20°C .....	1.3410 ÷ 1.3450	Cu .....	≤ 0.05 ppm	Pb .....	≤ 0.05 ppm	Alcalinity .....	≤ 0.6 µeq/g
Distillation range 95% distils between .....	80 - 82 °C	Fe .....	≤ 0.2 ppm	Zn .....	≤ 0.5 ppm	Litmus paper test .....	Conform

Code	Size	Packaging	Notes
401183000	1 l	Glass bottle	
401185000	2.5 l	Glass bottle	

## Acetonitrile > RE - Pure

**RE**

Appearance .....	Clear colourless liquid	Colour .....	Colourless	Water content (K.F.) .....	≤ 500 mg/Kg	Assay (GC) .....	≥ 99.9 %
Refractive index at 20°C .....	1.342 - 1.346	Density d20/20 .....	0.780 - 0.785	Free acid (as CH <sub>3</sub> COOH) .....	≤ 20 mg/Kg		
Identification (IR) .....	Conform	Boiling point .....	80.0 - 82.5 °C	Non volatile residue .....	≤ 20 mg/Kg		

Code	Size	Packaging	Notes
P0060228	5 l	Plastic tank	
P0060248	25 l	Metal drum	
P0060268	200 l	Metal drum	

**Acetonitrile + 0.1% v/v formic acid**

- Acetonitrile + 0.1% v/v acido formico • Acétonitrile + 0.1% v/v d'acide formique • Acetonitrilo+ 0.1% v/v acido formico
- Acetonitril + 0,1% v/v Ameisensäure

CH<sub>3</sub>CN  
Molecular Weight: 41,05  
CAS: 75-05-8

**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H332-H319  
P210-P241-P280-P303+P361+P353-P304+P340-P305+P351+P338

**Acetonitrile + 0.1% v/v formic acid > RS - For LC/MS****RS**

Description .....	Clear colourless liquid	At 210 nm .....	≥ 5 %	Al .....	≤ 0.5 ppm	Raw material used
Colour .....	≤ 10 APHA	At 230 nm .....	≥ 15 %	Fe .....	≤ 0.5 ppm	Acetonitrile LC-MS(code 412342) ..... Batch number
Acidity (formic acid) .....	0.095 ÷ 0.105 %	Assay (CPG) .....	≥ 99.5 %	Ca .....	≤ 0.5 ppm	Formic acid 98-99% (code 405820) . Batch number
HPLC Gradient		Test LC-MS TIC (100-2000m/z)		Mg .....	≤ 0.5 ppm	
At 254 nm .....	≤ 50 mAU	Sensitive Impurities (reserpine).....	≤ 50 ppb	Na .....	≤ 2 ppm	
Transmittance		Metals content		K .....	≤ 0.5 ppm	

Code	Size	Packaging	Notes
412331	1 l	Glass bottle	
412332	2.5 l	Glass bottle	

**Acetonitrile + 0.1% v/v trifluoroacetic acid**

- Acetonitrile + 0.1% v/v acido trifluoroacetico • Acétonitrile + 0.1% v/v d'acide trifluoroacétique • Acetonitrilo+ 0.1% v/v acido trifluoroacético
- Acetonitril + 0.1% v/v trifluoressigsäure

CH<sub>3</sub>CN  
Molecular Weight: 41,05  
CAS: 75-05-8

**Classification transport**  
ONU: 1648  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H332-H319  
P210-P241-P280-P303+P361+P353-P304+P340-P305+P351+P338

**Acetonitrile + 0.1% v/v trifluoroacetic acid > RS - For LC/MS****RS**

Description .....	Clear colourless liquid	UV transmittance (1 cm, ref. water)	At 365 nm .....	≤ 0.5 ppb	Al .....	≤ 30 ppb
Assay (GC) (without TFA) .....	≥ 99.9 %	At 195 nm .....	≥ 20 %	HPLC gradient	Fe .....	≤ 50 ppb
Trifluoroacetic acid content 0.095 - 0.105 % (V/V)		At 230 nm .....	≥ 50 %	Drift at 254 nm .....	≤ 30 mAU	Na .....
Water (K.F.) .....	≤ 150 ppm	At 254 nm .....	≥ 90 %	Test LC-MS TIC (50-2000m/z) ES I(+)		Ca .....
Residue on evaporation .....	≤ 2 ppm	At 260 nm .....	≥ 95 %	Sensitive Impurities (reserpine).....	≤ 50 ppb	Mg .....
		Fluorescence (quinine)		Metals compounds		K .....

Code	Size	Packaging	Notes
412321	1 l	Glass bottle	
412322	2.5 l	Glass bottle	

**Acetonitrile-d3**

- Acetonitrile-d3 • Acétonitrile-d3 • Acetonitrilo-d3 • Acetonitril-d3

Synonym:  
*Trideuteroacetonitrile*

CD<sub>3</sub>CN  
Molecular Weight: 44,07  
CAS: 2206-26-0  
EEC-N: 218-616-5

**Classification transport**  
ONU: 1648  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H312-H332-H319  
P210-P241-P280-P303+P361+P353-P304+P340-P305+P351+P338

**Acetonitrile-d3 > RS - For NMR - min 99.8%****RS**

Code	Size	Packaging	Notes
P5070	2 x 0.6 ml	Glass ampoule	
P5079	10 x 0.75 ml	Glass ampoule	
P5073A	5 ml	Glass ampoule	

**For specifications, contact our customer service for a certificate of analysis**



**Acetophenone**  
 • Acetofenone • Acétophénone • Acetofenona • Acetophenon

Synonym:  
*Methyl phenyl ketone*

$C_6H_5COCH_3$   
 Molecular Weight: 120,15  
 CAS: 98-86-2  
 EEC-N: 202-708-7

**Warning**  
 H302-H319  
 P264-P280i-P301+P312a-P305+P351+P338-  
 P337+P313-P501a

### Acetophenone > RE - Pure

RE

Description ..... Clear, colourless to pale yellow    Density at 20° C ..... 1.018 ÷ 1.038    Boiling point ..... 200.5 ÷ 203.5 ° C  
 Identification ..... Positive    Refractive index at 20°C ..... 1.5283 ÷ 1.5383    Assay (GLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
301251	1 l	Glass bottle	

**Acetylacetone**  
 • Acetilacetone • Acétylacétone • Acetilacetona • Acetylaceton

Synonym:  
 • 2,4-Pentanedione  
 • Diacetylmethane

$CH_3COCH_2COCH_3$   
 Molecular Weight: 100,12  
 CAS: 123-54-6  
 EEC-N: 204-634-0

**Classification transport**  
 ONU: 2310  
 Transport Hazard class: 3  
 Packing group III

**Danger**  
 H226-H302-H311-H331  
 P210-P280-P303+P361+P353-P304+P340-P311a-  
 P330-P361+P364-P403+P233

### Acetylacetone > RPE - For analysis

RPE

Description ..... Clear liquid    Water miscibility ..... Conform    Refractive index at 20°C. 1.4510 ÷ 1.4540    Residue on evaporation ..... ≤100 ppm  
 Identification (I.R.) ..... Conform    Density at 20° C ..... 0.971 ÷ 0.981    Water (K.F.) ..... ≤0.1 %    Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
400305	100 ml	Glass bottle	
400307	1 l	Glass bottle	

**n-Acetyl-L-cysteine**  
 • n-Acetil-L-cisteina • n-Acétyl-L-cystéine • n-Acetil-L-cisteina • n-Acetyl-L-cystein

Synonym:  
*LNAC*

$HSCH_2CH(NHCOCH_3)COOH$   
 Molecular Weight: 163,19  
 CAS: 616-91-1  
 EEC-N: 210-498-3

### n-Acetyl-L-cysteine > RPE - For analysis

RPE

Description ..... White crystals    Identification ..... Positive    Ash ..... < 0.5 %    Assay (acidimetric) ..... > 97.5 %

Code	Size	Packaging	Notes
400522	100 g	Glass bottle	

**p-Acetylphenetidine**  
 • p-Acetilfenetidina • p-Acétylphénétidine • p-Acetilfenetidina • Phenacetin

Synonym:  
 • Phenacetin  
 • Acetophenelide

$C_2H_5OC_6H_4NHCOCH_3$   
 Molecular Weight: 179,22  
 CAS: 62-44-2  
 EEC-N: 200-533-0

**Warning**  
 H302-H312-H332  
 P261-P264-P271-P280h-P301+P312a-P304+P340

### p-Acetylphenetidine > RE - Pure

RE

Description ..... White crystalline powder    Identification ..... Positive    Melting point ..... 133 ÷ 138 ° C    Assay (HPLC) ..... > 96.0 %

Code	Size	Packaging	Notes
300857	1 kg	Plastic bottle	

## Acid Red 51 ▶ Erythrosin extra B

Acid Red 87 ▶ Eosin Y

Acid Red 91 ▶ Eosin B

Acid Violet 19 ▶ Fuchsin acid

ACN ▶ Acetonitrile



## Acridine orange

• Arancio acridina • Orange acridine • Anaranjado de acridina • Acridinorange

Synonym:

3,6-Bis(dimethylamino)acridine hydrochloride

$C_{17}H_{20}ClN_3$

Molecular Weight: 301,82

CAS: 65-61-2

EEC-N: 200-614-0

### Acridine orange > RS - For microscopy - C.I. 46005

RS

Description ..... Orange powder Identification ..... Positive

Code	Size	Packaging	Notes
423461	25 g	Plastic bottle	



## ADF Solution

• Soluzione ADF • Solution ADF • Solución ADF • ADF Lösung

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group III



### Warning

H315-H319-H412

P264-P280a-P305+P351+P338-P332+P313-

P362+P364-P337+P313

### ADF Solution > RPE - For analysis

RPE

Density at 20°C ..... 1.020 ÷ 1.040

Code	Size	Packaging	Notes
526625	2.5 l	Plastic bottle	
526623	10 l	Plastic tank	

**Composition: Trimethylcethylammonium bromure: 20 g Sulfuric acid 1N: QSP 1 L according to NF V18-122**



## Adipic acid

• Acido adipico • Acide adipique • Acido adipico • Adipinsäure

Synonym:

Hexanedioic acid

$HOOC(CH_2)_4COOH$

Molecular Weight: 146,14

CAS: 124-04-9

EEC-N: 204-673-3



### Warning

H319

P264-P280i-P305+P351+P338-P337+P313

### Adipic acid > RPE - For analysis

RPE

Description ..... White crystalline powder Solution colour ..... ≤ 5 APHA Water ..... ≤ 0.2 % HNO<sub>3</sub> ..... ≤ 4 ppm  
 Identification ..... Positive Melting point ..... 151 ÷ 153 °C Residue on ignition ..... ≤ 0.0002 % Assay (acidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
401785	250 g	Plastic bottle	



## β-Alanine

• β-Alanina • β-Alanine • β-Alanina • β-Alanin

Synonym:  
3-Aminopropionic acid

$\text{NH}_2\text{CH}_2\text{CH}_2\text{COOH}$   
Molecular Weight: 89,09  
CAS: 107-95-9  
EEC-N: 203-536-5

### β-Alanine > RPE - For analysis

RPE

Description ..... White crystalline powder    Ammonium ..... ≤ 1000 ppm    Residue on ignition ..... ≤ 0.2 %    Assay (non-aqueous medium) ..... ≥ 98.5 %  
Identification ..... Positive    Chloride ..... ≤ 400 ppm    Sulphate ..... ≤ 480 ppm  
Loss on drying ..... ≤ 0.5 %    Heavy metals (Pb) ..... ≤ 10 ppm    Fe ..... ≤ 30 ppm

Code	Size	Packaging	Notes
413603	50 g	Glass bottle	



## Albumin from eggs powder

• Albumina d'uovo polvere • Albumine d'oeuf poudre • Albúmina de huevo polvo • Albumin aus Eipulver

CAS: 9006-59-1  
EEC-N: 232-692-7

### Albumin from eggs powder > RE - Pure

RE

Description ..... White powder yellowish    Identification ..... Positive    pH ..... 6.0 ÷ 8.0    Water (K.F.) ..... ≤ 8.0 %

Code	Size	Packaging	Notes
413671	1 kg	Plastic bottle	
413672	5 kg	Plastic bottle	



## Albumin from eggs, dried

• Albumina d'uovo secca • Albumine d'oeuf sèche • Albúmina de huevo desecada • Eiweiß aus Eiern, getrocknet

CAS: 9006-59-1  
EEC-N: 232-692-7

### Albumin from eggs, dried > RS - For biochemistry

RS

Description ..... White powder yellowish    Identification ..... Positive

Code	Size	Packaging	Notes
413654	100 g	Plastic bottle	
413656	500 g	Plastic bottle	



## Alcian Blue 8GS 1%

• Blu alcian 8GS 1% • Bleu alcian 8GS 1% • Azul de alcian 8GS 1% • Alcianblau 8GS 1%

Synonym:  
Ingrain Blue 1

$\text{C}_{56}\text{H}_{68}\text{N}_{16}\text{CuS}_4\text{Cl}_4$     HEU210  
Molecular Weight: 1298,88  
CAS: 75881-23-1

### Alcian Blue 8GS 1% > RS - For microscopy

RS

Description ..... Blue clear liquid    672 - 680 nm    005g/L ..... 0.35 - 0.55  
Maximum lambda absorption max (DMSO).    Absorbance(Lambda max;DMSO;dil.0.    pH at 20°C ..... 2.4 - 2.6

Code	Size	Packaging	Notes
428551	250 ml	Glass bottle	

**Alcian blue 8GX**

• Blu alcian 8GX • Bleu alcian 8GX • Azul de alcian 8GX • Alcianblau 8GX

Synonym:  
Ingrain Blue 1

$C_{56}H_{68}N_{16}CuS_4Cl_4$   
Molecular Weight: 1298,88  
CAS: 33864-99-2  
EEC-N: 251-705-7

**Alcian blue 8GX > RS - For microscopy - C.I. 74240**

RS

Description ..... Violet crystalline powder Identification ..... Positive

Code	Size	Packaging	Notes
428561	25 g	Glass bottle	

**Dye for histochemistry****Alizarin**

• Alizarina • Alizarine • Alizarina • Alizarin

Synonym:  
• 1,2-Dihydroxyanthraquinone  
• Mordant Red 11

$C_{14}H_8O_4$   
Molecular Weight: 240,21  
CAS: 72-48-0  
EEC-N: 200-782-5

**Warning**H302  
P264-P270-P301+P312a-P330-P501a**Alizarin > RPE - For analysis - C.I. 58000**

RPE

Description ..... Orange red powder Loss on drying ..... ≤2 % Assay ..... ≥96.0 %  
Identification ..... Positive Aluminium sensitivity ..... ≥0.1 µg/ml

Code	Size	Packaging	Notes
415892	25 g	Glass bottle	

**Dye for microscopy. Indicator acid - base (pH 5.8 to 7.2 - 11.0 to 13.0)****Alizarin red**

• Rosso alizarina • Rouge Alizarine • Rojo Alizarina • Alizarinrot S

Synonym:  
• Alizarin sulfonic acid sodium salt  
• 3,4-Dihydroxy-9,10-dioxo-2-anthracenesulfonic acid sodium salt

$C_{14}H_7NaO_7S$   
Molecular Weight: 342,26  
CAS: 130-22-3  
EEC-N: 204-981-8

**Alizarin red > RPE - For analysis - C.I. 58005**

RPE

Description ..... Brown orange powder Identification ..... Positive Colour change ..... yellow violet pH range ..... 5.0 - 6.6

Code	Size	Packaging	Notes
416002	25 g	Glass bottle	

**Alizarin saturated solution in ethanol**• Alizarina soluzione satura in alcole etilico • Alizarine solution saturée dans l'éthanol  
• Alizarina solución saturada en alcohol etílico • Alizarin gesättigte Lösung in EthanolSynonym:  
• 1,2-Dihydroxyanthraquinone  
• Mordant Red 11

$C_{14}H_8O_4$   
Molecular Weight: 240,21  
CAS: 72-48-0

**Classification transport**ONU: 1170  
Transport Hazard class: 3  
Packing group II**Danger**H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313**Alizarin saturated solution in ethanol > RPE - For analysis**

RPE

Description ..... Orange brown liquid Identification ..... Positive

Code	Size	Packaging	Notes
E415932	250 ml	Bottle	

**Indicator acid - base. Indicator for absorption and complexometry. Saturated alcoholic solution**

**Alizarin yellow R**

• Giallo alizarina R • Jaune d'alizarine R • Amarillo de alizarina R • Alizaringelb R

Synonym:

- Mordant Orange 1
- 5-(4-Nitrophenylazo)salicylic acid

$C_{13}H_9N_3O_5$   
Molecular Weight: 287,23  
CAS: 2243-76-7  
EEC-N: 218-818-3

**Warning**

H302-H319  
P264-P280i-P301+P312a-P305+P351+P338-  
P337+P313-P501a

**Alizarin yellow R > RPE - For analysis - C.I. 14030****RPE**

Description ..... Brown crystalline powder    Loss on drying ..... ≤15 %    Colour change ..... yellow-orange  
Identification ..... Positive    Residue on ignition ..... 18.0 ÷ 28.0 %    E (1% ÷ 1 cm) a 492 nm ..... 700 ÷ 1000

Code	Size	Packaging	Notes
453451	10 g	Glass bottle	

**Alkali blue 6B**

• Blu alcali 6B • Bleu alcalin 6B • Azul de alcali 6B • Alkaliblau 6B

Synonym:

Acid blue 10

$C_{37}H_{29}N_3O_3S$   
Molecular Weight: 595,72  
CAS: 1324-76-1  
EEC-N: 215-385-2

**Alkali blue 6B > RS - For microscopy - C.I. 42765****RS**

Description ..... Brown violet powder    Identification ..... Positive

Code	Size	Packaging	Notes
428532	25 g	Glass bottle	

**Dye for cytology****Alkali Blue 6B solution 2% in ethanol**

• Blu alcali 6B soluzione 2% in alcol etilico • Bleu alcalin 6B solution 2% dans l'éthanol  
• Azul de alcali 6B solución 2% en alcohol etílico • Alkaliblaue 6B 2% ige Lösung in Ethanol

Synonym:

Acid blue 10

$C_{32}H_{28}N_3NaO_4S$   
Molecular Weight: 613,72  
CAS: 1324-76-1

**Classification transport**

ONU: 1170  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

**Alkali Blue 6B solution 2% in ethanol > RPE - For analysis****RPE**

Description ..... Blue liquid    Identification ..... Positive

Code	Size	Packaging	Notes
E428541	250 ml	Bottle	

**Alkylbenzyltrimethylammonium chloride ▶ Benzalkonium chloride****Allylthiourea**

• Allitiourea • Allylthiourée • Allitiourea • Allylthioharnstoff

Synonym:

- 1-Allyl-2-thiourea
- Thiosinamine

$CH_2=CHCH_2NHCSNH_2$   
Molecular Weight: 116,19  
CAS: 109-57-9  
EEC-N: 203-683-5

**Classification transport**

ONU: 2811  
Transport Hazard class: 6.1  
Packing group III

**Danger**

H301  
P264-P270-P301+P310a-P330-P405-P501a

**Allylthiourea > RPE - For analysis****RPE**

Description ..... White crystalline powder    Melting point ..... 70 ÷ 78 ° C    Assay (ex nitrogen) ..... 97.5 ÷ 102.5 %  
Identification ..... Positive    Perdita essiccamento (50°C) ..... ≤ 1.5 %

Code	Size	Packaging	Notes
416281	25 g	Glass bottle	
416283	100 g	Glass bottle	



## Almond oil ▶ Oil refined of almonds

## Alumina ▶ Aluminum hydroxide

**Alumina white**

• Allumina bianca • Alumine blanche • Alúmina blanca • Weißes Aluminiumoxid

Synonym:  
Alumina

Molecular Weight: 101,96

CAS: 1344-28-1

EEC-N: 215-691-6

**Alumina white > RS - For metallography (Medium metals)**

RS

Description ..... White suspension Identification ..... Positive

Code	Size	Packaging	Notes
416531	120 g	Plastic bottle	

**Aluminum, powder**

• Alluminio, polvere • Aluminium, poudre • Aluminio, polvo • Aluminium, pulver

Al

Molecular Weight: 26,98

CAS: 7429-90-5

EEC-N: 231-072-3

**Classification transport**

ONU: 1396

Transport Hazard class: 4.3

Packing group II

**Danger**

H250-H261

P210-P222-P223-P231a+P232-P280-P402+P404

**Aluminum, powder > RPE - For analysis**

RPE

Description ..... Grey powder Cu..... ≤ 0.03 % Zn..... ≤ 0.08 %  
Identification ..... Positive Fe..... ≤ 0.6 % Assay (complexometric)..... ≥ 95 %

Code	Size	Packaging	Notes
416817	1 kg	Metallic can	
416815	25 kg	Plastic bucket	

**Aluminum standard solution**

• Alluminio standard soluzione • Aluminium standard solution • Aluminum, solución patrón • Aluminium-Standardlösung

**Classification transport**

ONU: 3264

Transport Hazard class: 8

Packing group II

**Danger**

H290-H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Aluminum standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615000200	100 ml	Plastic bottle	A 200 ppm solution Ref Ph.Eur 5000200
615000201	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5000201
615000202	100 ml	Plastic bottle	A 2 ppm solution: to dilute according to Ref Ph.Eur 5000202
615000203	100 ml	Plastic bottle	A 100 ppm solution: to dilute according to Ref Ph.Eur 5000203

**Aluminum standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505307	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505308	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505309	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Aluminum standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503411	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503413	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503415	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
503417	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Aluminum standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
504190	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504186	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497405	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497401	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Aluminum standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
416581		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Aluminum ammonium sulfate dodecahydrate

- Alluminio ammonio solfato dodecaidrato • Aluminium ammonium sulfate dodécahydraté
- Aluminio y amonio sulfato dodecahidrato • Aluminiumammoniumsulfat-Dodecahydrat

Synonym:

- Ammonium alum
- Ammonium aluminum sulfate dodecahydrate

$\text{AlNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$   
Molecular Weight: 453,34  
CAS: 7784-26-1



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

## Aluminum ammonium sulfate dodecahydrate > RPE - For analysis

RPE

Description ..... White crystals Identification ..... Positive Assay (complexometric) ..... ≥ 98.5 % Loss on drying (300°C)..... 45 ÷ 48 %

Code	Size	Packaging	Notes
416895	500 g	Plastic bottle	
416897	1 kg	Plastic bottle	
416892	25 kg	Plastic bucket	

## Aluminum ammonium sulfate dodecahydrate > RE - Pure

RE

Description ..... White semitransparent crystals Chloride..... ≤50 ppm Heavy metals (Pb)..... ≤100 ppm Assay (complexometric) ..... ≥97 %  
Identification ..... Positive Water-insoluble matter ..... ≤500 ppm Fe ..... ≤30 ppm

Code	Size	Packaging	Notes
311009	5 kg	Plastic tank	
311002	25 kg	Plastic bucket	



## Aluminum chloride anhydrous

• Alluminio cloruro anidro • Aluminium chlorure anhydre • Aluminio cloruro anhidro • Aluminiumchlorid. wasserfrei

AlCl<sub>3</sub>  
Molecular Weight: 133,34  
CAS: 7446-70-0  
EEC-N: 231-208-1

**Classification transport**  
ONU: 1726  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Aluminum chloride anhydrous > RE - Pure

RE

Description ... Yellow grey crystalline powder    Identification ..... Positive    Fe ..... ≤ 100 ppm    Assay (complexometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
416996	500 g	Glass bottle	



## Aluminum chloride hexahydrate

• Alluminio cloruro esadrato • Aluminium chlorure hexahydraté • Aluminio cloruro hexahidrato • Aluminiumchlorid-Hexahydrat

AlCl<sub>3</sub>·6H<sub>2</sub>O  
Molecular Weight: 241,44  
CAS: 7784-13-6  
EEC-N: 231-208-1



**Warning**  
H302-H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Aluminum chloride hexahydrate > RPE - For analysis - Reag. Ph. Eur.

RPE

Description ..... white or slightly yellow, crystalline powder  
..... or colourless crystals, deliquescent.  
Identification ..... Positive  
pH sol. 5% at 25° C ..... 2.5 ÷ 3.5

Sulphate ..... ≤ 50 ppm  
Cd ..... ≤ 50 ppm  
Cu ..... ≤ 50 ppm  
Fe ..... ≤ 50 ppm

Zn ..... ≤ 50 ppm  
Assay (complexometric) ..... ≥ 99 %  
Ca ..... ≤ 100 ppm  
Co ..... ≤ 50 ppm

K ..... ≤ 100 ppm  
Na ..... ≤ 0.05 %  
Ni ..... ≤ 50 ppm  
Pb ..... ≤ 50 ppm

Code	Size	Packaging	Notes
416942	100 g	Plastic bottle	
416943	500 g	Plastic bottle	
416947	1 kg	Plastic bottle	
416949	5 kg	Plastic tank	
416945	25 kg	Plastic bucket	

### Aluminum chloride hexahydrate > ERBApharm - According to pharmacopeia: Ph.Eur.-USP

ERBApharm

Description ..... white or slightly yellow, crystalline powder  
Identification A ..... Positive

Identification B ..... Positive  
Appearance of solution ..... Conform Ph. Eur.  
Water (K.F) ..... 42.0 ÷ 48.0 %

Alkali and alkaline-earth metals ..... ≤ 0.5 %  
Sulfate ..... ≤ 100 ppm  
Heavy metals (Pb) ..... ≤ 20 ppm

Fe ..... ≤ 10 ppm  
Assay (complexometry) ..... 95.0 - 101.0 %

Code	Size	Packaging	Notes
311257	1 kg	Plastic bottle	
311252	5 kg	Plastic tank	
311256	25 kg	Plastic bucket	
311254	50 kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Aluminum hydroxide

• Alluminio idrossido • Aluminium hydroxyde • Aluminio hidróxido • Aluminiumhydroxid

Al(OH)<sub>3</sub>  
Molecular Weight: 78  
CAS: 21645-51-2  
EEC-N: 244-492-7



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Aluminum hydroxide > RPE - For analysis

RPE

Description ..... White powder      Loss on ignition ..... ≤ 36.5 %      Soluble matter in water ..... ≤ 0.2 %  
Identification (I.R.) ..... Positive      pH sol. 5% ..... 8.5 - 10.0      Assay (Al2O3) ..... ≥ 63.5 %

Code	Size	Packaging	Notes
417046	500 g	Plastic bottle	
417047	1 kg	Plastic bottle	

### Aluminum hydroxide > RE - Pure

RE

Description ..... White powder      Identification (I.R.) ..... Positive      Assay (Al2O3) ..... ≥ 60 %

Code	Size	Packaging	Notes
311734	1 kg	Plastic bottle	



## Aluminum nitrate nonahydrate

• Alluminio nitrato nonaidrato • Aluminium nitrate nonahydraté • Aluminio nitrato nonahydrate • Aluminiumnitrat-Nonahydrat

Al(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O  
Molecular Weight: 375,13  
CAS: 7784-27-2  
EEC-N: 236-751-8

### Classification transport

ONU: 1438  
Transport Hazard class: 5.1  
Packing group III



### Danger

H272-H315-H319  
P210-P280-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Aluminum nitrate nonahydrate > RPE - For analysis

RPE

Description ..... Semitransparent crystals      pH sol. 5% at 20°C ..... 2.5 ÷ 3.5      Sulphate ..... ≤ 50 ppm      Assay ..... ≥ 99 %  
Identification ..... Positive      Chloride ..... ≤ 20 ppm      Fe ..... ≤ 50 ppm

Code	Size	Packaging	Notes
417095	100 g	Plastic bottle	
417096	500 g	Plastic bottle	
417097	1 kg	Plastic bottle	

### Aluminum nitrate nonahydrate > RE - Pure

RE

Description ..... Cristalli trasparenti      Identification ..... Positive      Assay (complexometric) ..... ≥ 98 %

Code	Size	Packaging	Notes
312007	1 kg	Plastic bottle	
312008	5 kg	Plastic tank	
312001	25 kg	Plastic bucket	



## Aluminum oxide

• Alluminio ossido • Aluminium oxyde • Aluminio óxido • Aluminiumoxid

Synonym:  
Alumina

$Al_2O_3$   
Molecular Weight: 101,96  
CAS: 1344-28-1  
EEC-N: 215-691-6

### Aluminum oxide > RPE - For analysis - Reag. Ph. Eur.

RPE

Description ..... White powder      Heavy metals (as Pb) ..... ≤ 0.005 %      Assay (complexometry) ..... ≥ 98 %      Silicate (as SiO<sub>2</sub>) ..... ≤ 0.1 %  
Identification ..... Positive      Sulfate ..... ≤ 0.05 %      Loss on ignition ..... ≤ 0.5 %  
Chloride ..... ≤ 0.005 %      Fe ..... ≤ 0.03 %      Alkalis (as Na<sub>2</sub>O) ..... ≤ 0.2 %

Code	Size	Packaging	Notes
417144	100 g	Plastic bottle	
417145	250 g	Plastic bottle	
417146	500 g	Plastic bottle	
417147	1 kg	Plastic bottle	

### Aluminum oxide > RE - Pure

RE

Description ..... White powder      Fe<sub>2</sub>O<sub>3</sub> ..... ≤ 250 ppm      Si ..... ≤ 400 ppm  
Identification ..... Positive      Na<sub>2</sub>O ..... ≤ 0.25 %      Assay (complexometric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
312258	2.5 kg	Plastic bucket	
312259	5 kg	Plastic tank	
312252	25 kg	Plastic bucket	



## Aluminum oxide (acid)

• Alluminio ossido (acido) • Aluminium oxyde (acide) • Aluminio óxido (ácido) • Aluminiumoxid (Säure)

Synonym:  
Alumina

$Al_2O_3$   
Molecular Weight: 101,96  
CAS: 1344-28-1  
EEC-N: 215-691-6

### Aluminum oxide (acid) > RS - For chromatography according to Brockmann

RS

Description ..... White crystalline powder      Identification ..... Positive      Activity grade 1 ..... Conform

Code	Size	Packaging	Notes
417185	250 g	Plastic bottle	
417182	1 kg	Plastic bottle	



## Aluminum oxide (basic)

• Alluminio ossido (basico) • Aluminium oxyde (basique) • Aluminio óxido (básico) • Aluminiumoxid (basisch)

Synonym:  
Alumina

$Al_2O_3$   
Molecular Weight: 101,96  
CAS: 1344-28-1  
EEC-N: 215-691-6

### Aluminum oxide (basic) > RS - For chromatography according to Brockmann

RS

Description ..... White granular powder      Identification ..... Positive      Activity grade 1 ..... Conform

Code	Size	Packaging	Notes
417214	100 g	Plastic bottle	
417217	1 kg	Plastic bottle	





## Aluminum oxide (neutral)

• Alluminio ossido (neutro) • Aluminium oxyde (neutre) • Aluminio óxido (neutro) • Aluminiumoxid (neutral)

Synonym:  
Alumina

$Al_2O_3$   
Molecular Weight: 101,96  
CAS: 1344-28-1  
EEC-N: 215-691-6

### Aluminum oxide (neutral) > RS - For chromatography according to Brockmann

RS

Description ..... White granular powder    Activity grade 1 ..... Conform    Fe2O3 ..... ≤ 0.03 %    Na2O ..... ≤ 0.4 %  
Identification ..... Positive    pH suspension 10% H2O ..... 6.5 ÷ 7.5    SiO2 ..... ≤ 0.03 %

Code	Size	Packaging	Notes
417245	250 g	Plastic bottle	
417241	1 kg	Plastic bottle	



## Aluminum oxide activated

• Alluminio ossido attivo • Aluminium oxyde actif • Aluminio óxido activo • Aluminiumoxid aktiviert

Synonym:  
Alumina

$Al_2O_3$   
Molecular Weight: 101,96  
CAS: 1344-28-1  
EEC-N: 215-691-6

### Aluminum oxide activated > RE - Pure

RE

Description ..... Whitish granules    Identification ..... Positive    Diameter ..... 0.1 ÷ 0.5 mm

Code	Size	Packaging	Notes
312261	1 kg	Plastic bottle	



## Aluminum potassium sulfate dodecahydrate

• Alluminio potassio solfato dodecaidrato • Aluminium potassium sulfate dodécahydraté  
• Aluminio y potasio sulfato dodecahidrato • Aluminiumkaliumsulfat-Dodecahydrat

Synonym:  
Potassium aluminum sulfate dodecahydrate

$AlK(SO_4)_2 \cdot 12H_2O$   
Molecular Weight: 474,39  
CAS: 7784-24-9

### Aluminum potassium sulfate dodecahydrate > RPE - For analysis - ACS

RPE

Description ..... White crystals    Ammonium ..... ≤50 ppm    Fe ..... ≤10 ppm  
Identification ..... Positive    Chloride ..... ≤5 ppm    Na ..... ≤200 ppm  
Water-insoluble matter ..... ≤50 ppm    Heavy metals (Pb) ..... ≤10 ppm    Assay (complexometric) ..... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
417295	100 g	Plastic bottle	
417296	500 g	Plastic bottle	
417297	1 kg	Plastic bottle	

### Aluminum potassium sulfate dodecahydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description ..... White crystalline powder    pH 10% at 25° C ..... 3.0 ÷ 3.5    Heavy metals (Pb) ..... ≤ 20 ppm  
Identification ..... Positive    Loss on drying ..... 43.0 ÷ 46.0 %    Fe ..... ≤ 100 ppm  
Appearance of solution ..... Conform Ph.Eur.    Ammonium ..... ≤ 0.2 %    Assay (complexometric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
312401	1 kg	Plastic bottle	
312404	5 kg	Plastic tank	
312402	10 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Aluminum potassium sulfate dodecahydrate > RE - Pure**

RE

Description ..... White crystalline powder      Water-insoluble matter ..... ≤ 500 ppm      Fe ..... ≤ 300 ppm  
 Identification ..... Positive      Heavy metals (Pb) ..... ≤ 50 ppm      Assay (complexometric) ..... ≥ 97 %

Code	Size	Packaging	Notes
312508	2.5 kg	Plastic bottle	

**Aluminum sulfate**

• Alluminio solfato • Aluminium sulfate • Aluminio sulfato • Aluminiumsulfat

$Al_2(SO_4)_3 \cdot 18H_2O$   
 Molecular Weight: 666,43  
 CAS: 7784-31-8  
 EEC-N: 233-135-0

**Danger**

H318  
 P280i-P305+P351+P338-P310a

**Aluminum sulfate > RPE - For analysis - ACS**

RPE

Description ..... White crystals      Water-insoluble matter ..... ≤ 100 ppm      Fe ..... ≤ 20 ppm      Mg ..... ≤ 20 ppm  
 Identification ..... Positive      Heavy metals (Pb) ..... ≤ 10 ppm      Assay (complexometric) ..... 98.0 ÷ 102.0 %      Na ..... ≤ 0.02 %  
 Ca ..... ≤ 100 ppm      Chloride ..... ≤ 50 ppm      K ..... ≤ 50 ppm

Code	Size	Packaging	Notes
417424	100 g	Plastic bottle	
417425	500 g	Plastic bottle	
417427	1 kg	Plastic bottle	

**Aluminum sulfate > RE - Pure**

RE

Description ..... White crystals      Heavy metals (Pb) ..... ≤ 50 ppm      Assay (complexometric) ..... 16 ÷ 18 % (Al<sub>2</sub>O<sub>3</sub>)  
 Identification ..... Positive      Fe ..... ≤ 100 ppm

Code	Size	Packaging	Notes
312753	5 kg	Plastic tank	
312752	10 kg	Carton box	
312751	25 kg	Plastic bucket	

**Amidoschwarz 10B solution**

• Amido nero 10B in soluzione • Noir amido 10B solution • Negro Amido 10B solution • Amidoschwarz 10B losung

CAS: 1064-48-8

**Warning**

H319  
 P264-P280i-P305+P351+P338-P337+P313

**Amidoschwarz 10B solution > RS - For agroalimentary analysis**

RS

Density at 20°C ..... 1.006 ÷ 1.012      pH at 20°C ..... 2.30 ÷ 2.50      Absorbance (sol 1/100) at 620 nm ..... 0.700 ÷ 0.730 AU

Code	Size	Packaging	Notes
502050	5 l	Plastic tank	
502051	10 l	Plastic tank	

4-Aminoantipyrine ► 4-Aminophenazone

p-Aminobenzenesulfonamide ► Sulfanilamide

4-Aminobenzenesulfonic acid ► Sulfanilic acid



## p-Aminobenzoic acid

• Acido p-amminobenzoico • Acide p-aminobenzoïque • Acido p-aminobenzoico • p-Aminobenzoessäure

Synonym:

- 4-Aminobenzoic acid
- PABA

$H_2NC_6H_4COOH$   
Molecular Weight: 137,14  
CAS: 150-13-0  
EEC-N: 205-753-0

H412  
P273-P501a

### p-Aminobenzoic acid > ERBapharm - According to pharmacopoeia: USP

ERBapharm

Description ..... Yellowish powder      Organic impurities ..... Conform USP      Loss on drying ..... ≤0.2 %      Assay (acidimetric) ..... 98.0 ÷ 102.0 % s.s.  
Identification A (USP) ..... Positive      Aniline ..... ≤ 10 ppm      Sulphated ash ..... ≤0.1 %  
Identification B (USP) ..... Positive      p-Toluidine ..... ≤ 10 ppm      Heavy metals (Pb) ..... ≤20 ppm

Code	Size	Packaging	Notes
391804	100 g	Plastic bottle	
391805	1 kg	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

Aminocyclohexane ▶ Cyclohexylamine

2-Aminoethanol ▶ Ethanolamine



## Aminohippuric acid reagent

• Acido aminoippurico reattivo • Réactif à l'acide aminohippurique • Reactivo de ácido aminohípúrico • Reagenz mit Aminohippursäure

Classification transport  
ONU: 1993

### Aminohippuric acid reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611003701	100 ml	Glass bottle	Ref Ph.Eur 1003701

4-Amino-3-hydroxy-1-naphthalenesulfonic acid ▶ 1-Amino-2-naphthol-4-sulfonic acid



## 1-Amino-2-naphthol-4-sulfonic acid

• Acido 1-ammino-2-naftolo-4-solfonico • Acide 1-amino-2-naphtol-4-sulfonique  
• Acido 1-amino-2-naftol-4-sulfonico • 1-Amino-2-naphthol-4-sulfonsäure

Synonym:

4-Amino-3-hydroxy-1-naphthalenesulfonic acid

$NH_2C_{10}H_6(OH)SO_3H$   
Molecular Weight: 239,25  
CAS: 116-63-2  
EEC-N: 204-147-3

### 1-Amino-2-naphthol-4-sulfonic acid > RPE - For analysis

RPE

Description ..... Pink granular powder      Water (K.F) ..... ≤ 5 %      Assay ..... ≥ 94 %  
Identification ..... Positive      Sulphated ash ..... ≤ 0.5 %

Code	Size	Packaging	Notes
402032	25 g	Glass bottle	

**For the determination of phosphates**



## 4-Aminophenazone

• 4-Amminofenazone • 4-Aminophénazone • 4-Aminofenazona • 4-Aminophenazon

Synonym:

- 4-Aminoantipyrine
- 4-Amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one

$C_8H_5NN(CH_3)C(CH_3):C(NH_2)CO$   
Molecular Weight: 203,25  
CAS: 83-07-8  
EEC-N: 201-452-3



### Warning

H302  
P264-P270-P301+P312a-P330-P501a

### 4-Aminophenazone > RS - For phenols detection

RS

Description ..... Yellowish crystalline powder    Melting point ..... 105.5 ÷ 110 °C    Residue on ignition ..... ≤ 0.1 %  
Identification ..... Positive    Loss on drying ..... ≤ 1.5 %    Assay (non-aqueous medium) ..... ≥ 97.5 % (s.s.)

Code	Size	Packaging	Notes
418381	25 g	Glass bottle	



## m-Aminophenol

• m-Amminofenolo • m-Aminophenol • m-Aminofenol • m-Aminophenol

Synonym:

- 3-Aminophenol

$NH_2C_6H_4OH$   
Molecular Weight: 109,13  
CAS: 591-27-5  
EEC-N: 209-711-2

### Classification transport

ONU: 2512  
Transport Hazard class: 6.1  
Packing group III



### Warning

H302-H332-H411  
P261-P264-P271-P301+P312a-P304+P340-P501a

### m-Aminophenol > RE - Pure

RE

Description ..... Yellowish powder    Identification ..... Positive    Melting point ..... 122 ÷ 126 °C    Assay (ex nitrogen) ..... ≥ 98 %

Code	Size	Packaging	Notes
418564	100 g	Glass bottle	



## p-Aminophenol

• p-Amminofenolo • p-Aminophénol • p-Aminofenol • p-Aminophenol

Synonym:

- 4-Aminophenol
- 4-Hydroxyaniline

$NH_2C_6H_4OH$   
Molecular Weight: 109,13  
CAS: 123-30-8  
EEC-N: 204-616-2

### Classification transport

ONU: 2512  
Transport Hazard class: 6.1  
Packing group III



### Warning

H302-H332-H341-H410  
P261-P264-P271-P280-P304+P340-P308+P313

### p-Aminophenol > RE - Pure

RE

Description ..... White powder or yellow    Identification ..... Positive    Melting point ..... 185 ÷ 195 °C    Assay (GLC) ..... ≥ 96.0 %

Code	Size	Packaging	Notes
418594	100 g	Glass bottle	

## 2-Aminopropane ► Isopropylamine



## Aminopyrazolone solution

• Amminopirazolone soluzione • Aminopyrazolone en solution • Aminopirazolone en solución • Aminopyrazol in Lösung

$C_{13}H_{17}N_3O$   
Molecular Weight: 231,29  
CAS: 58-15-1

### Aminopyrazolone solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611004601	100 ml	Glass bottle	



## Amman's lactophenol solution

• Lattofenolo d'Amman soluzione • Lactophénol d'Amman en solution • Lactofenol de Amman solución • Lactophenol von Amman in Lösung

### Classification transport

ONU: 2810  
Transport Hazard class: 6.1  
Packing group II



### Danger

H302-H331-H314-H341-H373  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P308+P313-  
P403+P233

## Amman's lactophenol solution > RS - For microscopy

RS

Description ..... Amber liquid Identification ..... Positive Density at 20°C ..... 1.155 ÷ 1.159

Code	Size	Packaging	Notes
457531	100 ml	Glass bottle	

**Dye for bacteriology. Contains phenol**



## Ammonia solution 32%

• Ammoniacca soluzione 32% • Ammoniaque solution 32% • Amonio hidróxido 32% • Ammoniaklösung 32% *Synonym: Ammonium hydroxide solution*

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6  
EEC-N: 215-647-6

### Classification transport

ONU: 2672  
Transport Hazard class: 8  
Packing group III



### Danger

H302-H314-H335-H400  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

## Ammonia solution 32% > RE - Pure

RE

Description ..... Clear liquid Identification ..... Positive Assay (alcalimetric) ..... 28 ÷ 34 %  
Colour ..... ≤ 10 APHA Density at 20°C ..... 0.880 ÷ 0.898

Code	Size	Packaging	Notes
528503	5 l	Plastic bottle	
528501	18 kg	Plastic tank	



## Ammonia solution 30%

• Ammoniacca soluzione 30% • Ammoniaque solution 30% • Amonio hidróxido 30% • Ammoniaklösung 30% *Synonym: Ammonium hydroxide solution*

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6  
EEC-N: 215-647-6

### Classification transport

ONU: 2672  
Transport Hazard class: 8  
Packing group III



### Danger

H302-H314-H335-H400  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

## Ammonia solution 30% > RS - RSE - For electronic use

RS

Description ..... Clear liquid	Ag ..... ≤0.02 ppm	Cu ..... ≤0.01 ppm	Pt ..... ≤0.05 ppm
Colour (APHA) ..... ≤10	Al ..... ≤0.05 ppm	Fe ..... ≤0.03 ppm	Sb ..... ≤0.05 ppm
Identification ..... Positive	As ..... ≤0.025 ppm	Ga ..... ≤0.02 ppm	Sn ..... ≤0.02 ppm
Density at 20° C ..... 0.892 ÷ 0.910	Au ..... ≤0.05 ppm	In ..... ≤0.02 ppm	Sr ..... ≤0.02 ppm
Carbonate ..... ≤5 ppm	B ..... ≤0.01 ppm	K ..... ≤0.2 ppm	Ta ..... ≤0.1 ppm
Chloride ..... ≤0.25 ppm	Ba ..... ≤0.1 ppm	Li ..... ≤0.02 ppm	Ti ..... ≤0.05 ppm
Phosphate ..... ≤0.2 ppm	Be ..... ≤0.02 ppm	Mg ..... ≤0.1 ppm	Tl ..... ≤0.05 ppm
Heavy metals (Pb) ..... ≤0.2 ppm	Bi ..... ≤0.02 ppm	Mn ..... ≤0.01 ppm	V ..... ≤0.05 ppm
Residue on ignition ..... ≤3 ppm	Ca ..... ≤0.2 ppm	Mo ..... ≤0.05 ppm	Zn ..... ≤0.05 ppm
Subst. reducing KMnO <sub>4</sub> ..... ≤5 ppm	Cd ..... ≤0.01 ppm	Na ..... ≤0.5 ppm	Zr ..... ≤0.05 ppm
Sulphate ..... ≤1 ppm	Co ..... ≤0.01 ppm	Ni ..... ≤0.01 ppm	
Assay (alkalimetric) ..... 28 ÷ 32 %	Cr ..... ≤0.01 ppm	Pb ..... ≤0.01 ppm	

Code	Size	Packaging	Notes
420071	1 l	Plastic bottle	
420073	2 l	Glass bottle	
420077	5 l	Plastic bottle	
420075	25 kg	Combined drum	



## Ammonia solution 30% > RPE - For analysis - ACS

**RPE**

Description .....	Clear colourless liquid	Heavy metals (Pb).....	≤0.4 ppm	Cd.....	≤0.01 ppm	Na.....	≤1 ppm
Colour (APHA) .....	≤10	Subst. reducing KMnO4.....	≤8 ppm(5m)	Co.....	≤0.01 ppm	Ni.....	≤0.02 ppm
Identification .....	Positive	Silicate .....	≤10 ppm	Cr.....	≤0.02 ppm	Pb.....	≤0.02 ppm
Assay (alkalimetric).....	28.0 ÷ 30.0 %	Sulphide.....	≤0.1 ppm	Cu.....	≤0.02 ppm	Zn.....	≤0.05 ppm
Density at 20° C .....	0.892 ÷ 0.910	Sulphate.....	≤2 ppm	Fe.....	≤0.05 ppm	Nitrate .....	≤2 ppm
Carbonate.....	≤10 ppm	Ag.....	≤0.02 ppm	K.....	≤0.2 ppm	Residue on ignition.....	≤20 ppm
Chloride.....	≤0.5 ppm	As.....	≤0.02 ppm	Mg.....	≤0.1 ppm		
Phosphate .....	≤0.3 ppm	Ca.....	≤0.5 ppm	Mn.....	≤0.01 ppm		

Code	Size	Packaging	Notes
419941	1 l	Glass bottle	
419943	2 l	Glass bottle	
419948	2 l	Plastic bottle	
419945	5 l	Plastic bottle	
419946	25 kg	Combined drum	

## Ammonia solution 30% > RE - Pure

**RE**

Description .....	Clear liquid	Residue on evaporation .....	≤0.1 %	Sulphate.....	≤500 ppm
Identification .....	Positive	Chloride.....	≤300 ppm	Fe.....	≤20 ppm
Density at 15° C .....	0.89 ÷ 0.91	Heavy metals (Pb).....	≤50 ppm	Assay (alkalimetric).....	28 ÷ 32 %

Code	Size	Packaging	Notes
314873	2 l	Glass bottle	
314871	25 kg	Combined drum	



## Ammonia solution 28%

• Ammoniaca soluzione 28% • Ammoniaque solution 28% • Amonio hidróxido 28% • Ammoniaklösung 28% • *Ammonium hydroxide solution*

Synonym:

NH<sub>3</sub>OH  
 Molecular Weight: 35,05  
 CAS: 1336-21-6  
 EEC-N: 215-647-6

**Classification transport**  
 ONU: 2672  
 Transport Hazard class: 8  
 Packing group III



**Danger**  
 H302-H314-H335-H400  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338-P403+P233

## Ammonia solution 28% > ERBApharm - According to pharmacopoeia: NF-FU-Ph.Eur.

**ERBApharm**

Description .....	Clear colourless liquid	Carbonate.....	≤ 60 ppm	Fe.....	≤ 0.25 ppm	Ph.Eur.	
Identification .....	Positive	Chloride.....	≤ 1 ppm	Non volat.substances .....	≤ 0.002 % m/v	Pyridine and homologues...	Conform Ph.Eur.
Appearance of solution .....	Conform Ph.Eur.	Sulphate.....	≤ 5 ppm	Assay (alkalimetric).....	27.0 ÷ 30.0 % NH <sub>3</sub>	Origin (BSE/TSE).....	Synthesis
Density at 20° C .....	0.892 ÷ 0.910	Heavy metals (Pb).....	≤ 1 ppm	Ready oxidizable substances.....	Conform		

Code	Size	Packaging	Notes
314861	1 l	Glass bottle	
314863	2 l	Glass bottle	
314866	25 kg	Combined drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Ammonia solution 25%

• Ammoniaca soluzione 25% • Ammoniaque solution 25% • Amonio hidróxido 25% • Ammoniaklösung 25% • Ammonium hydroxide solution

Synonym:

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6  
EEC-N: 215-647-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H314-H335-H400  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Ammonia solution 25% > RS - RSE - For electronic use

RS

Description .....	Clear liquid	Assay (alkalimetric).....	24.0 ÷ 26.0 %	Bi .....	≤0.02 ppm	Pb.....	≤0.01 ppm
Density at 20° C .....	0.901 ÷ 0.907 g/ml	Heavy metals (Pb).....	≤0.2 ppm	Ca .....	≤0.2 ppm	Pt.....	≤0.05 ppm
Colour (APHA) .....	≤10	Residue on ignition.....	≤3 ppm	Cd .....	≤0.01 ppm	Sb.....	≤0.05 ppm
Sulphated ash .....	≤ 5 ppm	Subst. reducing KMnO4 .....	≤5 ppm	Co .....	≤0.01 ppm	Sn.....	≤0.02 ppm
Identification .....	Positive	Total sulphur .....	≤1 ppm	Ga.....	≤0.02 ppm	Sr.....	≤0.02 ppm
Fe .....	≤ 50 ppb	Ag .....	≤0.02 ppm	In .....	≤0.02 ppm	Ta.....	≤0.1 ppm
Carbonate.....	≤5 ppm	Al .....	≤0.05 ppm	K.....	≤0.2 ppm	Ti .....	≤0.05 ppm
Cu .....	≤ 10 ppb	As .....	≤0.025 ppm	Li .....	≤0.02 ppm	Tl .....	≤0.05 ppm
Chloride.....	≤0.25 ppm	Au .....	≤0.05 ppm	Mg .....	≤0.1 ppm	V.....	≤0.05 ppm
Cr .....	≤ 10 ppb	B.....	≤0.01 ppm	Mn .....	≤0.01 ppm	Zn .....	≤0.05 ppm
Ni .....	≤ 10 ppb	Ba .....	≤0.1 ppm	Mo .....	≤0.05 ppm	Zr.....	≤0.05 ppm
Phosphate .....	≤0.2 ppm	Be.....	≤0.02 ppm	Na .....	≤0.5 ppm		

Code	Size	Packaging	Notes
420085	5 l	Plastic bottle	
420084	25 kg	Combined drum	
420031	170 kg	Plastic drum	

### Ammonia solution 25% > RS - MOS - For electronic use

RS

Description .....	Clear liquid	Ag .....	≤0.02 ppm	Cu .....	≤0.01 ppm	Pt.....	≤0.05 ppm
Colour (APHA) .....	≤10	Al .....	≤0.05 ppm	Fe .....	≤0.03 ppm	Sb.....	≤0.05 ppm
Identification .....	Positive	As .....	≤0.025 ppm	Ga.....	≤0.02 ppm	Sn.....	≤0.02 ppm
Density at 20° C .....	0.901 ÷ 0.907	Au .....	≤0.05 ppm	In .....	≤0.02 ppm	Sr.....	≤0.02 ppm
Carbonate.....	≤5 ppm	B.....	≤0.01 ppm	K.....	≤0.2 ppm	Ta.....	≤0.1 ppm
Chloride.....	≤0.25 ppm	Ba .....	≤0.1 ppm	Li .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Phosphate .....	≤0.2 ppm	Be.....	≤0.02 ppm	Mg .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Heavy metals (Pb).....	≤0.2 ppm	Bi .....	≤0.02 ppm	Mn .....	≤0.01 ppm	V.....	≤0.05 ppm
Residue on ignition.....	≤3 ppm	Ca .....	≤0.2 ppm	Mo .....	≤0.05 ppm	Zn .....	≤0.05 ppm
Subst. reducing KMnO4 .....	≤5 ppm	Cd .....	≤0.01 ppm	Na .....	≤0.5 ppm	Zr.....	≤0.05 ppm
Total sulphur .....	≤1 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.01 ppm		
Assay (alkalimetric).....	24.0 ÷ 26.0 %	Cr.....	≤0.01 ppm	Pb .....	≤0.01 ppm		

Code	Size	Packaging	Notes
420051	1 l	Plastic bottle	
420052	2.5 l	Plastic bottle	

### Ammonia solution 25% > RPE - For analysis

RPE

Description .....	Clear liquid	Phosphate .....	≤0.3 ppm	As .....	≤0.02 ppm	K.....	≤0.2 ppm
Colour (APHA) .....	≤10	Heavy metals (Pb).....	≤0.4 ppm	Ca .....	≤0.5 ppm	Mg .....	≤0.1 ppm
Identification .....	Positive	Residue on ignition.....	≤3 ppm	Cd .....	≤0.01 ppm	Mn .....	≤0.01 ppm
Density at 20° C .....	0.904 ÷ 0.910	Subst. reducing KMnO4 .....	≤8 ppm(5m)	Co .....	≤0.01 ppm	Na.....	≤1 ppm
Assay (alkalimetric).....	24.0 ÷ 26.0 %	Sulphide .....	≤0.1 ppm	Cr.....	≤0.02 ppm	Ni.....	≤0.02 ppm
Carbonate.....	≤10 ppm	Total sulphur .....	≤1 ppm	Cu .....	≤0.02 ppm	Pb.....	≤0.02 ppm
Chloride.....	≤0.5 ppm	Ag .....	≤0.02 ppm	Fe .....	≤0.05 ppm	Zn .....	≤0.05 ppm

Code	Size	Packaging	Notes
419993	2 l	Glass bottle	



## Ammonia solution 20 - 22%

- Ammoniaca soluzione 20 - 22%
- Ammoniaque solution 20 - 22%
- Amonio hidróxido 20 - 22%
- Ammoniaklösung 20 - 22%

Synonym:  
Ammonium hydroxide solution

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H314-H335-H400  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Ammonia solution 20 - 22% > RS - Ultrapure - For trace analysis at ppt level

RS

Description	Clear colourless liquid	Mg	≤ 20 ppt	Er	≤ 10 ppt	Rh	≤ 10 ppt
Identification	Positive	Mn	≤ 10 ppt	Eu	≤ 10 ppt	Rb	≤ 10 ppt
Ag	≤ 10 ppt	Na	≤ 20 ppt	Gd	≤ 10 ppt	Sm	≤ 10 ppt
Al	≤ 20 ppt	Ni	≤ 10 ppt	Ga	≤ 10 ppt	Sc	≤ 10 ppt
As	≤ 10 ppt	Pb	≤ 10 ppt	Ge	≤ 10 ppt	Te	≤ 10 ppt
Ba	≤ 10 ppt	Sn	≤ 10 ppt	Au	≤ 10 ppt	Tb	≤ 10 ppt
Be	≤ 10 ppt	Sr	≤ 10 ppt	Ho	≤ 10 ppt	Th	≤ 10 ppt
Bi	≤ 10 ppt	Tl	≤ 10 ppt	In	≤ 10 ppt	Tm	≤ 10 ppt
Ca	≤ 20 ppt	Ti	≤ 10 ppt	La	≤ 10 ppt	W	≤ 10 ppt
Cd	≤ 10 ppt	Zn	≤ 10 ppt	Li	≤ 10 ppt	U	≤ 10 ppt
Co	≤ 10 ppt	Assay (alkalimetric)	20 ÷ 22 %	Lu	≤ 10 ppt	V	≤ 10 ppt
Cr	≤ 10 ppt	Sb	≤ 10 ppt	Mo	≤ 10 ppt	Yb	≤ 10 ppt
Cu	≤ 20 ppt	Ce	≤ 10 ppt	Nd	≤ 10 ppt	Y	≤ 10 ppt
Fe	≤ 20 ppt	Cs	≤ 10 ppt	Nb	≤ 10 ppt	Zr	≤ 10 ppt
K	≤ 20 ppt	Dy	≤ 10 ppt	Pr	≤ 10 ppt		

Code	Size	Packaging	Notes
420161	500 ml	Plastic bottle	

### Ammonia solution 20 - 22% > RS - Superpure - For trace analysis at ppb level

RS

Description	Clear liquid	Mg	≤ 1 ppb	Colour (APHA)	≤ 10	Rh	≤ 0.5 ppb
Identification	Positive	Mn	≤ 0.5 ppb	Ce	≤ 0.1 ppb	Rb	≤ 0.1 ppb
Ag	≤ 0.5 ppb	Mo	≤ 0.5 ppb	Cs	≤ 0.1 ppb	Sm	≤ 0.1 ppb
Al	≤ 1 ppb	Na	≤ 1 ppb	Dy	≤ 0.1 ppb	Sc	≤ 0.1 ppb
As	≤ 1 ppb	Ni	≤ 0.5 ppb	Er	≤ 0.1 ppb	Te	≤ 0.1 ppb
Ba	≤ 0.1 ppb	Pb	≤ 0.1 ppb	Eu	≤ 0.1 ppb	Tb	≤ 0.1 ppb
Be	≤ 0.1 ppb	Sb	≤ 0.5 ppb	Gd	≤ 0.1 ppb	Tl	≤ 0.1 ppb
Bi	≤ 0.1 ppb	Se	≤ 1 ppb	Ga	≤ 0.1 ppb	Tm	≤ 0.1 ppb
Ca	≤ 1 ppb	Sn	≤ 0.5 ppb	Ge	≤ 0.1 ppb	W	≤ 0.1 ppb
Cd	≤ 0.5 ppb	Sr	≤ 0.1 ppb	Au	≤ 0.5 ppb	Yb	≤ 0.1 ppb
Co	≤ 0.5 ppb	Ti	≤ 0.5 ppb	Ho	≤ 0.1 ppb	Y	≤ 0.1 ppb
Cr	≤ 0.5 ppb	V	≤ 0.5 ppb	In	≤ 0.1 ppb	Chloride	≤ 0.5 ppm
Cu	≤ 0.5 ppb	Zn	≤ 0.5 ppb	La	≤ 0.1 ppb	Phosphate	≤ 0.01 ppm
Fe	≤ 1 ppb	Zr	≤ 0.1 ppb	Lu	≤ 0.1 ppb	Sulphate	≤ 1 ppm
Hg	≤ 0.2 ppb	Assay (alkalimetric)	20 ÷ 22 %	Nd	≤ 0.1 ppb		
K	≤ 1 ppb	U	≤ 0.1 ppb	Nb	≤ 0.1 ppb		
Li	≤ 0.1 ppb	Th	≤ 0.1 ppb	Pr	≤ 0.1 ppb		

Code	Size	Packaging	Notes
420175	500 ml	Plastic bottle	

### Ammonia solution 20 - 22% > RPE - For analysis

RPE

Description	Clear liquid	Phosphate	≤ 0.3 ppm	As	≤ 0.02 ppm	K	≤ 0.2 ppm
Colour (APHA)	≤ 10	Heavy metals (Pb)	≤ 0.4 ppm	Ca	≤ 0.5 ppm	Mg	≤ 0.1 ppm
Identification	Positive	Residue on calcination	≤ 3 ppm	Cd	≤ 0.01 ppm	Mn	≤ 0.01 ppm
Density at 20° C	0.917 ÷ 0.923	Subst. reducing KMnO <sub>4</sub>	≤ 8 ppm(5m)	Co	≤ 0.01 ppm	Na	≤ 1 ppm
Assay (alkalimetric)	20 ÷ 22 %	Sulphide	≤ 0.1 ppm	Cr	≤ 0.02 ppm	Ni	≤ 0.02 ppm
Carbonate	≤ 10 ppm	Total sulphur	≤ 1 ppm	Cu	≤ 0.02 ppm	Pb	≤ 0.02 ppm
Chloride	≤ 0.5 ppm	Ag	≤ 0.02 ppm	Fe	≤ 0.05 ppm	Zn	≤ 0.05 ppm

Code	Size	Packaging	Notes
419981	1 l	Glass bottle	
419983	2 l	Glass bottle	
419984	25 kg	Combined drum	



## Ammonia solution 17%

• Ammoniaca soluzione 17% • Ammoniaque solution 17% • Amonio hidróxido 17% • Ammoniaklösung 17% • *Synonym: Ammonium hydroxide solution*

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H314-H335-H400  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Ammonia solution 17% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611004701	250 ml	Plastic bottle	Ref Ph.Eur 1004701

**Storage: protected from atmospheric carbon dioxide, at a temperature below 20 °C**



## Ammonia solution 10%

• Ammoniaca soluzione 10% • Ammoniaque solution 10% • Amonio hidróxido 10% • Ammoniaklösung 10% • *Synonym: Ammonium hydroxide solution*

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H314-H335-H400  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Ammonia solution 10% > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    Density at 15° C ..... 0.956 ÷ 0.962    Assay (alkalimetric)..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E420001	1 l	Plastic bottle	
E420002	5 l	Plastic tank	



## Ammonia solution 6N

• Ammonio soluzione 6N • Ammoniaque solution 6N • Amonio solución 6N • Ammoniaklösung 6N • *Synonym: Ammonium hydroxide solution*

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6  
EEC-N: 215-647-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H314-H335-H400  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Ammonia solution 6N > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000151	1 l	Plastic bottle	



## Ammonia solution diluted

• Ammoniaca soluzione diluita • Ammoniaque solution diluée • Amonio hidróxido solución diluido • Ammoniaklösung verdünnt • *Synonym: Ammonium hydroxide solution*

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6



**Danger**  
H315-H318  
P264-P280a-P305+P351+P338-P310a-P362+P364-  
P332+P313

### Ammonia solution diluted > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611004702	1 l	Plastic bottle	Ammonia, dilute R1 Ref Ph.Eur 1004702
611004703	1 l	Plastic bottle	Ammonia, dilute R2 Ref Ph.Eur 1004703



## Ammonia buffer solution pH 10

• Tampone ammoniacale pH 10 • Tampon ammoniacal pH10 • Tampón de amoníaco pH 10 • Ammoniakpufferlösung pH 10

### Classification transport

ONU: 1719  
Transport Hazard class: 8  
Packing group III



### Danger

H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

## Ammonia buffer solution pH 10 > RS - For analysis

RS

pH..... 10.5 - 10.9 unite pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0194/22	5 l	Plastic tank	
PS0194/95	5 l	Kubidos	



## Ammoniacal solution of copper tetrammine

• Rame tetrammina soluzione ammoniacale • Solution amoniacale de tétraminecuivre • Cobre tetrammina solución amoniacale  
• Ammoniaklösung von Tetramminecuivre

### Classification transport

ONU: 3266  
Transport Hazard class: 8  
Packing group III



### Danger

H302-H314-H335-H410  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

## Ammoniacal solution of copper tetrammine > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611022600	100 ml	Glass bottle	Ref Ph.Eur 1022600



## Ammonium standard solution

• Ammonio standard soluzione • Ammonium standard solution • Amonio, solución patrón • Ammonium-Standardlösung



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

## Ammonium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000301	100 ml	Plastic bottle	A 2.5 ppm solution: to dilute according to Ref Ph.Eur 5000301
615000302	100 ml	Plastic bottle	A 1 ppm solution: to dilute according to Ref Ph.Eur 5000302
615000309	100 ml	Plastic bottle	A 100 ppm solution: to dilute according to Ref Ph.Eur 5000300

## Ammonium standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503311	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503313	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**





## Ammonium acetate

• Ammonio acetato • Ammonium acétate • Amonio acetato • Ammoniumacetat

CH<sub>3</sub>COONH<sub>4</sub>  
 Molecular Weight: 77,08  
 CAS: 631-61-8  
 EEC-N: 211-162-9

### Ammonium acetate > RS - For LC/MS

RS

Assay ..... ≥ 98 %	Al ..... ≤ 1 ppm	Fe ..... ≤ 2 ppm	Sr ..... ≤ 1 ppm
Impurities ..... ≤ 50 ppm	As ..... ≤ 0.1 ppm	K ..... ≤ 5 ppm	Zn ..... ≤ 1 ppm
Water ..... ≤ 2 %	Ba ..... ≤ 1 ppm	Li ..... ≤ 1 ppm	Grad. Elution H.Peak at 254 nm < 0.001 AU
Residue on ignition ..... ≤ 100 ppm	Bi ..... ≤ 1 ppm	Mg ..... ≤ 1 ppm	Grad. Elution drift at 254 nm ... < 0.005 AU
pH ..... 6.5 ÷ 7.4	Ca ..... ≤ 5 ppm	Mn ..... ≤ 1 ppm	T260nm (1M) ..... ≥ 98 %
Melting point ..... 112 ÷ 116 °C	Cd ..... ≤ 1 ppm	Mo ..... ≤ 1 ppm	T280nm (1M) ..... ≥ 99 %
Chloride ..... ≤ 5 ppm	Co ..... ≤ 1 ppm	Na ..... ≤ 5 ppm	Preparation ..... Filtered through 0.1
Nitrate ..... ≤ 10 ppm	Cr ..... ≤ 1 ppm	Ni ..... ≤ 1 ppm	
Sulfate ..... ≤ 10 ppm	Cu ..... ≤ 1 ppm	Pb ..... ≤ 1 ppm	

Code	Size	Packaging	Notes
418781	50 g	Glass bottle	

Additive for eluent phase for LC-MS

### Ammonium acetate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Crist. bianchi	Water-insoluble matter ..... ≤ 50 ppm	Nitrate ..... ≤ 10 ppm	Fe ..... ≤ 5 ppm
Identification ..... Positive	Residue on ignition ..... ≤ 100 ppm	Sulphate ..... ≤ 10 ppm	Assay (acc.to Sørensen) ..... ≥ 98 %
pH sol. 5% at 25° C ..... 6.7 ÷ 7.3	Chloride ..... ≤ 5 ppm	Heavy metals (Pb) ..... ≤ 5 ppm	

Code	Size	Packaging	Notes
418775	100 g	Plastic bottle	
418776	500 g	Plastic bottle	
418777	1 kg	Plastic bottle	
418772	5 kg	Plastic jar	
418773	5 kg	Plastic bucket	
418771	25 kg	Plastic bucket	

### Ammonium acetate > RE - Pure

RE

Description . White semitransparent crystals	Identification ..... Positive	Water ..... ≤ 2 %	Assay (non-aqueous medium) ≥ 97.5 % (s.s.)
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Code	Size	Packaging	Notes
313507	1 kg	Plastic bottle	
313508	5 kg	Plastic tank	
313502	25 kg	Plastic bucket	
313504	50 kg	Fibre drum	

Ammonium aluminum sulfate dodecahydrate ▶ Aluminum ammonium sulfate dodecahydrate



## Ammonium bicarbonate

• Ammonio bicarbonato • Ammonium bicarbonate • Amonio bicarbonato • Ammoniumbicarbonat

Synonym:  
Ammonium hydrogen carbonate

NH<sub>4</sub>HCO<sub>3</sub>  
Molecular Weight: 79,06  
CAS: 1066-33-7  
EEC-N: 213-911-5



**Warning**  
H302  
P264-P270-P301+P312a-P330-P501a

### Ammonium bicarbonate > RPE - For analysis

**RPE**

Description .....	White crystalline powder	Water-insoluble matter .....	≤30 ppm	Cu .....	≤10 ppm	Ni .....	≤10 ppm
Identification .....	Positive	Sulphate .....	≤50 ppm	Fe .....	≤10 ppm	Pb .....	≤10 ppm
pH sol. 5% at 25° C .....	7.0 ÷ 8.0	Residue on ignition .....	≤500 ppm	K .....	≤10 ppm	Assay (acidimetric) .....	≥98.5 %
Chloride .....	≤5 ppm	As .....	≤1 ppm	Mg .....	≤10 ppm		
Phosphate .....	≤5 ppm	Ca .....	≤100 ppm	Na .....	≤20 ppm		

Code	Size	Packaging	Notes
418925	100 g	Plastic bottle	
418926	500 g	Plastic bottle	
418927	1 kg	Plastic bottle	
418929	5 kg	Plastic tank	

### Ammonium bicarbonate > RE - Pure

**RE**

Description .....	White crystalline powder	Sulphated ash .....	≤500 ppm	Sulphate .....	≤150 ppm
Identification .....	Positive	Chloride .....	≤50 ppm	Assay (acidimetric) .....	≥99 %

Code	Size	Packaging	Notes
313601	5 kg	Plastic tank	

## Ammonium bifluoride ▶ Ammonium hydrogen difluoride



## Ammonium bromide

• Ammonio bromuro • Ammonium bromure • Amonio bromuro • Ammoniumbromid

NH<sub>4</sub>Br  
Molecular Weight: 97,94  
CAS: 12124-97-9  
EEC-N: 235-183-8

### Ammonium bromide > RPE - For analysis - ACS

**RPE**

Description .....	White crystalline powder	Residue on ignition .....	≤100 ppm	Sulphate .....	≤50 ppm	Assay (argentimetric) .....	≥99.0 %
Identification .....	Positive	Bromate .....	≤20 ppm	Heavy metals (Pb) .....	≤5 ppm		
pH sol. 5% at 25° C .....	4.5 ÷ 6.0	Chloride .....	≤0.2 %	Ba .....	≤20 ppm		
Water-insoluble matter .....	≤50 ppm	Iodide .....	Conform	Fe .....	≤5 ppm		

Code	Size	Packaging	Notes
419174	100 g	Plastic bottle	
419175	250 g	Plastic bottle	
419176	500 g	Plastic bottle	
419177	1 kg	Plastic bottle	



## Ammonium carbamate

• Ammonio carbammato • Ammonium carbamate • Amonio carbamato • Ammoniumcarbamat

Synonym:  
Carbamic acid ammonium salt

$\text{NH}_2\text{COONH}_4$   
Molecular Weight: 78,07  
CAS: 1111-78-0  
EEC-N: 214-185-2



**Warning**  
H302  
P264-P270-P301+P312a-P330-P501a

### Ammonium carbamate > RPE - For analysis

**RPE**

Description .....	Pezzi irregolari bianchi	Cu .....	≤ 5 ppm	Pb .....	≤ 5 ppm	Cr .....	≤ 5 ppm
Identification .....	Positive	Fe .....	≤ 5 ppm	Zn .....	≤ 5 ppm	Mn .....	≤ 5 ppm
Chloride .....	≤ 5 ppm	K .....	≤ 50 ppm	Assay (alkalimetric) .....	≥ 99.5 %	Residue on calcination .....	≤ 20 ppm
Phosphate .....	≤ 5 ppm	Mg .....	≤ 5 ppm	Sulphate .....	≤ 10 ppm		
Nitrate .....	≤ 10 ppm	Na .....	≤ 50 ppm	Cd .....	≤ 5 ppm		
Ca .....	≤ 10 ppm	Ni .....	≤ 5 ppm	Co .....	≤ 5 ppm		

Code	Size	Packaging	Notes
419201	100 g	Plastic bottle	
419204	500 g	Plastic bottle	
419202	1 kg	Plastic bottle	



## Ammonium carbonate

• Ammonio carbonato • Ammonium carbonate • Amonio carbonato • Ammoniumcarbonat

Synonym:  
Hartshorn salt

$(\text{NH}_4)_2\text{CO}_3$   
Molecular Weight: 96,09  
CAS: 10361-29-2  
EEC-N: 233-786-0



**Warning**  
H302  
P264-P270-P301+P312a-P330-P501a

### Ammonium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	White crystals	Non volat.substances .....	≤ 100 ppm	Heavy metals (Pb) .....	≤ 5 ppm
Identification .....	Positive	Chloride .....	≤ 5 ppm	Fe .....	≤ 5 ppm
Water-insoluble matter .....	≤ 50 ppm	Total sulphur .....	≤ 20 ppm	Assay (alkalimetric) .....	≥ 30.0 %

Code	Size	Packaging	Notes
419235	100 g	Plastic bottle	
419236	500 g	Plastic bottle	
419237	1 kg	Plastic bottle	
419239	5 kg	Plastic tank	
419232	25 kg	Plastic bucket	



## Ammonium carbonate solution 158 g/l

• Ammonio carbonato soluzione 158 g/l • Ammonium carbonate solution 158 g/l • Amonio carbonato solución 158 g/l • Ammoniumcarbonatlösung 158 g/l

Molecular Weight: 96,09

HEU210

### Ammonium carbonate solution 158 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611005201	1 l	Plastic bottle	Ref Ph.Eur 1005201



## Ammonium chloride

• Ammonio cloruro • Ammonium chlorure • Amonio cloruro • Ammoniumchlorid

Synonym:  
Salmiac

NH<sub>4</sub>Cl  
Molecular Weight: 53,49  
CAS: 12125-02-9  
EEC-N: 235-186-4



### Warning

H302-H319  
P264-P280i-P301+P312a-P305+P351+P338-  
P337+P313-P501a

### Ammonium chloride > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder  
Identification ..... Positive  
pH sol. 5% at 25° C ..... 4.5 ÷ 5.5

Water-insoluble matter ..... ≤50 ppm  
Residue on ignition ..... ≤ 100 ppm  
Phosphate ..... ≤2 ppm

Sulphate ..... ≤20 ppm  
Heavy metals (Pb) ..... ≤5 ppm  
Ca ..... ≤10 ppm

Fe ..... ≤2 ppm  
Mg ..... ≤5 ppm  
Assay (argentimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
419415	100 g	Plastic bottle	
419416	500 g	Plastic bottle	
419417	1 kg	Plastic bottle	
419419	5 kg	Plastic tank	
419412	25 kg	Drum	

### Ammonium chloride > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... White crystalline powder  
Identification ..... Positive  
Appearance of solution ..... Conform Ph.Eur.  
Acidity or alkalinity ..... Conform Ph.Eur.

Bromide and Iodide ..... Conform Ph.Eur.  
Thiocyanate ..... Conform USP-NF  
pH (1:20) ..... 4.6 ÷ 6.0  
Loss on drying ..... ≤0.5 %

Sulphated ash ..... ≤0.1 %  
Heavy metals (Pb) ..... ≤10 ppm  
Sulphate ..... ≤150 ppm  
Ca ..... ≤200 ppm

Fe ..... ≤20 ppm  
Assay (argentimetric) ..99.5 ÷ 100.5 % s.s.  
Origin (BSE/TSE) ..... Synthesis  
Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
313957	1 kg	Plastic bottle	
313952	2.5 kg	Plastic bottle	
313956	5 kg	Plastic tank	
313951	25 kg	Plastic bucket	
313954	50 kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

### Ammonium chloride > RE - Pure

RE

Description ..... Polvere crist. bianca parz. ammassata  
Identification ..... Positive  
Water (K.F.) ..... ≤ 0.1 %

Not soluble matter ..... ≤ 0.02 %  
Sulphated ash ..... ≤ 0.3 %

Fe ..... ≤ 10 ppm  
Assay (argentimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
314002	2.5 kg	Plastic bottle	
314001	25 kg	Plastic bucket	



## Ammonium chloride buffer solution pH 10.7

• Tampone cloruro di ammonio pH 10.7 • Tampon chlorure d'ammonium pH 10.7 • Tampón cloruro di ammonio pH 10.7 • Puffer Ammoniumchlorid pH 10.7

### Classification transport

ONU: 3266  
Transport Hazard class: 8  
Packing group III



### Danger

H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Ammonium chloride buffer solution pH 10.7 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614013400	1 l	Plastic bottle	Ref Ph.Eur 4013400



## Ammonium chloride buffer solution pH 10.0

• Tampone cloruro di ammonio pH 10.0 • Tampon chlorure d'ammonium pH 10.0 • Tampón cloruro di ammonio pH 10.0 • Puffer Ammoniumchlorid pH 10.0

### Classification transport

ONU: 3266  
Transport Hazard class: 8  
Packing group III



### Danger

H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Ammonium chloride buffer solution pH 10.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614007301	100 ml	Plastic bottle	Ref Ph.Eur 4007300
614007300	1 l	Plastic bottle	Ref Ph.Eur 4007300



## Ammonium chloride buffer solution pH 9.5

• Tampone cloruro di ammonio pH 9.5 • Tampon chlorure d'ammonium pH 9.5 • Tampón cloruro di ammonio pH 9.5 • Puffer Ammoniumchlorid pH 9.5

### Ammonium chloride buffer solution pH 9.5 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614007200	1 l	Plastic bottle	Ref Ph.Eur 4007200



## tri-Ammonium citrate

• Ammonio citrato tribasico • tri-Ammonium citrate • Tri-amonio citrato • tri-Ammoniumcitrat

### Synonym:

- Ammonium citrate tribasic
- Citric acid triammonium salt

$\text{HOC}(\text{CO}_2\text{NH}_4)(\text{CH}_2\text{CO}_2\text{NH}_4)_2$   
Molecular Weight: 243,22  
CAS: 3458-72-8  
EEC-N: 222-394-5



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### tri-Ammonium citrate > RE - Pure

RE

Description ..... White crystalline powder    Chloride ..... ≤ 30 ppm    Fe ..... ≤ 20 ppm  
Identification ..... Positive    Sulphate ..... ≤ 150 ppm    Assay ..... ≥ 97 %

Code	Size	Packaging	Notes
313895	25 kg	Plastic bucket	



## Ammonium citrate dibasic

• Ammonio citrato bibasico • Ammonium citrate dibasique • Amonio citrato dibásico  
• Ammoniumcitrat zweibasisch

### Synonym:

- Ammonium hydrogencitrate
- Citric acid ammonium salt

$\text{HOCCOOH}(\text{CH}_2\text{COONH}_4)_2$   
Molecular Weight: 226,18  
CAS: 3012-65-5  
EEC-N: 221-146-3



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Ammonium citrate dibasic > RPE - For analysis - ACS

RPE

Description ..... White crystals    Residue on ignition ..... ≤ 50 ppm    Oxalate ..... ≤ 500 ppm    Fe ..... ≤ 10 ppm  
Identification ..... Positive    Chloride ..... ≤ 10 ppm    Total sulphur ..... ≤ 50 ppm    Assay (acc.to Sørensen) ..... 98.0 ÷ 103.0 %  
Water-insoluble matter ..... ≤ 50 ppm    Phosphate ..... ≤ 5 ppm    Heavy metals (Pb) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
419315	250 g	Plastic bottle	
419313	500 g	Plastic bottle	
419317	1 kg	Plastic bottle	
419312	25 kg	Plastic bucket	
419316	50 kg	Fibre drum	



## Ammonium citrate solution 20%

- Ammonio citrato soluzione 20% • Ammonium citrate solution 20% • Amonio citrato solución 20%
- Ammoniumcitratlösung 20%

Synonym:  
• Ammonium hydrogencitrate  
• Citric acid ammonium salt

$\text{HOCCOOH}(\text{CH}_2\text{COONH}_4)_2$   
Molecular Weight: 226,18  
CAS: 3012-65-5



**Warning**  
H319  
P264-P280i-P305+P351+P338-P337+P313

### Ammonium citrate solution 20% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    pH of the substance ..... 7 - 7.3    Assay ..... 19 - 21 %

Code	Size	Packaging	Notes
E419361	1 l	Bottle	

**For the determination of phosphates**

Ammonium citrate tribasic ▶ tri-Ammonium citrate

Ammonium cobalt(II) sulfate hexahydrate ▶ Cobalt (II) ammonium sulfate hexahydrate

Ammonium dihydrogenphosphate ▶ Ammonium phosphate monobasic



## Ammonium fluoride

- Ammonio fluoruro • Ammonium fluorure • Amonio fluoruro • Ammoniumfluorid

$\text{NH}_4\text{F}$   
Molecular Weight: 37,04  
CAS: 12125-01-8  
EEC-N: 235-185-9

**Classification transport**  
ONU: 2505  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H311-H331  
P261-P304+P340-P311a-P330-P361+P364-P403+P233

### Ammonium fluoride > RPE - For analysis - ACS

**RPE**

Description ..... White crystals    Residue on ignition ..... ≤100 ppm    Heavy metals (Pb) ..... ≤5 ppm  
Identification ..... Positive    Chloride ..... ≤10 ppm    Fe ..... ≤5 ppm  
Water-insoluble matter ..... ≤50 ppm    Sulphate ..... ≤50 ppm    Assay (acc. to Sørensen) ..... ≥98.0 %

Code	Size	Packaging	Notes
419634	100 g	Plastic bottle	
419638	250 g	Plastic bottle	
419635	500 g	Plastic bottle	
419637	1 kg	Plastic bottle	



## Ammonium formate

- Ammonio formiato • Ammonium formiate • Amonio formiato • Ammoniumformiat

Synonym:  
Formic acid ammonium salt

$\text{HCOONH}_4$   
Molecular Weight: 63,06  
CAS: 540-69-2  
EEC-N: 208-753-9



**Warning**  
H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233

### Ammonium formate > RS - For LC/MS

**RS**

Assay ..... ≥ 98 %	As ..... ≤ 0.1 ppm	Fe ..... ≤ 3 ppm	Pb ..... ≤ 1 ppm
Impurities ..... ≤ 50 ppm	Ba ..... ≤ 1 ppm	K ..... ≤ 5 ppm	Sr ..... ≤ 1 ppm
Water ..... ≤ 0.5 %	Bi ..... ≤ 1 ppm	Li ..... ≤ 1 ppm	Zn ..... ≤ 1 ppm
pH ..... 5.5 ÷ 7.6	Ca ..... ≤ 5 ppm	Mg ..... ≤ 1 ppm	Grad. Elution H.P. Peak at 254 nm ≤ 0.001 AU
Melting point ..... 119 ÷ 121 °C	Cd ..... ≤ 1 ppm	Mn ..... ≤ 1 ppm	Grad. Elution drift at 254 nm ..... ≤ 0.005 AU
Chloride ..... ≤ 5 ppm	Co ..... ≤ 1 ppm	Mo ..... ≤ 1 ppm	T260nm (1M) ..... ≥ 97 %
Sulfate ..... ≤ 10 ppm	Cr ..... ≤ 1 ppm	Na ..... ≤ 5 ppm	Preparation ..... Filtered through 0.1
Al ..... ≤ 1 ppm	Cu ..... ≤ 1 ppm	Ni ..... ≤ 1 ppm	

Code	Size	Packaging	Notes
419741	50 g	Plastic bottle	

**Additive for eluent phase for LC-MS**



## Ammonium formate > RPE - For analysis - Reag. Ph. Eur.

**RPE**

Description .....	Colourless crystals	Water .....	≤ 0.5 %	Water-insoluble matter .....	≤ 50 ppm	Assay (acc.to Sørensen).....	≥ 98.5 %
Identification .....	Positive	Chloride.....	≤ 5 ppm	Heavy metals (Pb).....	≤ 5 ppm	Melting point.....	119 ± 121 °C
pH sol. 5% at 25° C .....	5.5 ÷ 7.0	Sulphate.....	≤ 10 ppm	Fe .....	≤ 5 ppm		

Code	Size	Packaging	Notes
419734	100 g	Plastic bottle	
419735	250 g	Plastic bottle	
419736	500 g	Plastic bottle	
419737	1 kg	Plastic bottle	
419733	25 kg	Plastic bucket	

## Ammonium heptamolybdate tetrahydrate ▶ Ammonium molybdate tetrahydrate

## Ammonium hydrogen carbonate ▶ Ammonium bicarbonate

## di-Ammonium hydrogen citrate ▶ Ammonium citrate dibasic



## Ammonium hydrogen difluoride

• Ammonio bifluoruro • Ammonium bifluorure • Amonio bifluoruro • Ammoniumhydrogendifluorid

Synonym:  
Ammonium bifluoride

NH<sub>2</sub>FHF  
Molecular Weight: 57,04  
CAS: 1341-49-7  
EEC-N: 215-676-4

**Classification transport**  
ONU: 1727  
Transport Hazard class: 8  
Packing group II



**Danger**  
H301-H314  
P280-P301+P310a-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338

## Ammonium hydrogen difluoride > RE - Pure

**RE**

Description .....	White flakes	Water (K.F).....	≤ 0.5 %	Sulphite.....	≤ 100 ppm	Fe .....	≤ 500 ppm
Identification .....	Positive	Sulphate.....	≤ 2000 ppm	Heavy metals (Pb).....	≤ 200 ppm	Assay (acidimetric) .....	≥ 94 %

Code	Size	Packaging	Notes
314261	1 kg	Plastic bottle	

## di-Ammonium hydrogenphosphate ▶ Ammonium phosphate dibasic



## Ammonium di-hydrogen phosphate 25 mg/L solution

• Ammonio diidrogeno fosfato 25 mg/l soluzione • Ammonium dihydrogénophosphate 25mg/l  
• Amonio di-Hidrógeno Fosfato solución 25 mg/l • Ammoniumdihydrogenphosphat 25 mg/l

Synonym:  
• di-Ammonium hydrogenphosphate  
• Monoammonium phosphate

NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub>  
Molecular Weight: 115,03  
CAS: 7722-76-1



**Warning**  
H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

## Ammonium di-hydrogen phosphate 25 mg/L solution > RS - Matrix modifiers for AAS-GTA

**RS**

Code	Size	Packaging	Notes
503194	50 ml	Plastic bottle	Matrix: 1% Nitric acid

## Ammonium hydroxide solution ▶ Ammonia solution 30%



## Ammonium iodide

• Ammonio ioduro • Ammonium iodure • Amonio ioduro • Ammoniumiodid

NH<sub>4</sub>I  
Molecular Weight: 144,94  
CAS: 12027-06-4  
EEC-N: 234-717-7



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Ammonium iodide > RPE - For analysis - ACS

RPE

Description ..... White granules    Chloride + bromide (Cl) ..... ≤ 50 ppm    Heavy metals (Pb)..... ≤ 10 ppm    Assay (oxidimetric) ..... ≥ 99.0 %  
Identification ..... Positive    Water-insoluble matter ..... ≤ 50 ppm    Ba ..... ≤ 20 ppm    Sulphate ..... ≤ 0.05 %  
Residue on ignition ..... ≤ 0.05 %    Phosphate ..... ≤ 10 ppm    Fe ..... ≤ 5 ppm

Code	Size	Packaging	Notes
420133	50 g	Glass bottle	
420135	250 g	Glass bottle	

Stabilized with ~1,5% of NH<sub>4</sub>H<sub>2</sub>PO<sub>2</sub>

Ammonium iron(III) citrate green ▶ Iron (III) ammonium citrate green

Ammonium iron(III) citrate red ▶ Iron (III) ammonium citrate red

Ammonium iron(III) sulfate dodecahydrate ▶ Iron (III) ammonium sulfate dodecahydrate

Ammonium iron(II) sulfate hexahydrate ▶ Iron (II) ammonium sulfate hexahydrate



## Ammonium molybdate tetrahydrate

• Ammonio molibdato tetraidrato • Ammonium molybdate tétrahydraté • Amonio molibdato tetrahidratado  
• Ammoniummolybdat tetrahydrat

Synonym:

Ammonium heptamolybdate tetrahydrate

(NH<sub>4</sub>)<sub>6</sub>Mo<sub>7</sub>O<sub>24</sub>·4H<sub>2</sub>O  
Molecular Weight: 1235,86  
CAS: 12054-85-2  
EEC-N: 234-320-9



### Warning

H302-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Ammonium molybdate tetrahydrate > RS - For microanalysis

RS

Description ..... White crystalline powder    AsO<sub>4</sub>, PO<sub>4</sub>, SiO<sub>4</sub> (SiO<sub>2</sub>) ..... ≤ 0.001 %    Heavy metals (Pb)..... ≤ 10 ppm    Assay (complexometric) ..... 81.0 ÷ 83.0 %  
Identification ..... Positive    Chloride..... ≤ 20 ppm    K..... ≤ 100 ppm  
Water-insoluble matter ..... ≤ 0.005 %    Sulphate ..... ≤ 200 ppm    Mg ..... ≤ 50 ppm  
Nitrate ..... ≤ 0.003 %    Phosphate ..... ≤ 5 ppm    Na ..... ≤ 100 ppm

Code	Size	Packaging	Notes
420391	100 g	Glass bottle	

### Ammonium molybdate tetrahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Green crystals    ppm    Sulphate ..... ≤ 200 ppm    Assay (oxidimetric) . 81.0 ÷ 83.0 % (MoO<sub>3</sub>)  
Identification ..... Positive    Chloride..... ≤ 20 ppm    Heavy metals (Pb)..... ≤ 10 ppm    Mg ..... ≤ 50 ppm  
Water-insoluble matter ..... ≤ 50 ppm    Phosphate ..... ≤ 5 ppm    K..... ≤ 100 ppm  
Arsenate, phosphate and silicate (SiO<sub>2</sub>) ≤ 10    Nitrate ..... ≤ 30 ppm    Na ..... ≤ 100 ppm

Code	Size	Packaging	Notes
420234	100 g	Glass bottle	
420236	500 g	Plastic bottle	
420238	2.5 kg	Plastic bottle	



## Ammonium molybdate solution 2.5% in nitric acid

- Ammonio molibdato soluzione 2.5% in acido nitrico • Ammonium molybdate solution 2.5% dans l'acide nitrique
- Amonio molibdato solución 2.5% en acido nítrico • Ammonium molybdat Losung 2.5 %

(NH<sub>4</sub>)<sub>6</sub>Mo<sub>7</sub>O<sub>24</sub>·4H<sub>2</sub>O  
Molecular Weight: 1235,86  
CAS: 12054-85-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Ammonium molybdate solution 2.5% in nitric acid > RPE - For analysis

**RPE**

Description ..... Clear liquid      Density at 20° C ..... 1.0 ÷ 1.2

Code	Size	Packaging	Notes
E420371	1 l	Bottle	



## Ammonium nitrate

- Ammonio nitrato • Ammonium nitrate • Amonio nitrato • Ammonsalpeter

NH<sub>4</sub>NO<sub>3</sub>  
Molecular Weight: 80,04  
CAS: 6484-52-2  
EEC-N: 229-347-8

**Classification transport**  
ONU: 1942  
Transport Hazard class: 5.1  
Packing group III



**Warning**  
H272-H319  
P210-P220-P264-P280-P305+P351+P338-  
P337+P313

### Ammonium nitrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description ..... White crystals      Residue on ignition ..... ≤ 100 ppm      Sulphate ..... ≤ 20 ppm      Acidity ..... Conform  
Identification ..... Positive      Chloride ..... ≤ 5 ppm      Heavy metals (Pb) ..... ≤ 5 ppm  
pH sol. 5% at 25° C ..... 4.5 ÷ 6.0      Phosphate ..... ≤ 5 ppm      Fe ..... ≤ 2 ppm  
Water-insoluble matter ..... ≤ 50 ppm      Nitrite ..... ≤ 5 ppm      Assay (alkalimetric) ..... ≥ 95 %

Code	Size	Packaging	Notes
420425	100 g	Plastic bottle	
420426	500 g	Plastic bottle	
420427	1 kg	Plastic bottle	
420429	5 kg	Plastic tank	
420422	25 kg	Plastic bucket	
420424	50 kg	Fibre drum	

### Ammonium nitrate > RE - Pure

**RE**

Description ..... White pearls      pH sol. 5% at 25° C ..... 4.6 ÷ 7      Total nitrogen ..... ≥ 34.2 %  
Identification ..... Positive      Residue on ignition ..... ≤ 0.5 %

Code	Size	Packaging	Notes
315509	5 kg	Plastic tank	
315502	25 kg	Plastic bucket	



## Ammonium nitrate 200 mg/l solution

- Ammonio nitrato 200 mg/l soluzione • Ammonium nitrate 200 mg/l • Amonio nitrato 200 mg/l solución • Ammonsalpeter 200 mg/l

NH<sub>4</sub>NO<sub>3</sub>  
Molecular Weight: 80,04  
CAS: 6484-52-2

HEU210

### Ammonium nitrate 200 mg/l solution > RS - Matrix modifiers for AAS-GTA

**RS**

Code	Size	Packaging	Notes
503195	50 ml	Plastic bottle	Matrix: Water



## Ammonium oxalate monohydrate

• Ammonio ossalato monoidrato • Ammonium oxalate monohydraté • Amonio oxalato monohidrato  
• Ammoniumoxalatmonohydrat

Synonym:  
Oxalic acid diammonium salt

$(\text{NH}_4)_2\text{C}_2\text{O}_4 \cdot \text{H}_2\text{O}$   
Molecular Weight: 142,11  
CAS: 6009-70-7  
EEC-N: 238-135-4



**Warning**  
H302-H312  
P264-P270-P280h-P301+P312a-P330-P501a

### Ammonium oxalate monohydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... White crystals      Residue on ignition ..... ≤200 ppm      Heavy metals (Pb) ..... ≤5 ppm  
Identification ..... Positive      Chloride ..... ≤20 ppm      Fe ..... ≤2 ppm  
Water-insoluble matter ..... ≤50 ppm      Sulphate ..... ≤20 ppm      Assay (oxidimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
420475	250 g	Plastic bottle	
420476	500 g	Plastic bottle	
420477	1 kg	Plastic bottle	
420478	2.5 kg	Plastic bottle	
420473	25 kg	Plastic bucket	



## Ammonium oxalate solution 4%

• Ammonio ossalato soluzione 4% • Ammonium oxalate solution 4% • Amonio oxalato solución 4% • Ammoniumoxalat 4%

$(\text{NH}_4)_2\text{C}_2\text{O}_4 \cdot \text{H}_2\text{O}$   
Molecular Weight: 142,11  
CAS: 6009-70-7

HEU210

### Ammonium oxalate solution 4% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Identification ..... Positive      Density at 20° C ..... 1.00 ÷ 1.02      Assay (oxidimetric) ..... 3.8 ÷ 4.2 %

Code	Size	Packaging	Notes
E420521	1 l	Bottle	



## Ammonium persulfate

• Ammonio persolfato • Ammonium persulfate • Amonio persulfato • Ammoniumpersulfat

Synonym:  
• APS  
• Ammonium peroxydisulfate

$(\text{NH}_4)_2\text{S}_2\text{O}_8$   
Molecular Weight: 228,2  
CAS: 7727-54-0  
EEC-N: 231-786-5

### Classification transport

ONU: 1444  
Transport Hazard class: 5.1  
Packing group III



### Danger

H272-H302-H315-H319-H334-H317-H335  
P210-P280-P284-P304+P340-P305+P351+P338-  
P342+P311a-P403+P233

### Ammonium persulfate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... Yellowish crystals      Water-insoluble matter ..... ≤50 ppm      Heavy metals (Pb) ..... ≤50 ppm      Assay (oxidimetric) ..... ≥98.0 %  
Identification ..... Positive      Residue on ignition ..... ≤500 ppm      Fe ..... ≤10 ppm  
Acidity (H2SO4) ..... ≤0.04 meq/g      Chloride & Chlorate(Cl) ..... ≤10 ppm      Mn ..... ≤0.5 ppm

Code	Size	Packaging	Notes
420625	100 g	Plastic bottle	
420626	500 g	Plastic bottle	
420627	1 kg	Plastic bottle	
420629	5 kg	Plastic jar	
420623	25 kg	Plastic bucket	

### Ammonium persulfate > RE - Pure

**RE**

Description ..... White crystals or yellowish      Heavy metals (Pb) ..... ≤ 50 ppm      Assay (oxidimetric) ..... ≥ 97.5 %  
Identification ..... Positive      Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
316008	500 g	Plastic bottle	
316002	25 kg	Plastic bucket	



## Ammonium phosphate dibasic

- Ammonio fosfato bibasico • Ammonium phosphate dibasique • Amonio fosfato dibásico
- Ammoniumphosphat dibasisch

Synonym:

- Ammonium hydrogen phosphate
- Diammonium hydrogenphosphate

$(\text{NH}_4)_2\text{HPO}_4$   
Molecular Weight: 132,06  
CAS: 7783-28-0  
EEC-N: 231-987-8



### Warning

H312-H332

P261-P271-P280h-P304+P340-P312a-P501a

### Ammonium phosphate dibasic > RPE - For analysis - ACS - Reag. USP

RPE

Description .....	White crystals	Sulphate .....	≤ 100 ppm	Fe .....	≤ 10 ppm	Ca .....	≤ 10 ppm
Identification .....	Positive	Chloride .....	≤ 10 ppm	K .....	≤ 50 ppm	Mg .....	≤ 5 ppm
pH sol. 5% at 25° C .....	7.7 ÷ 8.1	Nitrate .....	≤ 30 ppm	Na .....	≤ 50 ppm		
Water-insoluble matter .....	≤ 50 ppm	Heavy metals (Pb) .....	≤ 10 ppm	Assay (alkalimetric) .....	≥ 98.0 %		

Code	Size	Packaging	Notes
419835	100 g	Plastic bottle	
419836	500 g	Plastic bottle	
419837	1 kg	Plastic bottle	
419831	5 kg	Plastic tank	
419832	25 kg	Plastic bucket	
419834	50 kg	Fibre drum	

### Ammonium phosphate dibasic > RE - Pure

RE

Description .....	white crystals	pH sol. 1M .....	7.6 - 8.2	Assay (P205) .....	≥ 53.4 %	Assay (alkalimetric) .....	98 - 102 %
Identification .....	Positive	Insoluble in water .....	≤ 0.2 %	Assay (nitrogen) .....	≥ 21 %		

Code	Size	Packaging	Notes
314757	1 kg	Plastic bottle	
314758	2.5 kg	Plastic bottle	



## Ammonium phosphate monobasic

- Ammonio fosfato monobasico • Ammonium phosphate monobasique • Amonio fosfato monobásico
- Ammoniumphosphat einbasig

Synonym:

- Ammonium dihydrogenphosphate
- Monoammonium phosphate

$\text{NH}_4\text{H}_2\text{PO}_4$   
Molecular Weight: 115,03  
CAS: 7722-76-1  
EEC-N: 231-764-5

### Ammonium phosphate monobasic > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description .....	White crystals	Water-insoluble matter .....	≤ 50 ppm	Ca .....	≤ 10 ppm	Na .....	≤ 50 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤ 5 ppm	Mg .....	≤ 5 ppm	Assay (acidimetric) .....	≥ 98.0 %
pH sol. 5% at 25° C .....	3.8 ÷ 4.4	Nitrate .....	≤ 0.001 %	Fe .....	≤ 10 ppm		
Chloride .....	≤ 5 ppm	Sulphate .....	≤ 100 ppm	K .....	≤ 50 ppm		

Code	Size	Packaging	Notes
419785	100 g	Plastic bottle	
419786	500 g	Plastic bottle	
419787	1 kg	Plastic bottle	

### Ammonium phosphate monobasic > RE - Pure

RE

Appearance .....	White crystalline	(w/w)	Fluoride .....	≤ 10 ppm	Hg .....	≤ 1 ppm	
P205 .....	≥ 61.3 % (w/w)	pH (1% solution) .....	4.3 - 4.7	As .....	≤ 1 ppm	Cd .....	≤ 1 ppm
Assay (as(NH4)H2PO4) .....	98.0 - 102.2 %	Water insoluble Matter .....	≤ 0.2 % (w/w)	Pb .....	≤ 1 ppm		

Code	Size	Packaging	Notes
314507	1 kg	Plastic bottle	
314505	5 kg	Plastic tank	
314506	10 kg	Plastic tank	
314504	25 kg	Sack	

## Ammonium rhodanide ▶ Ammonium thiocyanate

## Ammonium sodium hydrogen phosphate ▶ Sodium ammonium hydrogen phosphate



### Ammonium sulfamate

• Ammonio solfamato • Ammonium sulfamate • Amonio sulfamato • Ammoniumsulfamat

$\text{NH}_4\text{SO}_3\text{NH}_2$   
Molecular Weight: 114,12  
CAS: 7773-06-0  
EEC-N: 231-871-7



#### Warning

H302  
P264-P270-P301+P312a-P330-P501a

### Ammonium sulfamate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals      Melting point ..... 131.0 ÷ 135.0 °C      Water-insoluble matter ..... ≤200 ppm      Assay (oxidimetric) ..... ≥98.0 %  
Identification ..... Positive      Residue on ignition ..... ≤0.1 %      Heavy metals (Pb) ..... ≤5 ppm

Code	Size	Packaging	Notes
420724	100 g	Glass bottle	
420725	500 g	Glass bottle	



### Ammonium sulfate

• Ammonio solfato • Ammonium sulfate • Amonio solfato • Ammoniumsulfat

Synonym:  
*Mascagnite*

$(\text{NH}_4)_2\text{SO}_4$   
Molecular Weight: 132,14  
CAS: 7783-20-2  
EEC-N: 231-984-1



#### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Ammonium sulfate > RPE - For analysis - ISO - Reag.Ph.Eur.

RPE

Description ..... White crystals      Water-insoluble matter ..... ≤50 ppm      Phosphate ..... ≤5 ppm      Fe ..... ≤5 ppm  
Identification ..... Positive      Residue on ignition ..... ≤100 ppm      Nitrate ..... ≤10 ppm      Assay (acc.to Sørensen) ..... ≥99.0 %  
pH sol. 5% at 25° C ..... 5.0 ÷ 6.0      Chloride ..... ≤5 ppm      Heavy metals (Pb) ..... ≤5 ppm

Code	Size	Packaging	Notes
420775	100 g	Plastic bottle	
420776	500 g	Plastic bottle	
420777	1 kg	Plastic bottle	
420772	5 kg	Plastic tank	
420771	25 kg	Plastic bucket	
420774	50 kg	Fibre drum	

### Ammonium sulfate > RE - Pure

RE

Description ..... White crystals      Chloride ..... ≤ 3 ppm      Ca ..... ≤ 10 ppm      Residue on calcination ..... ≤ 0.01 % (S04)  
Identification ..... Positive      Nitrate ..... ≤ 10 ppm      Fe ..... ≤ 5 ppm      Assay ..... ≥ 99.0 %  
pH sol. 5% at 20°C ..... 5 ÷ 6      Phosphate ..... ≤ 5 ppm      Heavy metals (Pb) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
316257	1 kg	Plastic bottle	
316251	5 kg	Plastic tank	
316252	25 kg	Plastic bucket	





## Ammonium sulfide solution 20%

• Ammonio solfuro soluzione 20% • Ammonium sulfure en solution à 20% • Amonio sulfuro solución 20% • Ammoniumsulfid in 20% iger Lösung

(NH<sub>4</sub>)<sub>2</sub>S  
Molecular Weight: 68,141  
CAS: 12135-76-1  
EEC-N: 235-223-4

**Classification transport**  
ONU: 2683  
Transport Hazard class: 8  
Packing group II



**Danger**  
H225-H301-H314-HEU031  
P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Ammonium sulfide solution 20% > RPE - For analysis

RPE

Description .....	Yellow clear liquid	Residue on ignition.....	≤50 ppm	Fe .....	≤5 ppm	Sb.....	≤5 ppm
Identification .....	Positive	Sulphate.....	≤100 ppm	K.....	≤10 ppm	Sn.....	≤5 ppm
Density at 15° C .....	0.960 ÷ 1.000	As.....	≤1 ppm	Mg.....	≤5 ppm	Zn.....	≤5 ppm
Carbonate.....	≤50 ppm	Ca.....	≤30 ppm	Na.....	≤50 ppm	Assay (ex ammonium) .....	≥20 %
Chloride.....	≤50 ppm	Cd.....	≤5 ppm	Ni.....	≤5 ppm	Assay (argentimetric).....	≥20 %
Heavy metals (Pb).....	≤10 ppm	Cu.....	≤5 ppm	Pb.....	≤5 ppm		

Code	Size	Packaging	Notes
421101	1 l	Glass bottle	



## Ammonium L(+)-tartrate

• Ammonio L(+)-tartrato • Ammonium L(+)-tartrate • Amonio L(+)-tartrato • Ammoniumtartrat

Synonym:  
• L-(+)-Tartaric acid diammonium salt  
• Diammonium tartrate

(CHOHCOONH<sub>4</sub>)<sub>2</sub>  
Molecular Weight: 184,15  
CAS: 3164-29-2  
EEC-N: 221-618-9

### Ammonium L(+)-tartrate > RPE - For analysis

RPE

Description .....	White crystalline powder	Sulfated ashes .....	≤ 0.02 %	Water insoluble Matter.....	≤ 0.005 %	Heavy metals (as Pb) .....	≤ 0.0005 %
Identification .....	Positive	Phosphate .....	≤ 0.001 %	Chloride.....	≤ 0.001 %		
Assay (acidimetric) .....	≥ 99.0 %	Fe .....	≤ 0.0005 %	Sulfate.....	≤ 0.005 %		

Code	Size	Packaging	Notes
421206	500 g	Plastic bottle	



## Ammonium thiocyanate

• Ammonio solfocianuro • Ammonium thiocyanate • Amonio sulfocianuro • Ammoniumthiocyanat

Synonym:  
Ammonium rhodanide

NH<sub>4</sub>SCN  
Molecular Weight: 76,12  
CAS: 1762-95-4  
EEC-N: 217-175-6



**Warning**  
H302-H312-H332-HEU032  
P261-P264-P271-P280h-P301+P312a-P304+P340

### Ammonium thiocyanate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description .....	White crystals	Water-insoluble matter .....	≤50 ppm	Chloride.....	≤50 ppm	Fe .....	≤3 ppm
Identification .....	Positive	Residue on ignition.....	≤250 ppm	Sulphate.....	≤50 ppm	Assay (argentimetric).....	≥97.5 %
pH sol. 5% at 25° C .....	4.5 ÷ 6.0	Reducing iodine .....	≤0.004 meq/g	Heavy metals (Pb).....	≤5 ppm		

Code	Size	Packaging	Notes
420885	250 g	Plastic bottle	
420886	500 g	Plastic bottle	
420887	1 kg	Plastic bottle	

### Ammonium thiocyanate > RE - Pure

RE

Description .....	White crystals	Sulphated ash.....	≤ 0.03 %	Sulphate.....	≤ 50 ppm	Assay (argentimetric).....	≥ 99 %
Identification .....	Positive	S.....	≤ 20 ppm	Fe .....	≤ 2 ppm		

Code	Size	Packaging	Notes
316307	1 kg	Plastic bottle	
316308	5 kg	Plastic tank	
316303	25 kg	Plastic bucket	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z



## Ammonium thiocyanate 1 mol/l (1N)

• Ammonio solfocianuro 1 mol/l (1N) • Ammonium thiocyanate 1 mol/l (1N) • Amonio sulfocianuro 1 mol/l (1N) • Ammoniumthiocyanat 1 mol/l (1N)

NH<sub>4</sub>SCN  
CAS: 1762-95-4

### Ammonium thiocyanate 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.998 - 1.002 N

Code	Size	Packaging	Notes
420946	500 ml	Plastic bottle	

**76,12 g of NH<sub>4</sub>SCN. Volumetric solution ready-to-use: 1 N. Stabilized with p-oxybenzoate**



## Ammonium thiocyanate 0.1 mol/l (0.1N)

• Ammonio solfocianuro 0.1 mol/l (0.1N) • Ammonium thiocyanate 0.1 mol/l (0.1N) • Amonio sulfocianuro 0.1 mol/l (0.1N) • Ammoniumthiocyanat 0.1 mol/l (0.1N)

NH<sub>4</sub>SCN  
Molecular Weight: 76,12  
CAS: 1762-95-4

### Ammonium thiocyanate 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000501	500 ml	Plastic bottle	Ref Ph.Eur 3000500
613000500	1 l	Plastic bottle	Ref Ph.Eur 3000500

### Ammonium thiocyanate 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.998 - 1.002 N

Code	Size	Packaging	Notes
420977	1 l	Plastic bottle	

**7,612 g of NH<sub>4</sub>SCN. Volumetric solution ready-to-use: 0,1 N. Stabilized with p-oxybenzoate**

### Ammonium thiocyanate 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
421001		Plastic ampoule	Volume: 55 ml

**7,612 g of NH<sub>4</sub>SCN. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



## Ammonium thiocyanate 0.01 mol/l (0.01N)

• Ammonio solfocianuro 0.01 mol/l (0.01N) • Ammonium thiocyanate 0.01 mol/l (0.01N) • Amonio sulfocianuro 0.01 mol/l (0.01N) • Ammoniumthiocyanat 0.01 mol/l (0.01N)

NH<sub>4</sub>SCN  
Molecular Weight: 76,12  
CAS: 1762-95-4

### Ammonium thiocyanate 0.01 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
421061		Plastic ampoule	Volume: 55 ml

**0,7612 g of NH<sub>4</sub>SCN. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**



## n-Amyl alcohol

• Alcole n-amílico • Alcool n-amilyque • Alcohol n-amílico • n-Amylalkohol

Synonym:

- 1-Pentanol
- Pentyl alcohol

$\text{CH}_3(\text{CH}_2)_3\text{CH}_2\text{OH}$   
Molecular Weight: 88,15  
CAS: 71-41-0  
EEC-N: 200-752-1

**Classification transport**  
ONU: 1105  
Transport Hazard class: 3  
Packing group III



### Warning

H226-H332-H315-H335  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### n-Amyl alcohol > RPE - For analysis

RPE

Description .....	Clear colourless liquid	Boiling point.....	136 - 138 °C	Cu.....	≤0.05 ppm	Na.....	≤1 ppm
Identification .....	Positive	Water (K.F).....	≤0.2 %	Fe.....	≤0.5 ppm	Pb.....	≤0.1 ppm
Density at 25°C .....	~ 0.811	Residue on evaporation .....	≤10 ppm	K.....	≤0.5 ppm	Zn.....	≤0.5 ppm
Refractive index at 20°C.....	1.4081 ÷ 1.4121	Ca.....	≤0.5 ppm	Mg.....	≤0.5 ppm	Assay (GLC).....	≥99 %

Code	Size	Packaging	Notes
413783	1 l	Glass bottle	

### n-Amyl alcohol > RE - Pure

RE

Description .....	Clear colourless liquid	Density at 20° C .....	0.815 ÷ 0.819	Water (K.F).....	≤0.2 %
Identification .....	Positive	Refractive index at 20°C.....	1.4061 ÷ 1.4141	Assay (GLC).....	≥98.5 %

Code	Size	Packaging	Notes
307901	1 l	Glass bottle	



## tert-Amyl alcohol

• Alcole ter-amílico • Alcool tert-amilyque • Alcohol ter-amílico • 2-Methylbutanol-2

Synonym:

- Tert-pentyl alcohol
- 2-Methyl-2-butanol

$(\text{CH}_3)_2\text{C}(\text{OH})\text{CH}_2\text{CH}_3$   
Molecular Weight: 88,151  
CAS: 75-85-4  
EEC-N: 200-908-9

**Classification transport**  
ONU: 1105  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H332-H315-H335  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### tert-Amyl alcohol > RPE - For analysis

RPE

Description .....	Clear colourless liquid	Boiling point.....	101.3 ÷ 102.8 °C	Alcalinity (NH3).....	≤5 ppm	Subst. reducing KMnO4.....	≤200 ppm
Identification .....	Positive	Residue on evaporation .....	≤10 ppm	Indole base .....	≤0.1 ppm	Cu.....	≤0.5 ppm
Ready carbonizable substances.....	Conform	Acids and esthers.....	≤500 ppm	Organic base (N) .....	≤7 ppm	Fe .....	≤0.5 ppm
Density at 20° C .....	0.808 ÷ 0.810	Acidity(valerianic.ac).....	≤50 ppm	Carbonyl Compounds (CO).....	≤80 ppm	Assay (GLC).....	≥99.5 %
Refractive index at 20°C.....	1.4027 ÷ 1.4077	Water (K.F).....	≤0.2 %	Pyridine and homologues.....	≤30 ppm		

Code	Size	Packaging	Notes
413941	250 ml	Glass bottle	
413944	1 l	Glass bottle	
413945	25 l	Plastic tank	



## Aniline blue soluble in water

• Blu anilina solubile in acqua • Bleu d'aniline soluble dans l'eau • Azul de anilina soluble en agua • Blaues Anilin. wasserlöslich

$\text{C}_{32}\text{H}_{25}\text{N}_3\text{Na}_2\text{O}_9\text{S}_3$   
Molecular Weight: 737,74  
CAS: 28631-66-5  
EEC-N: 249-113-9



### Warning

H302-H312-H332  
P261-P264-P271-P280h-P301+P312a-P304+P340

### Aniline blue soluble in water > RPE - For analysis - C.I. 42755

RPE

Description .....

Code	Size	Packaging	Notes
428582	25 g	Glass bottle	

**Dye for microscopy (botanical-cytology-histology). Indicator acid - base (pH 9.4 ÷ 14.0)**

**Aniline hydrochloride**

• Anilina cloridrato • Aniline chlorhydrate • Anilina cloridrato • Aniliniumchlorid

$C_6H_5NH_2 \cdot HCl$   
 Molecular Weight: 129,59  
 CAS: 142-04-1  
 EEC-N: 205-519-8

**Classification transport**  
 ONU: 1548  
 Transport Hazard class: 6.1  
 Packing group III

**Danger**

H301-H311-H331-H318-H317-H341-H351-  
 H372-H400  
 P280-P304+P340-P305+P351+P338-P308+P313-  
 P330-P361+P364-P403+P233

**Aniline hydrochloride > RPE - For analysis****RPE**

Description ..... White crystalline powder    Identification ..... Positive    Melting point ..... 196 ÷ 199 °C    Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
422376	500 g	Plastic bottle	

**Anisaldehyde**

• Aldeide anisica • Aldéhyde anisique • Aldehído anísico • Anisaldehyd

## Synonym:

- *p*-Anisaldehyde
- 4-Methoxybenzaldehyde

$4-CH_3OC_6H_4CHO$   
 Molecular Weight: 136,15  
 CAS: 123-11-5  
 EEC-N: 204-602-6

**Warning**

H302  
 P264-P270-P301+P312a-P330-P501a

**Anisaldehyde > RE - Pure****RE**

Description ..... Clear yellow liquid    Density at 20° C ..... 1.121 ÷ 1.125    Assay (GLC) ..... ≥99 %  
 Identification ..... Positive    Refractive index at 20°C ..... 1.5710 ÷ 1.5750

Code	Size	Packaging	Notes
415312	100 ml	Glass bottle	

**Anisaldehyde solution**

• Aldeide anisica soluzione • Aldéhyde anisique solution • Aldehído anísico solución • Anisaldehydlösung

**Classification transport**

ONU: 1993

**Anisaldehyde solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611007301	100 ml	Glass bottle	Ref Ph.Eur 1007301
611007302	100 ml	Glass bottle	Anisaldehyde solution R1 Ref Ph.Eur 1007302

**Anisic acid**

• Acido anísico • Acide anisique • Acido anísico • Anissäure

## Synonym:

- 4-Methoxybenzoic acid
- Draconic acid

$CH_3OC_6H_4COOH$   
 Molecular Weight: 152,15  
 CAS: 100-09-4  
 EEC-N: 202-818-5

**Warning**

H302-H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

**Anisic acid > RPE - For analysis****RPE**

Description .... White to slightly grey - beige powder    Identification ..... Positive    Melting point ..... 181 ÷ 186 °C    Assay (GLC) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
402133	100 g	Glass bottle	



## Anthrone

• Antrone • Anthrone • Antrona • Anthron

Synonym:  
9(10H)-Anthracenone

$C_6H_4COC_6H_4CH_2$   
Molecular Weight: 194,23  
CAS: 90-44-8  
EEC-N: 201-994-0



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Anthrone > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Yellow crystals      Melting point..... 151 - 159 °C      Solub.ty in Dieth.Ether ..... Conform  
Identification ..... Positive      Absorbance of reag.sol ..... Conform      Sens. to carbohydrates ..... Conform

Code	Size	Packaging	Notes
423281	10 g	Glass bottle	
423282	25 g	Glass bottle	

**For the determination of carbohydrates**



## Antimony standard solution

• Antimonio standard soluzione • Antimoine standard solution • Antimonio, solución patrón • Antimonstandardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group II



### Danger

H290-H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Antimony standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000400	100 ml	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5000400

### Antimony standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505832	100 ml	Plastic bottle	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid
505835	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid
505833	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Antimony standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503891	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503893	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503895	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
503897	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
503899	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
503898	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrofluoric acid and nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Antimony standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507525	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
507479	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
E497415	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497411	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Antimony standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
422731		Plastic ampoule	conc. 1.000 ppm Matrix: Hydrochloric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

**Antimony potassium tartrate**

• Antimonio potassio tartrato • Antimoine potassium tartrate • Antimonio y potasio tartrato  
• Antimon-Kalium-Tartrat

Synonym:  
*Potassium antimonyl tartrate*

$C_4H_2KO_6Sb_6 \cdot 1,5H_2O$   
Molecular Weight: 333,93  
CAS: 28300-74-5  
EEC-N: 234-293-3

**Classification transport**

ONU: 1551  
Transport Hazard class: 6.1  
Packing group III

**Warning**

H302-H332-H411  
P261-P264-P271-P301+P312a-P304+P340-P501a

**Antimony potassium tartrate > RPE - For analysis - Reag. Ph. Eur.**

RPE

Description ..... White crystalline powder Chloride ..... ≤ 0.005 % Loss on drying (105°C) ..... ≤ 2.7 %  
Identification ..... Positive Fe ..... ≤ 0.001 % As ..... ≤ 0.015 %  
pH sol. 2% at 20°C ..... 3.8 - 4.5 Water insoluble substances ..... ≤ 0.05 % Assay (iodometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
423035	250 g	Plastic bottle	
423036	500 g	Plastic bottle	
423037	1 kg	Plastic bottle	

**Antimony trichloride**

• Antimonio triclorigo • Antimoine trichlorure • Antimonio triclorigo • Antimontrichlorid

Synonym:  
*Antimony(III) chloride*

$SbCl_3$   
Molecular Weight: 228,11  
CAS: 10025-91-9

**Classification transport**

ONU: 2922  
Transport Hazard class: 8  
Packing group II

**Danger**

H302-H332-H314-H351-H361d-H335-H372-H412-  
HEU301  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

**Antimony trichloride > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611007701	100 ml	Glass bottle	Ref Ph.Eur 1007701

**Antimony trichloride > RPE - For analysis - ACS**

RPE

Description ..... White crystals Sulphate ..... ≤ 50 ppm Cu ..... ≤ 10 ppm Na ..... ≤ 200 ppm  
Identification ..... Positive As ..... ≤ 200 ppm Fe ..... ≤ 20 ppm Pb ..... ≤ 50 ppm  
Chloroform insoluble ..... ≤ 500 ppm Ca ..... ≤ 50 ppm K ..... ≤ 100 ppm Assay (iodometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
422834	100 g	Glass bottle	
422835	250 g	Glass bottle	





## Aqueous calcium hydroxide

• Acqua di calce • Eau de chaux • Calcio hidróxido acuoso • Kalkwasser

### Aqueous calcium hydroxide > RPE - For analysis

**RPE**

Description ..... Clear liquid Identification ..... Positive Assay ..... 0.140 ÷ 0.169 % (p/p)

Code	Size	Packaging	Notes
E411921	1 l	Plastic bottle	



## L(+)-Arginine

• L(+)-Arginina • L(+)-Arginine • L(+)-Arginina • L(+)-Arginin

Synonym:  
(S)-2-Amino-5-guanidinopentanoic acid

$C_6H_{14}N_4O_2$   
Molecular Weight: 174,2  
CAS: 74-79-3  
EEC-N: 200-811-1



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### L(+)-Arginine > RPE - For analysis

**RPE**

Description ..... White crystalline powder Melting point .....  $\geq 230$  ° C Assay (non-aqueous medium) .....  $\geq 98$  %  
Identification ..... Positive Specific optical rotation .....  $+26.3 \div +27.7$  °

Code	Size	Packaging	Notes
424271	100 g	Glass bottle	



## L(+)-Arginine monohydrochloride

• L(+)-Arginina monocloridrato • L(+)-Arginine monochlorhydratée • L(+)-Arginina monoclorhidrato  
• L-Argininmonohydrochlorid

Synonym:  
(S)-(+)-2-Amino-5-[(aminoiminomethyl)amino]pentanoic acid monohydrochloride

$C_6H_{14}N_4O_2 \cdot HCl$   
Molecular Weight: 210,66  
CAS: 1119-34-2  
EEC-N: 214-275-1



### Warning

H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### L(+)-Arginine monohydrochloride > RPE - For analysis

**RPE**

Description ..... White powder Loss on drying .....  $\leq 0.2$  % Heavy metals (Pb) .....  $\leq 10$  ppm Fe .....  $\leq 10$  ppm  
Identification ..... Positive Ammonium .....  $\leq 200$  ppm Residue on ignition .....  $\leq 0.1$  % Assay (non-aqueous medium) ..... 98.5 ÷ 101.0 % s.s.  
Potere rotat. spec. (c=8; HCl 6N) .....  $+21.4 \div +23.5$  ° s.s. Water-insoluble matter .....  $\leq 100$  ppm Sulphate .....  $\leq 300$  ppm

Code	Size	Packaging	Notes
424268	5 g	Glass bottle	



## Arsenazo III

• Arsenazo III • Arsenazo III • Arsenazo III • Arsenazo III

Synonym:  
2,7-Bis(2-arsonophenylazo)chromotropic acid

$C_{22}H_{16}As_2N_4O_{14}S_2Na_2$   
Molecular Weight: 774,36  
CAS: 1668-00-4  
EEC-N: 216-788-6

### Classification transport

ONU: 3465  
Transport Hazard class: 6.1  
Packing group II



### Danger

H301-H331-H410  
P261-P271-P304+P340-P311a-P330-P403+P233

### Arsenazo III > RPE - For analysis

**RPE**

Description ..... Brown granular powder Identification ..... Positive Sens.as complex.indicat ..... Conform

Code	Size	Packaging	Notes
424281	1 g	Glass bottle	
424282	25 g	Glass bottle	

**Suitable for determination of Th, Zr, U, Cd, Zn, Ca**

**Arsenic standard solution**

• Arsenico standard soluzione • Arsenic standard solution • Arsenic, solución patrón • Arsen-Standardlösung

**Danger**

H350-HA26

P201-P202-P280-P308+P313-P405-P501a

**Arsenic standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615000501	100 ml	Plastic bottle	A 1 ppm solution: to dilute according to Ref Ph.Eur 5000501
615000509	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5000500

**Arsenic standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505312	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505315	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505313	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Arsenic standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503421	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503423	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503425	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503427	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Arsenic standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
504439	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507496	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Arsenic trioxide solution**

• Arsenico triossido soluzione • Arsenic trioxyde solution • Arsénico trióxido solución • Arsenitrioxid-Lösung

Synonym:

- Arsenic(III) oxide
- Arsenic trioxide

As<sub>2</sub>O<sub>3</sub>

Molecular Weight: 197,84

CAS: 1327-53-3

**Arsenic trioxide solution > RS - For analysis according to JP**

RS

Code	Size	Packaging	Notes
616000001	100 ml	Plastic bottle	Arsenic (III) stock solution

**Arsenic trioxide solution > RS - For analysis according to USP**

RS

Code	Size	Packaging	Notes
617000001	100 ml	Plastic bottle	Arsenic trioxyde stock solution



## L(+)*Ascorbic acid*

• Acido L(+)*ascorbico* • Acide L(+)*ascorbique* • Acido L(+)*ascórbico* • L(+)-*Ascorbinsäure*

### Synonym:

- *Vitamin C*
- *L-Threoascorbic acid*

COCOH:COHCHCHOHCH<sub>2</sub>OH

Molecular Weight: 176,13

CAS: 50-81-7

EEC-N: 200-066-2

### L(+)*Ascorbic acid* > RPE - For analysis - ISO

RPE

Description .....	White crystal. powder	Loss on drying .....	≤ 0.1 %	Residue on ignition .....	≤ 300 ppm	Pb .....	≤ 0.5 ppm
Identification .....	Positive	Chloride .....	≤ 50 ppm	Sulphate .....	≤ 20 ppm	Assay (oxidimetric) .....	≥ 99.0 %
Melting point .....	190.5 ÷ 192.0 °C	Water-insoluble matter .....	≤ 30 ppm	Cu .....	≤ 0.3 ppm		
Specific optical rotation...	+20.5 ÷ +21.5 °	Heavy metals (Pb) .....	≤ 10 ppm	Fe .....	≤ 2 ppm		

Code	Size	Packaging	Notes
402404	100 g	Plastic bottle	
402406	500 g	Plastic bottle	
402407	1 kg	Plastic bottle	



## L(+)*Asparagine*

• L(+)*Asparagina* • L(+)*Asparagine* • L(+)*Asparagina* • L(+)*Asparagin*

### Synonym:

- (S)-(+)-2-*Aminosuccinamic acid*
- *L-Aspartic acid 4-amide*

C<sub>4</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>·H<sub>2</sub>O

Molecular Weight: 150,14

CAS: 5794-13-8

### L(+)*Asparagine* > RPE - For analysis

RPE

Description .....	White crystalline powder	Residue on ignition .....	≤ 0.1 %	Ammonium .....	≤ 0.1 % (s.s.)
Identification (I.R.) .....	Positive	Heavy metals (Pb) .....	≤ 10 ppm	Chloride .....	≤ 0.02 %
Specific optical rotation...	+33.5 ÷ +36.5 °	As .....	≤ 1 ppm	Sulphate .....	≤ 0.03 %
Loss on drying .....	11.5 ÷ 12.5 %	Fe .....	≤ 10 ppm	Assay (non-aqueous medium)	98.5 ÷ 101.0 %

Code	Size	Packaging	Notes
424544	100 g	Glass bottle	
424547	1 kg	Plastic bottle	



## L(+)*Aspartic acid*

• Acido L(+)*aspartico* • Acide L(+)*aspartique* • Acido L(+)*aspártico* • L(+)*Asparaginsäure*

### Synonym:

- (S)-(+)-*Aminosuccinic acid*
- *L-Aminobutanedioic acid*

HOOCCHNH<sub>2</sub>CH<sub>2</sub>COOH

Molecular Weight: 133,1

CAS: 56-84-8

EEC-N: 200-291-6

### L(+)*Aspartic acid* > RE - Pure

RE

Description .....	White crystalline powder	Loss on drying .....	≤ 0.2 %	Sulphate .....	≤ 300 ppm	Heavy metals (Pb) .....	≤ 10 ppm
Identification .....	Positive	Ammonium .....	≤ 500 ppm	As .....	≤ 1 ppm	Residue on ignition .....	≤ 0.1 %
Potere rotat. spec. (c=8; HCl 6N) .....	+24 ÷ +26 °	Chloride .....	≤ 200 ppm	Fe .....	≤ 10 ppm	Assay (non-aqueous medium)	≥ 98.0 % (s.s.)

Code	Size	Packaging	Notes
402442	25 g	Glass bottle	

**ASTM colour standards**

• Standard del colore ASTM • Etalons couleurs ASTM • Patrones de color ASTM • ASTM-Farbstandards

**Danger**H315-H304  
P264-P280g-P301+P310a-P331-P362+P364-  
P332+P313**ASTM colour standards > RS - For calibration****RS**

Code	Size	Packaging	Notes
540601	100 ml	Glass bottle	Sample A1
540602	100 ml	Glass bottle	Sample A3
540603	100 ml	Glass bottle	Sample A5
540604	100 ml	Glass bottle	Sample A7

**Ausilab 110**

• Ausilab 110 • Ausilab 110 • Ausilab 110 • Ausilab 110

**Warning**H319-HEU208  
P264-P280i-P305+P351+P338-P337+P313**Ausilab 110 > RE - Pure - For glassware manual washing****RE**

Code	Size	Packaging	Notes
FG201149	4 x 5 kg	Plastic tank	

**Multi-purpose detergent concentrate liquid, neutral. Contains: Anionic surfactants (15-30%), less than 5% emollients. Use: diluted in water, very foaming****Ausilab 140**

• Ausilab 140 • Ausilab 140 • Ausilab 140 • Ausilab 140

**Danger**H315-H318  
P264-P280a-P305+P351+P338-P310a-P362+P364-  
P332+P313**Ausilab 140 > RE - Pure - For glassware manual washing****RE**

Code	Size	Packaging	Notes
FG201220	4 x 5 kg	Plastic tank	

**Degreaser concentrate, liquid, alkaline. Contains: EDTA and salts (5-15%), non-ionic surfactants (5-15%). Use: diluted in water****Ausilab 210**

• Ausilab 210 • Ausilab 210 • Ausilab 210 • Ausilab 210

**Danger**H315-H318  
P264-P280a-P305+P351+P338-P310a-P362+P364-  
P332+P313**Ausilab 210 > RE - Pure - For glassware washers****RE**

Code	Size	Packaging	Notes
FG201138	8 kg	Plastic bucket	

**Detergent for glassware washers, powder, alkaline (suitable for use in the food industry). Contains: over than 30% of phosphates, less than 5% non-ionic surfactants. Use: concentration as dirt and water hardness**



## Ausilab 250

• Ausilab 250 • Ausilab 250 • Ausilab 250 • Ausilab 250



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Ausilab 250 > RE - Pure - For glassware washers

RE

Code	Size	Packaging	Notes
FG201139	4 x 5 kg	Plastic tank	

**Neutralizing detergent for glassware washers, liquid, acid. Contains: over than 30% of organics acids. Use: for washers with automatic metering**



## Ausilab 260

• Ausilab 260 • Ausilab 260 • Ausilab 260 • Ausilab 260

NaCl  
Molecular Weight: 58,44  
CAS: 7647-14-5

### Ausilab 260 > RE - Pure - For glassware washers

RE

Code	Size	Packaging	Notes
FG20C1156C5	5 kg	Plastic bucket	

**Regenerating salt for dishwashers**



## Ausilab 280

• Ausilab 280 • Ausilab 280 • Ausilab 280 • Ausilab 280

### Classification transport

ONU: 1719  
Transport Hazard class: 8  
Packing group III



### Danger

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Ausilab 280 > RE - Pure - For glassware washers

RE

Code	Size	Packaging	Notes
FG201151	4 x 5 kg	Plastic tank	

**Dishwashing detergent, liquid, alkaline (suitable for use in the food industry). Contains: over than 30% E.D.T.A., NaOH (5-15%). Use: For dishwashers with automatic metering**



## Ausilab 290

• Ausilab 290 • Ausilab 290 • Ausilab 290 • Ausilab 290

### Classification transport

ONU: 1719  
Transport Hazard class: 8  
Packing group III



### Danger

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Ausilab 290 > RE - Pure - For glassware washers

RE

Code	Size	Packaging	Notes
FG201200	4 x 6 kg	Plastic tank	

**Dishwashing detergent, liquid, alkaline, manufactured according to Ecocert standard. Contains: over than 30% Citrates and gluconates, NaOH (5-15%). Use: For dishwashers with automatic metering**



## Ausilab 400

• Ausilab 400 • Ausilab 400 • Ausilab 400 • Ausilab 400

**Classification transport**  
ONU: 1987  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H319-H412  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

### Ausilab 400 > RE - Pure - For hand washing cream

RE

Code	Size	Packaging	Notes
FG201146	6 x 800 ml	Box	

**Alcoholic sanitizing gel, neutral. Contains: over 50% than alcohols, moisturizing agents (5-15%), benzalkonium chloride (0-1%). Use: Pure**



## Ausilab 500

• Ausilab 500 • Ausilab 500 • Ausilab 500 • Ausilab 500



**Danger**  
H315-H318-HEU208  
P264-P280a-P305+P351+P338-P310a-P362+P364-  
P332+P313

### Ausilab 500 > RE - Pure - For washing

RE

Code	Size	Packaging	Notes
FG201140	15 x 750 ml	Box	

**Purpose cleaner. Contains between 5 and 15% of alcohols, less than 5% non-ionic surfactants. Use: Direct spray of pure product**



## Azomethine H

• Azometina H • Azométhine H • Azometino H • Azomethin H

Synonym:  
4-Hydroxy-5-(2-hydroxybenzylideneamino)-  
naphthalene-2,7-disulfonic acid monosodium salt  
hydrate

$C_{17}H_{12}NNaO_8S_2 \cdot xH_2O$   
Molecular Weight: 445,4  
CAS: 206752-32-1



**Warning**  
H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Azomethine H > RPE - For analysis

RPE

Description ..... Yellow orange powder Identification ..... Positive

Code	Size	Packaging	Notes
424691	10 g	Glass bottle	
424692	25 g	Glass bottle	

**Suitable for the determination of boron**



## Azure II

• Azzurro II • Azur II • Azur II • Azur II

CAS: 37247-10-2  
**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H318  
P280i-P305+P351+P338-P310a

### Azure II > RS - For microscopy - C.I. 52010/52015

RS

Description ..... Polvere nera con riflessi verdi Maximum absorption ..... 645 ÷ 650 nm Loss on drying at 110°C ..... ≤ 15 %  
Identification ..... Positive E 1% / 1 cm on dried substance ..... 1850 ÷ 2100

Code	Size	Packaging	Notes
424721	5 g	Glass bottle	

**Dye for bacteriology and hematology. Mix Azur - methylene blue**





## Azure II eosin

• Azzurro II eosina • Azur II Eosine • Azur II Eosina • Azur II Eosin

Synonym:

*Azure II eosinate*

CAS: 53092-85-6

### Classification transport

ONU: 2811

Transport Hazard class: 6.1

Packing group III



### Danger

H332-H318

P261-P271-P280i-P304+P340-P310a-

P305+P351+P338

## Azure II eosin > RS - For microscopy - C.I. 52010/52015/45380

RS

Description .....	Dark blue powder	Maximum absorption lambda max	1645.0 ÷ 1000	Spec. absorption (E1%/1cm) lambda max	≥ 400
Identification .....	Positive	655.0 nm	Maximum absorption lambda max	2515.0 ÷ 525.0 nm	
Loss on drying (110°C).....	≤ 10 %	Spec. absorption (E1%/1cm) lambda max	1 ≥ 525.0 nm		

Code	Size	Packaging	Notes
424731	5 g	Glass bottle	

**Dye for bacteriology, hematology histopathology. Mix Azur - Methylene blue - eosin**



## Barbituric acid

• Acido barbiturico • Acide barbiturique • Acido barbitúrico • Barbitursäure

Synonym:

2,4,6-Trihydroxypyrimidine

NHCONHCOCH<sub>2</sub>CO  
Molecular Weight: 128,12  
CAS: 67-52-7  
EEC-N: 200-658-0

### Barbituric acid > RPE - For analysis - Reag. Ph. Eur.

RPE

Description ..... White crystalline powder Identification ..... Positive Melting point..... 250 ÷ 256 ° C Assay (acidimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
402532	25 g	Glass bottle	
402535	250 g	Glass bottle	



## Barium standard solution

• Bario standard soluzione • Baryum standard solution • Bario, solución patrón • Barium-Standardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Warning

H290  
P234-P390-P406

### Barium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000601	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5000601
615000609	100 ml	Plastic bottle	A 50 ppm solution: to dilute according to Ref Ph.Eur 5000600

### Barium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505327	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505328	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505329	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Barium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503451	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503453	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503455	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
503457	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Barium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507527	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507481	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497445	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497441	500 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Barium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
424861		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Barium acetate

• Bario acetato • Baryum acétate • Bario acetato • Bariumacetat

Ba(CH<sub>3</sub>COO)<sub>2</sub>  
Molecular Weight: 255,42  
CAS: 543-80-6  
EEC-N: 208-849-0



### Warning

H302-H332  
P261-P264-P271-P301+P312a-P304+P340-P501a

## Barium acetate > RPE - For analysis - ACS

RPE

K ..... ≤ 30 ppm Water-insoluble matter ..... ≤ 100 ppm Heavy metals (Pb) ..... ≤ 5 ppm Fe ..... ≤ 10 ppm  
Description ..... White crystalline powder Oxidizing subst.(NO<sub>3</sub>) ..... ≤ 50 ppm Ca ..... ≤ 500 ppm Sr ..... ≤ 0.2 %  
Identification ..... Positive Chloride ..... ≤ 10 ppm Na ..... ≤ 50 ppm Assay (complexometric) ..... 99.0 ÷ 102.0 %

Code	Size	Packaging	Notes
424895	100 g	Plastic bottle	
424896	500 g	Plastic bottle	
424897	1 kg	Plastic bottle	



## Barium carbonate

• Bario carbonato • Baryum carbonate • Bario carbonato • Bariumcarbonat

BaCO<sub>3</sub>  
Molecular Weight: 197,34  
CAS: 513-77-9  
EEC-N: 208-167-3



### Warning

H302  
P264-P270-P301+P312a-P330-P501a

## Barium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur.

RPE

Description ..... White powder Oxidizing subst.(NO<sub>3</sub>) ..... ≤ 50 ppm Ca ..... ≤ 500 ppm K ..... ≤ 50 ppm  
Identification ..... Positive Chloride ..... ≤ 20 ppm Fe ..... ≤ 20 ppm Sr ..... ≤ 0.7 %  
Water-soluble titrable base ..... ≤ 0.002 meq/g Sulphide ..... ≤ 10 ppm Assay (alkalimetric) ..... 99.0 ÷ 101.0 %  
HCl-insoluble matter ..... ≤ 150 ppm Heavy metals (Pb) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
424945	250 g	Plastic bottle	
424943	25 kg	Plastic bucket	

## Barium carbonate > RE - Pure

RE

Description ..... Hazel-white powder Identification ..... Positive Fe ..... ≤ 50 ppm Assay (alkalimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
321507	1 kg	Plastic bottle	
321502	25 kg	Plastic bucket	



## Barium chloride dihydrate

• Bario cloruro diidrato • Baryum chlorure dihydraté • Bario cloruro dihidratado • Bariumchlorid-Dihydrat

BaCl<sub>2</sub>  
Molecular Weight: 208,23  
CAS: 10361-37-2

**Classification transport**  
ONU: 1564  
Transport Hazard class: 6.1  
Packing group III



### Danger

H301-H332-H319  
P261-P271-P301+P310a-P304+P340-P305+P351+P338-P337+P313

## Barium chloride dihydrate > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611009300	100 g	Glass bottle	Ref Ph.Eur 1009300

## Barium chloride dihydrate > RPE - For analysis - ACS

**RPE**

Appearance .....	White crystalline powder	Ca .....	≤ 0.05 %	Na .....	≤ 0.005 %	Loss on drying .....	14.0 - 16.0 %
pH .....	5.2 - 8.2	Fe .....	≤ 2 ppm	Heavy metals (as Pb) .....	≤ 5 ppm	Insoluble matter .....	≤ 0.005 %
BaCl <sub>2</sub> ·2H <sub>2</sub> O .....	≥ 99.0 %	Sr .....	≤ 0.1 %	K .....	≤ 0.0025 %	Oxidizing substances (as NO <sub>3</sub> ) ..	≤ 0.005 %

Code	Size	Packaging	Notes
425025	100 g	Plastic bottle	
425026	500 g	Plastic bottle	
425027	1 kg	Plastic bottle	
425029	5 kg	Plastic jar	
425022	25 kg	Plastic bucket	

## Barium chloride dihydrate > RE - Pure

**RE**

Description .....	White crystals	Identification .....	Positive	Assay (argentimetric) .....	≥ 98 %
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Code	Size	Packaging	Notes
321757	1 kg	Plastic bottle	
321758	5 kg	Plastic tank	
321752	25 kg	Plastic bucket	



## Barium chloride solution 10%

• Bario cloruro soluzione 10% • Baryum chlorure solution 10% • Bario cloruro solución 10% • Bariumchlorid 10%

BaCl<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 244,27  
CAS: 10326-27-9



### Warning

H302-H319  
P264-P280i-P301+P312a-P305+P351+P338-  
P337+P313-P501a

## Barium chloride solution 10% > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Identification .....	Positive	Density at 15° C .....	1.08 ÷ 1.10	Assay (argentimetric) .....	9.5 ÷ 10.5 %
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Code	Size	Packaging	Notes
E425101	1 l	Plastic bottle	

**Suitable for water analysis**



## Barium chloride 0.1 mol/l (0.2N)

• Bario cloruro 0.1 mol/l (0.2N) • Baryum chlorure 0.1 mol/l (0.2N) • Bario cloruro 0.1 mol/l (0.2N) • Bariumchlorid 0.1 mol / l (0.2 N)

BaCl<sub>2</sub>·2H<sub>2</sub>O  
CAS: 10326-27-9

HEU210

## Barium chloride 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613000600	1 l	Plastic bottle	Ref Ph.Eur 3000600



## Barium chloride solution 61 g/l

• Bario cloruro soluzione 61 g/l • Baryum chlorure 61g/l • Bario cloruro solución 61 g/l • Bariumchlorid 61 g/l

BaCl<sub>2</sub>  
Molecular Weight: 208,25  
CAS: 10361-37-2

## Barium chloride solution 61 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611009303	100 ml	Plastic bottle	Barium chloride solution R1 Ref Ph.Eur 1009301
611009309	250 ml	Plastic bottle	Barium chloride solution R1 Ref Ph.Eur 1009301
611009301	1 l	Plastic bottle	Barium chloride solution R1 Ref Ph.Eur 1009301



## Barium chloride 30 g/l

• Bario cloruro 30 g/l • Baryum chlorure 30 g/l • Bario cloruro 30 g/l • Bariumchlorid 30 g/l

BaCl<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 244,27  
CAS: 10326-27-9

### Barium chloride 30 g/l > RS - For analysis according to JP

RS

Code	Size	Packaging	Notes
616001018	100 ml	Plastic bottle	Barium chloride TS

### Barium chloride 30 g/l > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000161	100 ml	Plastic bottle	Barium chloride TS



## Barium chromate

• Bario cromato • Baryum chromate • Bario cromato • Bariumchromat

BaCrO<sub>4</sub>  
Molecular Weight: 253,33  
CAS: 10294-40-3  
EEC-N: 233-660-5

**Classification transport**  
ONU: 1479  
Transport Hazard class: 5.1  
Packing group II



**Warning**  
H272-H302-H332  
P210-P220-P261-P271-P280-P304+P340

### Barium chromate > RE - Pure

RE

Description ..... Yellow powder    HCl-insoluble matter ..... ≤ 0.1 %    Fe ..... ≤ 20 ppm  
Identification ..... Positive    Chloride ..... ≤ 100 ppm    Assay (oxidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
425245	250 g	Glass bottle	



## Barium hydroxide octahydrate

• Bario idrossido ottaidrato • Baryum hydroxyde octahydraté • Bario hidróxido octahidrato • Bariumhydroxid-Octahydrat

Ba(OH)<sub>2</sub>·8H<sub>2</sub>O  
Molecular Weight: 315,48  
CAS: 12230-71-6  
EEC-N: 241-234-5

**Classification transport**  
ONU: 1564  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H302-H314-HEU071  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Barium hydroxide octahydrate > RPE - For analysis

RPE

Description ..... White crystals    Chloride ..... ≤10 ppm    Sulphide ..... ≤5 ppm    Sr ..... ≤1.5 %  
Identification ..... Positive    HCl-insoluble matter ..... ≤50 ppm    Ca ..... ≤50 ppm    Assay (alkalimetric) ..... ≥98.0 %  
Carbonate ..... ≤2.0 %    Heavy metals (Pb) ..... ≤5 ppm    Fe ..... ≤5 ppm

Code	Size	Packaging	Notes
425295	100 g	Plastic bottle	
425296	500 g	Plastic bottle	
425297	1 kg	Plastic bottle	
425292	25 kg	Plastic bucket	

### Barium hydroxide octahydrate > RE - Pure

RE

Description ..... White crystals    Chloride ..... ≤500 ppm    Fe ..... ≤50 ppm  
Identification ..... Positive    HCl-insoluble matter ..... ≤500 ppm    Assay (alkalimetric) ..... ≥95 %

Code	Size	Packaging	Notes
322007	1 kg	Plastic bottle	
322009	5 kg	Plastic tank	
322001	25 kg	Plastic bucket	
322004	50 kg	Plastic bucket	



## Barium hydroxide solution 5%

• Bario idrossido soluzione 5% • Baryum hydroxyde solution 5% • Bario hidróxido solución 5% • Bariumhydroxidlösung 5%

Ba(OH)<sub>2</sub>·8H<sub>2</sub>O  
Molecular Weight: 315,48  
CAS: 12230-71-6

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Barium hydroxide solution 5% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Density at 20° C ..... ≥1.03    Assay ..... 4.7 ÷ 5.3 % (p/p)

Code	Size	Packaging	Notes
E425301	1 l	Bottle	



## Barium hydroxide solution 47.3 g/l

• Bario idrossido soluzione 47.3 g/l • Baryum hydroxyde solution 47.3 g/l • Bario hidróxido solución 47.3 g/l • Bariumhydroxidlösung 47.3 g / l

Ba(OH)<sub>2</sub>·8H<sub>2</sub>O  
Molecular Weight: 315,48  
CAS: 12230-71-6

### Barium hydroxide solution 47.3 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611009409	250 ml	Plastic bottle	Ref Ph.Eur 1009401
611009401	1 l	Plastic bottle	Ref Ph.Eur 1009401



## Barium nitrate

• Bario nitrato • Baryum nitrate • Bario nitrato • Bariumnitrat

Ba(NO<sub>3</sub>)<sub>2</sub>  
Molecular Weight: 261,34  
CAS: 10022-31-8  
EEC-N: 233-020-5

**Classification transport**  
ONU: 1446  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H301-H332-H319  
P210-P261-P271-P280-P304+P340-  
P305+P351+P338

### Barium nitrate > RPE - For analysis - ACS

**RPE**

Description ..... White crystals    pH sol. 5% at 25° C ..... 5.0 ÷ 8.0    Fe ..... ≤ 5 ppm    Assay ..... ≥ 99.0 %  
Identification ..... Positive    Chloride ..... ≤ 10 ppm    Ca ..... ≤ 0.005 %    Heavy metals (Pb) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
425342	500 g	Plastic bottle	
425347	1 kg	Plastic bottle	
425341	25 kg	Plastic bucket	



## Barium perchlorate trihydrate

• Bario perclorato triidrato • Baryum perchlorate trihydraté • Bario perclorato trihidrato • Bariumperchlorat-trihidrat

Ba(ClO<sub>4</sub>)<sub>2</sub>·3H<sub>2</sub>O  
Molecular Weight: 390,29  
CAS: 10294-39-0  
EEC-N: 236-710-4

**Classification transport**  
ONU: 1447  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H271-H302-H332  
P210-P261-P271-P280-P283-P304+P340

### Barium perchlorate trihydrate > RPE - For analysis

**RPE**

Description ..... White crystals    Water-insoluble matter ..... ≤100 ppm    Cu ..... ≤25 ppm    Pb ..... ≤25 ppm  
Identification ..... Positive    Methyl alcohol insolub ..... ≤100 ppm    Fe ..... ≤3 ppm    Sr ..... ≤0.6 %  
Total nitrogen ..... ≤20 ppm    Heavy metals (Pb) ..... ≤5 ppm    K ..... ≤100 ppm    Zn ..... ≤20 ppm  
Chlorate ..... ≤300 ppm    Substances not ppt. H<sub>2</sub>S ..... ≤0.1 %    Na ..... ≤100 ppm    Assay (complexometric) ..... ≥99.8 %  
Chloride ..... ≤10 ppm    Ca ..... ≤100 ppm    Ni ..... ≤25 ppm

Code	Size	Packaging	Notes
425411	50 g	Glass bottle	



**Barium perchlorate 0.05 mol/l**  
 • Bario perclorato 0.05 mol/l • Baryum perchlorate 0.05 mol/l • Bario perclorato 0.05 mol/l • Bariumperchlorat 0.05 mol/l

Ba(ClO<sub>4</sub>)<sub>2</sub>  
 Molecular Weight: 336,23  
 CAS: 13465-95-7

**Classification transport**  
 ONU: 2924  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H315-H319  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P332+P313

**Barium perchlorate 0.05 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
61300700	1 l	Plastic bottle	Ref Ph.Eur 3000700

**Barium perchlorate 0.025 mol/l**  
 • Bario perclorato 0.025 mol/l • Baryum perchlorate 0.025 mol/l • Bario perclorato 0.025 mol/l • Bariumperchlorat 0.025 mol/l  
 Synonym: *Barium diperchlorate*

Ba(ClO<sub>4</sub>)<sub>2</sub>  
 Molecular Weight: 336,23  
 CAS: 13465-95-7

**Classification transport**  
 ONU: 2924  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H315-H319  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P332+P313

**Barium perchlorate 0.025 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613009601	500 ml	Plastic bottle	Ref Ph.Eur 3009600

**Barium sulfate**  
 • Bario solfato • Baryum sulfate • Bario solfato • Bariumsulfat  
 Synonym: *Baryte*

BaSO<sub>4</sub>  
 Molecular Weight: 233,4  
 CAS: 7727-43-7  
 EEC-N: 231-784-4

**Barium sulfate > RPE - For analysis**

RPE

Description .....	White powder	Total nitrogen .....	≤30 ppm	Silicate .....	≤20 ppm	Na .....	≤500 ppm
Identification .....	Positive	Chloride .....	≤300 ppm	As .....	≤1 ppm	Ni .....	≤5 ppm
Organic substances .....	Conform	Phosphate .....	≤10 ppm	Cd .....	≤5 ppm	Pb .....	≤5 ppm
Loss on ignition .....	≤1.5 %	Heavy metals (Pb) .....	≤10 ppm	Cu .....	≤5 ppm	Zn .....	≤10 ppm
Acidity (H <sub>2</sub> SO <sub>4</sub> ) .....	≤100 ppm	Soluble barium salts .....	≤50 ppm	Fe .....	≤20 ppm	Assay (complexometric) .....	≥97 %
Alkalinity (Ba idroside) .....	≤40 ppm	Soluble salts .....	≤0.2 %	K .....	≤100 ppm		

Code	Size	Packaging	Notes
425497	1 kg	Plastic bottle	

**Barium sulfate > RE - Pure**

RE

Description .....	White powder	Chloride .....	≤0.1 %	Subst. reducing KMnO <sub>4</sub> .....	≤40 ppm(10m)
Identification .....	Positive	Phosphate .....	≤200 ppm	Fe .....	≤20 ppm
Loss on ignition .....	≤2 %	Nitrate .....	≤50 ppm	Zn .....	≤20 ppm

Code	Size	Packaging	Notes
322607	1 kg	Plastic bottle	

Baryte ► Barium sulfate

Basic violet 3 ► Crystal violet

Basic Violet 14 ► Fuchsin basic



## Benedict's reagent

• Benedict reattivo • Réactif de Bénédict • Reactivo de Benedict • Reagenz von Benedict

H412  
P273-P501a

### Benedict's reagent > RS - For microscopy

RS

Description ..... Clear blue liquid Identification ..... Positive

Code	Size	Packaging	Notes
E425742	1 l	Glass bottle	

**Suitable for the determination of glucose**



## Benzaldehyde

• Aldeide benzoica • Aldéhyde benzoïque • Aldehído benzoico • Benzaldehyd

Synonym:  
Bitter almond

$C_6H_5CHO$   
Molecular Weight: 106,12  
CAS: 100-52-7  
EEC-N: 202-860-4

**Classification transport**  
ONU: 1990  
Transport Hazard class: 9  
Packing group III



**Warning**  
H302  
P264-P270-P301+P312a-P330-P501a

### Benzaldehyde > RPE - For analysis - Reag. Ph. Eur.

RPE

Description ..... Clear colorless to pale yellow Refractive index at 20°C ..... 1.5440 ÷ 1.5460 Assay (GLC) ..... ≥ 99.0 %  
Identification ..... Positive Acidity (benzoic acid) ..... ≤ 0.5 %

Code	Size	Packaging	Notes
415362	500 ml	Glass bottle	



## Benzalkonium chloride

• Benzalconio cloruro • Benzalkonium chlorure • Benzalconio cloruro • Benzalkoniumchlorid

Synonym:  
Alkylbenzyltrimethylammonium chloride

$C_6H_5CH_2N(CH_3)_3Cl$   
Molecular Weight: 365  
CAS: 63449-41-2  
EEC-N: 264-151-6

**Classification transport**  
ONU: 3259  
Transport Hazard class: 8  
Packing group II



**Danger**  
H302-H312-H314-H400  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P362+P364

### Benzalkonium chloride > ERBApharm - According to pharmacopoeia: NF

ERBApharm

Description ..... Polvere o polvere gelatinosa Water not sol. matter ..... Conform NF Rapporto dei comp. alchilici (HPLC) Conform Residue on calcination ..... ≤ 2.0 %  
bianco-giallognolo Ammine estranee ..... Conform NF NF Assay ..... 97.0 ÷ 103.0 % s.s.  
Identification ..... Positive Water ..... ≤ 15.0 %

Code	Size	Packaging	Notes
322737	1 kg	Plastic bottle	
322738	5 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

### Benzalkonium chloride > RE - Pure

RE

Description ..... Yellow liqui-solid Aspetto soluzione 1% ..... Conform Sulphated ash ..... ≤ 0.1 %  
Identification ..... Positive Water (K.F.) ..... ≤ 10 % Assay (non-aqueous medium) ..... 98.5 ÷ 103.0 % (s.s.)

Code	Size	Packaging	Notes
322721	250 g	Plastic bottle	



## Benzene

• Benzene • Benzène • Benceno • Benzol

$C_6H_6$

Molecular Weight: 78,11

CAS: 71-43-2

EEC-N: 200-753-7

### Classification transport

ONU: 1114

Transport Hazard class: 3

Packing group II



### Danger

H225-H310-H315-H319-H340-H350-H372-H304-HA26

P210-P241-P280-P301+P310a-P303+P361+P353-P305+P351+P338

### Benzene > RPE - For analysis - ACS

RPE

Description ..... Clear liquid      Ready carbonizable substances..... Conform      Residue on evaporation ..... ≤10 ppm      Total sulphur ..... ≤5 ppm  
 Colour (APHA) ..... ≤10      Water (K.F) ..... ≤500 ppm      Tiophene ..... Conform      Assay (GLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
426113	2.5 l	Glass bottle	



## Benzene-d6

• Benzene-d6 • Benzène-d6 • Benceno-d6 • Benzol-d6

Synonym:

Hexadeuterobenzene

$C_6D_6$

Molecular Weight: 84,07

CAS: 1076-43-3

EEC-N: 214-061-8

### Classification transport

ONU: 1114

Transport Hazard class: 3

Packing group II



### Danger

H225-H301-H311-H330-H350-HA26

P210-P280-P284-P303+P361+P353-P304+P340-P403+P233

### Benzene-d6 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5089	10 x 0.75 ml	Glass ampoule	
P5085	25 ml	Glass bottle	
P5086	100 ml	Glass bottle	

For specifications, contact our customer service for a certificate of analysis

## Benzenemethanol ▶ Benzyl alcohol



## Benzenesulfonyl chloride

• Benzenesolfonile cloruro • Benzène sulfonyle chlorure • Bencenosulfonilo cloruro • Benzolsulfonylchlorid

$C_6H_5SO_2Cl$

Molecular Weight: 176,62

CAS: 98-09-9

EEC-N: 202-636-6

### Classification transport

ONU: 2225

Transport Hazard class: 8

Packing group III



### Danger

H302-H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Benzenesulfonyl chloride > RPE - For analysis

RPE

Description ..... Clear colourless liquid      Density at 20° C ..... ~ 1.377      Melting point ..... 15 ÷ 17 ° C  
 Identification ..... Positive      Refractive index at 20°C ..... ~ 1.552      Assay ..... ≥99 %

Code	Size	Packaging	Notes
426231	10 ml	Glass bottle	

For derivatization

## Benzethonium chloride ▶ Hyamine 1622



## Benzoic acid

• Acido benzoico • Acide benzoïque • Acido benzóico • Benzoessäure

$C_6H_5COOH$   
Molecular Weight: 122,12  
CAS: 65-85-0  
EEC-N: 200-618-2



### Danger

H315-H318-H372  
P260-P264-P305+P351+P338-P310a-P362+P364-P332+P313

### Benzoic acid > RS - For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000200	100 g	Plastic bottle	Ref Ph.Eur 2000200

### Benzoic acid > RS - Standard for volumetry

RS

Description ..... White crystalline powder Identification ..... Positive Assay (acidimetric) ..... ≥99.8 %

Code	Size	Packaging	Notes
402621	10 g	Glass bottle	

### Benzoic acid > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder Subst. reducing  $KMnO_4$  ..... Conform Sulphur compounds ..... ≤ 0.002 %  
Identification (I.R.) ..... Positive Heavy metals (Pb) ..... ≤ 5 ppm Residue on calcination ..... ≤ 0.005 %  
Insol. in alcol metilico ..... ≤ 0.005 % Chlorinated compounds ..... ≤ 0.005 % Assay (acidimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
402636	100 g	Plastic bottle	
402635	250 g	Plastic bottle	
402637	1 kg	Plastic bottle	

### Benzoic acid > ERBApharm - According to pharmacopeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description ..... White crystalline powder Oxidizing substances ..... Conform Ph.Eur. Halogenated and halides ..... ≤300 ppm Residual solvents (Current ICH) ..... Conform  
Identification ..... Positive Freezing point .....  $121 \div 123$  °C Heavy metals (Pb) ..... ≤10 ppm  
Appearance of solution ..... Conform Ph.Eur. Water (K.F.) ..... ≤0.7 % Assay (acidimetric) .....  $99.5 \div 100.5$  %s.s.  
Carbonizable substances ..... Conform Ph.Eur. Sulphated ash ..... ≤0.05 % Origin (BSE/TSE) ..... Synthesis

Code	Size	Packaging	Notes
302087	1 kg	Plastic bottle	
302089	5 kg	Plastic tank	
302082	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Benzoic acid benzyl ester ► Benzyl benzoate



## p-Benzoquinone

• p-Benzochinone • p-Benzoquinone • p-benzoquinona • p-Benzochinon

Synonym:  
Quinone

$C_6H_4O_2$   
Molecular Weight: 108,09  
CAS: 106-51-4  
EEC-N: 203-405-2

### Classification transport

ONU: 2587  
Transport Hazard class: 6.1  
Packing group II



### Danger

H301-H331-H315-H319-H335-H400  
P304+P340-P311a-P305+P351+P338-P330-  
P362+P364-P403+P233

### p-Benzoquinone > RPE - For analysis

RPE

Description ..... Yellow-green powder Melting point .....  $112.0 \div 116.0$  °C Assay (iodometric) ..... ≥ 98.5 %  
Identification ..... Positive Water ..... ≤ 0.5 %

Code	Size	Packaging	Notes
436853	50 g	Glass bottle	
436854	100 g	Plastic bottle	

**For spectrophotometric microdetermination of amines**

	<b>Benzyl alcohol</b>	Synonym: <i>Benzenemethanol</i>
	• Alcole benzilico • Alcool benzylique • Alcohol bencílico • Benzylalkohol	

C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OH  
Molecular Weight: 108,14  
CAS: 100-51-6  
EEC-N: 202-859-9



**Warning**  
H302-H312-H332-H319  
P261-P264-P271-P304+P340-P305+P351+P338-P337+P313

### Benzyl alcohol > RPE - For analysis - Stabilized with 0,02% BHA

**RPE**

Description .....	Clear colourless liquid	Boiling point.....	204.9 ÷ 205.9 °C	Benzaldehyde(GLC) .....	≤0.1 %	Peroxides (H2O2) .....	≤10 ppm
Identification (I.R.).....	Conform	Acidity (benzoic acid).....	≤200 ppm	Total chlorine .....	≤50 ppm	Residue on ignition.....	≤20 ppm
Water miscibility.....	Conform	Water (K.F.).....	≤0.1 %	Carbonyl Compounds (CO) .....	≤100 ppm	Fe .....	≤10 ppm
Refractive index at 20°C.....	1.5376 ÷ 1.5416	Alcalinity (NaOH).....	≤34 ppm	Heavy metals (Pb).....	≤5 ppm	Assay (GLC) .....	≥99.5 %

Code	Size	Packaging	Notes
414052	1 l	Glass bottle	

Store between 2-8 °C

### Benzyl alcohol > RPE - For analysis

**RPE**

Description .....	Clear liquid	Density at 20° C .....	~ 1.04	Water (K.F.).....	≤0.1 %	Assay (GLC) .....	≥99.8 %
Colour (APHA).....	≤10	Refractive index at 20° C.....	~ 1.54	Total chlorine .....	≤100 ppm		
Identification .....	Positive	Boiling point.....	204.5 ÷ 205.5 °C	Benzaldehyde .....	≤0.1 %		

Code	Size	Packaging	Notes
414022	1 l	Glass bottle	
414024	2.5 l	Glass bottle	

Store between 2-8 °C

### Benzyl alcohol > ERBapharm - According to pharmacopoeia: BP-FU-NF-Ph.Eur.-Ph.Franc.

**ERBapharm**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.538 ÷ 1.541	Solubility.....	Conform Ph. Eur.	0.3 %	
Identification .....	Positive	Residue on evaporation .....	≤500 ppm	Cyclohexylmethanol (GLC).....	≤0.10 %	Assay (acidimetric) .....	98.0 ÷ 100.5 %
Appearance of solution .....	Conform Ph.Eur.	Analogous subst. GLC.....	Conform Ph.Eur.	Peaks sum rel.ret. less than C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> OH ≤	0.04 %		
Acidity .....	Conform Ph.Eur.	Benzaldehyde (GLC) .....	≤0.15 %	Peaks sum rel.ret. great than C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> OH≤			
Density at 20° C .....	1.043 ÷ 1.049	Peroxide value.....	≤5				

Code	Size	Packaging	Notes
308131	1 l	Glass bottle	
308132	2.5 l	Glass bottle	
308138	23 kg	Drum	
308137	200 l	Drum	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade

	<b>Benzyl benzoate</b>	Synonym: <i>Benzoic acid benzyl ester</i>
	• Benzile benzoato • Benzyle benzoate • Bencilo benzoato • Benzylbenzoat	

C<sub>6</sub>H<sub>5</sub>COOCH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>  
Molecular Weight: 212,25  
CAS: 120-51-4  
EEC-N: 204-402-9



**Warning**  
H302-H411  
P264-P270-P301+P312a-P330-P391-P501a

### Benzyl benzoate > RPE - For analysis

**RPE**

Description .....	Clear liquid	Refractive index at 20°C.....	1.5651 ÷ 1.5711	Acidity (benzoic acid) .....	≤ 0.12 %
Identification .....	Positive	Melting point.....	18.6 ÷ 20.2 °C	Carbonyl Compounds (CO).....	≤ 0.04 %
Density at 20°C .....	1.118 ÷ 1.122	Water (K.F.).....	≤ 0.05 %	Assay (GLC) .....	≥ 99 %

Code	Size	Packaging	Notes
426761	250 ml	Glass bottle	
426763	1 l	Glass bottle	

**Benzyl benzoate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP****ERBApharm**

Description .....	Clear colourless liquid	Organic volatile impurities Conform USP-NF	Refractive index at 20°C.....	1.568 ÷ 1.570	Sulphated ash.....	≤ 0.1 %	
Identification .....	Positive	Density at 20° C .....	1.118 ÷ 1.122	Freezing point .....	≥ 17.0 ° C	Assay (alkalimetric).....	99.0 ÷ 100.5 %
Acidity .....	Conform Ph.Eur.	Density at 25° C .....	1.116 ÷ 1.120	Aldehyde .....	≤ 0.05 %		

Code	Size	Packaging	Notes
323101	1 l	Glass bottle	
323102	2.5 l	Glass bottle	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

**Beryllium standard solution**

• Berillio standard soluzione • Beryllium standard solution • Berilio, solución patrón • Beryllium-Standardlösung

**Classification transport**

ONU: 1760  
Transport Hazard class: 8  
Packing group II

**Beryllium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505332	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505335	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505333	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

**Beryllium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503461	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503463	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

**Beryllium standard solution > RS - Standard solution for AAS****RS**

Code	Size	Packaging	Notes
506941	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507497	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

**Bismarck brown R**

• Bruno Bismarck R • Brun Bismarck R • Pardo de Bismarck R • Bismarck brown R

$C_{21}H_{24}N_8 \cdot 2HCl$   
Molecular Weight: 461,39  
CAS: 8005-78-5  
EEC-N: 232-341-8

**Warning**

H302-H312-H332  
P261-P264-P271-P280h-P301+P312a-P304+P340

**Bismarck brown R > RS - For microscopy - C.I. 21010****RS**

Description .....

Brown powder Identification .....

Positive E 1% / 1 cm a 460 nm.....

≥250 Loss on drying (110°C).....

≤10 %

Code	Size	Packaging	Notes
431252	25 g	Glass bottle	

*Dye for bacteriology, histology*





## Bismuth, granules

• Bismuto, granelli • Bismuth, granules • Bismuto, gránulos • Wismut, Granulat

Bi  
Molecular Weight: 208,98  
CAS: 7440-69-9  
EEC-N: 231-177-4

### Bismuth, granules > RPE - For analysis

RPE

Description .....Metallic granules Identification ..... Positive Melting point..... ~ 272 °C

Code	Size	Packaging	Notes
428064	100 g	Glass bottle	



## Bismuth standard solution

• Bismuto standard soluzione • Bismuth standard solution • Bismuto, solución patrón • Wismut-Standardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group II



### Danger

H290-H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Bismuth standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615005300	100 ml	Plastic bottle	A 100 ppm solution: to dilute according to Ref Ph.Eur 5005300

### Bismuth standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505337	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505338	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505339	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Bismuth standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503471	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503473	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503475	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503477	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Bismuth standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507528	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507482	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497455	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497451	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Bismuth standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
428071		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package****Bismuth(III) carbonate basic**

- Bismuto carbonato basico • Bismuth (III) carbonate basique • Bismuto (III) carbonato basico
- Wismut (III) basisches Carbonat

Synonym:  
*Bismuth subcarbonate*

(BiO)<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 509,97  
CAS: 5892-10-4  
EEC-N: 227-567-9

**Bismuth(III) carbonate basic > RPE - For analysis**

RPE

Description ..... Yellowish powder Ag ..... ≤ 25 ppm Pb ..... ≤ 20 ppm Chloride ..... ≤ 0.05 %  
 Identification ..... Positive As ..... ≤ 5 ppm Assay (complexometric) ..... 97.6 ÷ 100.7 % Nitrate ..... ≤ 0.4 %  
 Loss on drying ..... ≤ 1.0 % Cu ..... ≤ 50 ppm Alkaly-alkaline earth ..... ≤ 1.0 %

Code	Size	Packaging	Notes
428103	50 g	Glass bottle	
428105	250 g	Plastic bottle	

**Bismuth(III) nitrate basic**

- Bismuto nitrato basico • Bismuth (III) nitrate basique • Bismuto (III) nitrato basico
- Wismut (III) nitrat basisch

Synonym:  
*Bismuth subnitrate*

Bi<sub>5</sub>O(OH)<sub>9</sub>(NO<sub>3</sub>)<sub>4</sub>  
Molecular Weight: 1461,99  
CAS: 1304-85-4  
EEC-N: 215-136-8

**Classification transport**  
ONU: 1477  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H315-H319-H335  
P210-P261-P280-P304+P340-P305+P351+P338-  
P403+P233

**Bismuth(III) nitrate basic > RPE - For analysis - Reag. Ph. Eur.**

RPE

Description ..... White powder Identification ..... Positive Assay (Bi) ..... 71.0 - 74.0 %

Code	Size	Packaging	Notes
428294	100 g	Glass bottle	

**Bismuth(III) nitrate basic > RPE - For analysis**

RPE

Description ..... White powder Chloride ..... ≤ 200 ppm Ag ..... ≤ 25 ppm Pb ..... ≤ 30 ppm  
 Identification ..... Positive Assay (Bi) ..... 71.0 - 74.0 % Cu ..... ≤ 50 ppm

Code	Size	Packaging	Notes
428284	100 g	Glass bottle	
428286	500 g	Glass bottle	

**For Dragendorff reagent**

## **Bismuth(III) nitrate pentahydrate** • Bismuto (III) nitrato pentaidrato • Bismuth (III) nitrate pentahydraté • Bismuto (III) nitrato pentahidratado • Wismut (III) nitratpentahydrat

Bi(NO<sub>3</sub>)<sub>3</sub>·5H<sub>2</sub>O  
 Molecular Weight: 485,07  
 CAS: 10035-06-0  
 EEC-N: 233-791-8

**Classification transport**  
 ONU: 1477  
 Transport Hazard class: 5.1  
 Packing group II



**Danger**  
 H272-H315-H319-H335  
 P210-P261-P280-P304+P340-P305+P351+P338-  
 P403+P233

### Bismuth(III) nitrate pentahydrate > RPE - For analysis

**RPE**

Description ..... White crystals or crystalline powder  
 Identification ..... Positive  
 Chloride..... ≤ 10 ppm

Insoluble matter (in Nitric Acid) .. ≤ 0.005 %  
 Sulphate..... ≤ 50 ppm  
 Ag..... ≤ 10 ppm  
 As..... ≤ 10 ppm

Cu..... ≤ 20 ppm  
 Fe..... ≤ 10 ppm  
 Ni..... ≤ 10 ppm  
 Pb..... ≤ 10 ppm

Zn..... ≤ 10 ppm  
 Ca..... ≤ 20 ppm  
 Mg..... ≤ 10 ppm  
 Assay..... ≥ 98.0 %

Code	Size	Packaging	Notes
428234	100 g	Glass bottle	
428236	500 g	Glass bottle	

### Bismuth(III) nitrate pentahydrate > RE - Pure

**RE**

Description ..... White crystals  
 Identification ..... Positive

Chloride..... ≤ 350 ppm  
 Sulphate..... ≤ 600 ppm

As..... ≤ 10 ppm  
 Assay (complexometric)..... ≥ 98 %

Code	Size	Packaging	Notes
324185	250 g	Glass bottle	

## **N,O-Bis(trimethylsilyl)acetamide** • N,O-Bis (trimetilsilil)acetammide • N,O-Bis(triméthylsilyl)acétamide • N,O-Bis (trimetilsilil) acetamida • N,O-Bis (trimethylsilyl) acetamid

Synonym:  
 BSA

CH<sub>2</sub>C[NSi(CH<sub>3</sub>)<sub>3</sub>]OSi(CH<sub>3</sub>)<sub>3</sub>  
 Molecular Weight: 203,43  
 CAS: 10416-59-8  
 EEC-N: 233-892-7

**Classification transport**  
 ONU: 1993  
 Transport Hazard class: 3  
 Packing group III



**Warning**  
 H226-H302  
 P210-P241-P264-P280-P303+P361+P353-  
 P403+P235

### N,O-Bis(trimethylsilyl)acetamide > RPE - For analysis

**RPE**

Description ..... Clear yellow liquid  
 Identification ..... Positive  
 Density at 20° C ..... ~ 0.835  
 Assay (GC)..... ≥ 97 %

Code	Size	Packaging	Notes
489934	25 ml	Glass bottle	

**For derivatization**

## **N,O-Bis(trimethylsilyl)-trifluoroacetamide** • N,O-Bis (trimetilsilil)trifluoroacetammide • N,O-Bis(triméthylsilyl)trifluoroacétamide • N,O-Bis (trimetilsilil) trifluoroacetamida • N,O-Bis-(trimethylsilyl) trifluoroacetamid

Synonym:  
 BSTFA

C<sub>8</sub>H<sub>18</sub>F<sub>3</sub>NOSi<sub>2</sub>  
 Molecular Weight: 257,39  
 CAS: 25561-30-2  
 EEC-N: 247-103-9

**Classification transport**  
 ONU: 2920  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H226-H314  
 P210-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

### N,O-Bis(trimethylsilyl)-trifluoroacetamide > RPE - For analysis

**RPE**

Description ..... Yellow clear liquid  
 Identification ..... Positive  
 Density at 20° C ..... ≤ 0.985  
 Assay (GLC)..... ≥ 98 %

Code	Size	Packaging	Notes
489561	25 ml	Glass bottle	

**For derivatization**



## Biuret 97%

• Biureto 97% • Biuret 97% • Biuret 97% • Biuret 97%

Synonym:

- *Allophanic acid amide*
- *Carbamoyl urea*

$\text{NH}_2\text{CONHCONH}_2$   
Molecular Weight: 103,08  
CAS: 108-19-0  
EEC-N: 203-559-0



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Biuret 97% > RS - For microscopy

RS

Description ..... White crystalline powder Identification ..... Positive Water (K.F.) ..... ≤ 2 %

Code	Size	Packaging	Notes
428432	25 g	Glass bottle	



## Biuret reagent

• Biureto reattivo • Réactif au biuret • Biuret reattivo • Biuret-Reagenz

Synonym:

- *Allophanic acid amide*
- *Carbamoyl urea*

$\text{NH}_2\text{CONHCONH}_2$   
Molecular Weight: 103,08  
CAS: 108-19-0  
EEC-N: 203-559-0



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Biuret reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611011601	1 l	Plastic bottle	Biuret reagent Ref Ph.Eur 1011601



## Boric acid

• Acido borico • Acide borique • Acido bórico • Borsäure

$\text{H}_3\text{BO}_3$   
Molecular Weight: 61,83  
CAS: 10043-35-3  
EEC-N: 233-139-2



### Danger

H360FD-HA26  
P201-P202-P280-P308+P313-P405-P501a

### Boric acid > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... White crystalline powder Sulphate ..... ≤100 ppm Insoluble in methanol ..... ≤50 ppm Organic substances ..... Conform  
Identification ..... Positive Heavy metals (Pb) ..... ≤10 ppm Nonvolatile with methanol ..... ≤500 ppm pH solution 3.3% ..... 3.8 ÷ 4.8  
Chloride ..... ≤10 ppm Ca ..... ≤50 ppm Appearance of solution ..... Conform Loss on drying ..... ≤0.5 %  
Phosphate ..... ≤10 ppm Fe ..... ≤10 ppm Alcohol solubility ..... Conform Assay (acidimetric) ..... 99.5 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
402763	100 g	Plastic bottle	
402766	500 g	Plastic bottle	
402767	1 kg	Plastic bottle	
402765	10 kg	Plastic tank	
402762	25 kg	Plastic bucket	
402764	50 kg	Fibre drum	

### Boric acid > ERBApharm - According to pharmacopoeia: NF

ERBApharm

Description ..... White crystalline powder pH (sol. 3.3%) ..... 3.8 ÷ 4.8 Fe ..... ≤ 1 ppm Residual solvents (Current ICH) ..... Conform  
Identification ..... Positive Organic substances ..... Conform Ph.Eur. Heavy metals (Pb) ..... ≤ 15 ppm  
Appearance of solution ..... Conform Ph.Eur. Loss on drying ..... ≤ 0.5 % Assay (acidimetric) ..... 99.5 ÷ 100.5 % s.s.  
Alcohol solubility ..... Conform Ph.Eur. Sulphate ..... ≤ 450 ppm Origin (BSE/TSE) ..... Synthesis

Code	Size	Packaging	Notes
302185	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Boric acid > ERBApharm - According to pharmacopeia: Ph.Eur.-FU-Ph.Franc.-DAB-USP

ERBApharm

Description .....	White crystalline powder	Organic substances.....	Conform Ph.Eur.	Fe .....	≤10 ppm	Residual solvents (Current ICH).....	Conform
Identification .....	Positive	pH (sol. 3.3%) .....	3.8 ÷ 4.8	Heavy metals (Pb).....	≤15 ppm		
Appearance of solution .....	Conform Ph.Eur.	Loss (silica gel) .....	≤0.5 %	Assay (acidimetric) .....	99.5 ÷ 100.5 % s.s.		
Alcohol solubility .....	Conform Ph.Eur.	Sulphate .....	≤450 ppm	Origin (BSE/TSE).....	Synthesis		

Code	Size	Packaging	Notes
302177	1 kg	Plastic bottle	
302179	5 kg	Plastic tank	
302178	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Boric acid 4%

• Acido borico 4% • Acide borique 4% • Acido bórico 4% • Borsäure 4%

H <sub>3</sub> BO <sub>3</sub>	HEU210
Molecular Weight: 61,83	
CAS: 10043-35-3	

## Boric acid 4% > RS - For agroalimentary analysis

RS

Description .....

Clear colourless liquid	Assay .....	3.975 ÷ 4.025 %
-------------------------	-------------	-----------------

Code	Size	Packaging	Notes
502002	5 l	Plastic tank	

**According to NF V04-387: H3BO3: 40 g/L water QSP 1 L**



## Boric acid 4% with indicator

• Acido borico 4% con indicatore • Acide borique 4% avec indicateur • Acido bórico 4% con indicador • Borsäure 4% mit Indikator

H <sub>3</sub> BO <sub>3</sub>	HEU210
Molecular Weight: 61,83	
CAS: 10043-35-3	

## Boric acid 4% with indicator > RS - For agroalimentary analysis

RS

Description .....

Clear mauve liquid	Assay .....	3.975 ÷ 4.025 %
--------------------	-------------	-----------------

Code	Size	Packaging	Notes
502601	5 l	Plastic tank	

**According to NF V04-211: H3BO3: 40 g/L water QSP 1L. Mixed indicator (Methyl red+Bromocresol green): 10 ml**



## Boric acid 3%

• Acido borico 3% • Acide borique 3% • Acido bórico 3% • Borsäure 3%

H <sub>3</sub> BO <sub>3</sub>	HEU210
Molecular Weight: 61,83	
CAS: 10043-35-3	

## Boric acid 3% > RPE - For analysis

RPE

Boric acid content .....

2.9 - 3.1 %
-------------

Code	Size	Packaging	Notes
PS0563/21	2.5 l	Glass bottle	

**Boric acid 1% with indicator**

• Acido borico 1% con indicatore • Acide borique 1% avec indicateur • Acido bórico 1% con indicador • Borsäure 1%

H<sub>3</sub>BO<sub>3</sub>

HEU210

Molecular Weight: 61,83

CAS: 10043-35-3

**Boric acid 1% with indicator > RS - For agroalimentary analysis**

RS

Description ..... Clear grey/green liquid Assay ..... 0.993 ÷ 1.007 %

Code	Size	Packaging	Notes
502611	5 l	Plastic tank	
502612	10 l	Plastic tank	

**According to NF V04-211: H3BO3: 10 g/L water QSP 1L. Mixed indicator (Methyl red+Bromocresol green): 10 ml****Boric acid 20g/l**

• Acido borico 20g/l • Acide borique 20g/l • Acido bórico 20g/l • Borsäure 20 g/l

H<sub>3</sub>BO<sub>3</sub>

HEU210

Molecular Weight: 61,83

CAS: 10043-35-3

**Boric acid 20g/l > RS - For analysis**

RS

Concentration ..... 19 - 21 g/l

Code	Size	Packaging	Notes
PS0703/22	5 l	Plastic tank	

**Boric acid 20 g/l with indicator**

• Acido borico 20 g/l con indicatore • Acide borique 20 g/l avec indicateur • Acido bórico 20 g/l con indicador • Borsäure 20 g/l mit Indikator

H<sub>3</sub>BO<sub>3</sub>

HEU210

Molecular Weight: 61,83

CAS: 10043-35-3

**Boric acid 20 g/l with indicator > RS - For nitrogen detection according to Kjeldahl**

RS

Refractive index at 20°C ..... 1.331 - 1.335 Density d20/4 ..... 1.003 - 1.007

Code	Size	Packaging	Notes
PS0562/22	5 l	Plastic tank	

**Composition: Boric acid 20g, Red methyl solution 0.5 g/l: 10ml, Methylene blue solution 1.5 g/l: 2ml, water: QSP 1l according to ISO 5663-1984****Boric buffer solution**

• Tampono borico soluzione • Solution tampon borique • Tampón bórico solución • Boric Pufferlösung

**Warning**

H315-H319

P264-P280a-P305+P351+P338-P332+P313-

P362+P364-P337+P313

**Boric buffer solution > RS - For analysis**

RS

Temperature of measurement ..... 19 - 21 °C pH ..... 9.9 - 10.9 unite pH

Code	Size	Packaging	Notes
PS0226/41	10 l	Plastic tank	

**Composition: boric acid 33g/l, potassium chloride 39.7g/l, sodium hydroxide 18.75g/l**

2-Bornanone ▶ Camphor natural





## Boron standard solution

• Boro standard soluzione • Bore standard solution • Boro, solución patrón • Bor Standardlösung

HEU210

### Boron standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505322	100 ml	Plastic bottle	conc. 10 ppm Matrix: Water
505325	100 ml	Plastic bottle	conc. 100 ppm Matrix: Water
505323	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Boron standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503441	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503443	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503445	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Water
503447	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Boron standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497465	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Water
E497461	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Boron standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
429641		Plastic ampoule	conc. 1.000 ppm Matrix: Water - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Brilliant Blue R ▶ Coomassie brilliant blue R 250



## Brillant cresyl blue

• Blu cresile brillante • Bleu de crésyl brillant • Azul de cresol brillante • Brillantes Kresylblau

$C_{17}H_{21}N_4O \cdot 0.5 ZnCl_4$   
Molecular Weight: 400,97  
CAS: 81029-05-2  
EEC-N: 279-675-0

### Brillant cresyl blue > RS - For microscopy

RS

Description ..... Polvere verde-bluastro scura Identification ..... Positive E (1%/1cm) a 622 nm (in ETOH 50%) ..... 1500 ÷ 1700

Code	Size	Packaging	Notes
428811	10 g	Glass bottle	
428812	25 g	Glass bottle	

**Dye for cytology and hematology**

**Brilliant green**

• Verde brillante • Vert brillant • Verde brillante • Brillantgrün

## Synonym:

- Basic Green 1
- Diamond green

$C_{27}H_{34}N_2O_4S$   
 Molecular Weight: 482,64  
 CAS: 633-03-4  
 EEC-N: 211-190-1

**Warning**

H302  
 P264-P270-P301+P312a-P330-P501a

**Brilliant green > RPE - For analysis - C.I. 42040****RPE**

Description ..... Green crystalline powder    Identification ..... Positive    Loss on drying ..... ≤ 10 %    Colour change ..... yellow green

Code	Size	Packaging	Notes
491152	25 g	Glass bottle	

**Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 0.1 ÷ 2.6)****Brix Standards**

• Brix Standards • Etalons en degré Brix • Brix patrones • Hengste im Brix-Grad

**Brix Standards > RS - For calibration****RS**

Code	Size	Packaging	Notes
540201	15 ml	Ampoule	Sucrose Stabilised 0%, Nominal Refractive Index @ 20°C: 1.332986
540202	15 ml	Ampoule	Sucrose Stabilised 5%, Nominal Refractive Index @ 20°C: 1.340264
540203	15 ml	Ampoule	Sucrose Stabilised 7%, Nominal Refractive Index @ 20°C: 1.343253
540204	15 ml	Ampoule	Sucrose Stabilised 10%, Nominal Refractive Index @ 20°C: 1.347824
540205	15 ml	Ampoule	Sucrose Stabilised 11.5%, Nominal Refractive Index @ 20°C: 1.350149
540206	15 ml	Ampoule	Sucrose Stabilised 12%, Nominal Refractive Index @ 20°C: 1.350930
540207	15 ml	Ampoule	Sucrose Stabilised 15%, Nominal Refractive Index @ 20°C: 1.355679
540208	15 ml	Ampoule	Sucrose Stabilised 20%, Nominal Refractive Index @ 20°C: 1.363842
540209	15 ml	Ampoule	Sucrose Stabilised 25%, Nominal Refractive Index @ 20°C: 1.372328
540210	15 ml	Ampoule	Sucrose Stabilised 30%, Nominal Refractive Index @ 20°C: 1.381149
540220	15 ml	Ampoule	Sucrose Stabilised 35%, Nominal Refractive Index @ 20°C: 1.390322
540221	15 ml	Ampoule	Sucrose Stabilised 40%, Nominal Refractive Index @ 20°C: 1.39986
540222	15 ml	Ampoule	Sucrose Stabilised 45%, Nominal Refractive Index @ 20°C: 1.409777
540223	15 ml	Ampoule	Sucrose Stabilised 50%, Nominal Refractive Index @ 20°C: 1.420087
540224	15 ml	Ampoule	Sucrose Stabilised 60%, Nominal Refractive Index @ 20°C: 1.441928
540225	15 ml	Ampoule	Sucrose Stabilised 67.5%, Nominal Refractive Index @ 20°C: 1.459290

**Store between 2 - 8 °C**



## Bromate standard solution

• Bromati standard soluzione • Bromate standard solution • Bromato, solución patrón • Bromat-Standardlösung



### Danger

H350-HA26

P201-P202-P280-P308+P313-P405-P501a

### Bromate standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503171	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503173	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Bromide - bromate 0.0167 mol/l

• Bromuri - bromati 0.0167 mol/l • Bromure - bromate 0.0167 mol/l • Bromuro - bromato 0.0167 mol/l • Bromidbromat 0.0167 mol/l



### Danger

H350-HA26

P201-P202-P280-P308+P313-P405-P501a

### Bromide - bromate 0.0167 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001000	1 l	Plastic bottle	Ref Ph.Eur 3001000



## Bromide standard solution

• Bromuri standard soluzione • Bromure standard solution • Bromuro, solución patrón • Bromid-Standardlösung

### Bromide standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503211	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503213	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Bromine solution

• Bromo soluzione • Brome solution • Bromo, solución patrón • Brome lösung

Br<sub>2</sub>

Molecular Weight: 159,82

CAS: 7726-95-6

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group I



### Danger

H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Bromine solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611012401	100 ml	Glass bottle	Ref Ph.Eur 1012401

### Bromine solution > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000141	100 ml	Glass bottle	Brome TS

**Bromine water**

• Acqua di bromo • Eau de brome • Agua de bromo • Bromwasser

Br<sub>2</sub>

Molecular Weight: 159,82

CAS: 7726-95-6

**Classification transport**

ONU: 1760

Transport Hazard class: 8

Packing group I

**Danger**

H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Bromine water > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611012409	50 ml	Glass bottle	Ref Ph.Eur 1012402
611012402	100 ml	Glass bottle	Ref Ph.Eur 1012402

**Storage: protected from light****Bromocresol green**

• Verde bromocresolo • Vert de bromocrésol • Verde de bromocresol • Bromkresolgrün

C<sub>21</sub>H<sub>14</sub>Br<sub>4</sub>O<sub>5</sub>S

Molecular Weight: 698,05

CAS: 76-60-8

EEC-N: 200-972-8

**Bromocresol green > RPE - For analysis - ACS****RPE**

Description ..... Tan powder      Appearance of solution ..... Conform      pH range ..... 3.8 ÷ 5.4  
 Identification ..... Positive      Colour change ..... yellow-blue

Code	Size	Packaging	Notes
491207	1 g	Glass bottle	
491208	25 g	Glass bottle	

**Clark indicator series. Complexometric indicator. Dye for microscopy (botanical-histology)****Bromocresol green 0.04% hydroalcoholic solution**

• Verde bromocresolo soluzione 0.04% idroalcolica • Vert de bromocrésol 0.04% solution hydroalcoolique  
 • Verde de bromocresol 0.04% solución hidroalcohólica • Bromkresolgrün 0.04% ige hydroalkoholische Lösung

C<sub>21</sub>H<sub>14</sub>Br<sub>4</sub>O<sub>5</sub>S

Molecular Weight: 698,05

CAS: 76-60-8

**Warning**

H319

P264-P280i-P305+P351+P338-P337+P313

**Bromocresol green 0.04% hydroalcoholic solution > RPE - For analysis****RPE**

Description ..... Clear green liquid      Identification ..... Positive      Sensitivity(pH 4.0-5.4) ..... Conform      Colour change ..... yellow blue

Code	Size	Packaging	Notes
E491255	250 ml	Glass bottle	

**Clark indicator series. Acid-base indicator (pH 3.8 ÷ 5.4)****Bromocresol green solution**

• Verde bromocresolo soluzione • Vert de bromocrésol solution • Verde de bromocresol solución • Bromkresolgrünlösung

C<sub>21</sub>H<sub>14</sub>Br<sub>4</sub>O<sub>5</sub>S

Molecular Weight: 698,05

CAS: 76-60-8

**Bromocresol green solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611012601	100 ml	Plastic bottle	Ref Ph.Eur 1012601 / Colour change: pH 3.6 (yellow) to pH 5.2 (blue)

## Bromocresol green solution > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000101	100 ml	Plastic bottle	Bromocresol green TS



## Bromocresol green - Methyl red solution

- Verde bromocresolo - Rosso metile soluzione • Vert de bromocrésol - Rouge de méthyle solution • Verde de bromocresol - Rojo de metilo solución
- Bromkresolgrün - Methylrotlösung

### Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H319  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P337+P313

## Bromocresol green - Methyl red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611012602	100 ml	Plastic bottle	Ref Ph.Eur 1012602



## Bromocresol purple

- Porpora bromocresolo • Pourpre de bromocrésol • Púrpura de bromocresol • Bromkresolpurpur

Synonym:  
 5,5'-Dibromo-o-cresolsulfonphthalein

$C_{21}H_{16}Br_2O_5S$   
 Molecular Weight: 540,24  
 CAS: 115-40-2  
 EEC-N: 204-087-8



### Warning

H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

## Bromocresol purple > RPE - For analysis

RPE

Description ..... Pink powder    Identification ..... Positive    Colour change ..... Purple - yellow    pH range ..... 5.2 ÷ 6.8

Code	Size	Packaging	Notes
470038	5 g	Glass bottle	
470039	25 g	Glass bottle	

**Clark indicator series. Acid-base indicator (pH 5.2 ÷ 6.8) Dye for microscopy (histology)**



## Bromocresol purple solution 0.4% in ethanol

- Porpora bromocresolo soluzione 0.4% in etanolo • Pourpre de bromocrésol solution 0.4% dans l'éthanol
- Púrpura de bromocresol solución 0.4% en alcohol etílico • Bromkresol-Purpur-Lösung 0.4% in Ethanol

Synonym:  
 5,5'-Dibromo-o-cresolsulfonphthalein

$C_{21}H_{16}Br_2O_5S$   
 Molecular Weight: 540,24  
 CAS: 115-40-2



### Warning

H319  
 P264-P280i-P305+P351+P338-P337+P313

## Bromocresol purple solution 0.4% in ethanol > RPE - For analysis

RPE

Description ..... Red clear liquid    Identification ..... Positive    pH range ..... 5.2 - 6.8

Code	Size	Packaging	Notes
E470045	250 ml	Glass bottle	

**Clark indicator series. Acid-base indicator (pH 5.2 ÷ 6.8) Dye for microscopy (histology)**

**Bromocresol purple solution**

• Porpora bromocresolo soluzione • Pourpre de bromocrésol solution • Púrpura de bromocresol solución • Bromkresol-Purpur-Lösung

**Classification transport**ONU: 1993  
Transport Hazard class: 3  
Packing group III**Warning**H226-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313**Bromocresol purple solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611012701	100 ml	Plastic bottle	Ref Ph.Eur 1012701

**Colour change: pH 5.2 (yellow) to pH 6.8 (bluish-violet)****alpha-Bromonaphthalene**

• alfa-Bromonaftalene • alpha-Bromonaphtalène • alpha-Bromonaftaleno • alpha-Bromnaphthalin

C<sub>10</sub>H<sub>7</sub>Br  
Molecular Weight: 207,07  
CAS: 90-11-9  
EEC-N: 201-965-2**Warning**H302-H319  
P264-P280i-P301+P312a-P305+P351+P338-  
P337+P313-P501a**alpha-Bromonaphthalene > RPE - For analysis****RPE**Description ..... Yellow or brown clear liquid    Density at 20° C ..... 1.479 ÷ 1.485    Melting point ..... 2.0 ÷ 4.0 ° C  
Identification ..... Positive    Refractive index at 20°C ..... 1.6562 ÷ 1.6602    Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
430652	500 ml	Glass bottle	

**Bromophenol blue**

• Blu bromofenolo • Bleu de bromophénol • Azul de bromofenol • Bromphenolblau

Synonym:

3',3'',5',5''-Tetrabromophenolsulfonephthalein

C<sub>19</sub>H<sub>10</sub>Br<sub>4</sub>O<sub>5</sub>S  
Molecular Weight: 669,96  
CAS: 115-39-9  
EEC-N: 204-086-2**Bromophenol blue > RPE - For analysis - ACS****RPE**Description ..... Pink powder    Appearance of solution ..... Conform    pH range ..... 3.0 - 4.6  
Identification ..... Positive    Colour change ..... yellow blue

Code	Size	Packaging	Notes
428658	5 g	Glass bottle	
428659	25 g	Glass bottle	
428653	50 g	Glass bottle	
428655	500 g	Plastic bottle	

**Clark indicator series. Dye for microscopy (histology)****Bromophenol blue solution 0.4% in ethanol**• Blu bromofenolo soluzione 0.4% in alcole etilico • Bleu de bromophénol solution 0.4% dans l'éthanol • Azul de bromofenol solución 0.4% en alcohol etilico  
• Bromphenolblau Lösung 0.4% in EthanolC<sub>19</sub>H<sub>10</sub>Br<sub>4</sub>O<sub>5</sub>S  
Molecular Weight: 669,96  
CAS: 115-39-9**Warning**H319  
P264-P280i-P305+P351+P338-P337+P313**Bromophenol blue solution 0.4% in ethanol > RPE - For analysis****RPE**

Description ..... Red liquid    Identification ..... Positive    Colour change ..... yellow blue    pH range ..... 3.0 - 4.6

Code	Size	Packaging	Notes
E428665	250 ml	Glass bottle	

**Clark indicator series. Acid-base indicator (pH 3.0 to 4.6) indicator absorbance**





## Bromophenol blue solution 0.02%

• Blu bromofenolo soluzione 0.02% • Bleu de bromophénoł solution 0.02% • Azul de bromofenol solución 0.02% • Bromphenolblau 0.02%

$C_{19}H_{10}Br_4O_5S$   
Molecular Weight: 669,96  
CAS: 115-39-9

### Bromophenol blue solution 0.02% > RPE - For analysis

RPE

Description ..... Clear purple liquid Identification ..... Positive

Code	Size	Packaging	Notes
428691	100 ml	Glass bottle	

**Dye for microscopy**



## Bromophenol blue solution

• Blu bromofenolo soluzione • Bleu de bromophénoł solution • Azul de bromofenol solución • Bromphenolblau-Lösung

$C_{19}H_{10}Br_4O_5S$   
Molecular Weight: 669,96  
CAS: 115-39-9

### Classification transport

ONU: 2733  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

### Bromophenol blue solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611012801	100 ml	Plastic bottle	Ref Ph.Eur 1012801/Color change: pH 2.8 (yellow) to pH 4.4 (blue-violet)
611012802	100 ml	Plastic bottle	Bromophenol blue solution R1 Ref Ph.Eur 1012802
611012803	100 ml	Plastic bottle	Bromophenol blue solution R2 Ref Ph.Eur 1012803



## Bromophenol blue indicator

• Blu bromofenolo indicatore • Indicateur bleu de bromophénoł • Indicador azul de bromofenol • Bromphenolblau-Indikator

### Bromophenol blue indicator > RS - For analysis

RS

Temperature of measurement ..... 15 - 25 °C pH..... 2.1 - 2.3 unite pH

Code	Size	Packaging	Notes
PS0269/15	1 l	Plastic bottle	

**Composition: 97,3% NaOH 0.1N 2,7% H2SO4 96%, 0.8% bromophenol blue**



## Bromophenol blue TAC indicator

• Blu bromofenolo indicatore TAC • Indicateur TAC au bleu de bromophénoł • TAC indicador azul de bromofenol • Bromphenolblau-TAC-Indikator

### Bromophenol blue TAC indicator > RS - For analysis

RS

Temperature of measurement ..... 15 - 25 °C pH..... 2 - 2.4 unite pH Colour ..... coca-cola Hazen

Code	Size	Packaging	Notes
PS0189/15	1 l	Plastic bottle	
PS0189/16	1 l	Glass bottle	

**Bromothymol blue**

• Blu bromotimolo • Bleu de bromothymol • Azul de bromotimol • Bromthymolblau

Synonym:

3',3'-Dibromothymolsulfonphthalein

$C_{27}H_{28}Br_2O_5S$   
 Molecular Weight: 624,39  
 CAS: 76-59-5  
 EEC-N: 200-971-2

**Warning**

H302-H312-H332  
 P261-P264-P271-P280h-P301+P312a-P304+P340

**Bromothymol blue > RPE - For analysis - ACS****RPE**

Description ..... Brown powder      Appearance of solution ..... Conform      pH range ..... 6.0 - 7.6  
 Identification ..... Positive      Colour change ..... yellow-blue

Code	Size	Packaging	Notes
428708	5 g	Glass bottle	
428702	25 g	Glass bottle	
428703	50 g	Glass bottle	

**Clark indicator series****Bromothymol blue 0.4% in ethanol**

• Blu bromotimolo soluzione 0.4% in alcolico etilico • Bleu de bromothymol solution 0.4% dans l'éthanol • Azul de bromotimol solución 0.4% en alcohol etilico  
 • Bromthymolblau 0.4% in Ethanol

$C_{27}H_{28}Br_2O_5S$   
 Molecular Weight: 624,39  
 CAS: 76-59-5

**Warning**

H319  
 P264-P280i-P305+P351+P338-P337+P313

**Bromothymol blue 0.4% in ethanol > RPE - For analysis****RPE**

Description ..... Dark green liquid      Identification ..... Positive      Colour change ..... yellow blue      pH (Hydralcoholic sol.) ..... Conform 6.0 7.6

Code	Size	Packaging	Notes
E428715	250 ml	Glass bottle	

**Clark indicator series****Bromothymol blue 0.02%**

• Blu bromotimolo 0.02% • Bleu de bromothymol solution 0.02% • Azul de bromotimol 0.02%  
 • Bromthymolblau 0.02%

Synonym:

3',3'-Dibromothymolsulfonphthalein

$C_{27}H_{28}Br_2O_5S$   
 Molecular Weight: 624,39  
 CAS: 76-59-5

**Bromothymol blue 0.02% > RPE - For analysis****RPE**

Description ..... Dark green liquid      Identification ..... Positive      pH at 20° C ..... 6.7 ÷ 6.9

Code	Size	Packaging	Notes
428731	100 ml	Glass bottle	

**Dye for microscopy****Bromothymol blue solution**

• Blu bromotimolo soluzione • Bleu de bromothymol solution • Azul de bromotimol solución  
 • Bromthymolblau-Lösung

Synonym:

3',3'-Dibromothymolsulfonphthalein

$C_{27}H_{28}Br_2O_5S$   
 Molecular Weight: 624,39  
 CAS: 76-59-5

**Classification transport**

ONU: 1170  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H319  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P337+P313

**Bromothymol blue solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611012901	100 ml	Plastic bottle	Bromothymol blue solution R1 Ref Ph.Eur 1012901/ Color change: pH 5.8 (yellow) to pH 7.4 (blue)
611012903	100 ml	Plastic bottle	Bromothymol blue solution R3 Ref Ph.Eur 1012903

## BSA ► N,O-Bis(trimethylsilyl)acetamide

## BSTFA ► N,O-Bis(trimethylsilyl)-trifluoroacetamide



## Buffer acetate pH 4.5

• Tampone acetato pH 4.5 • Tampon acétate pH 4.5 • Tampón acetato pH 4,5 • Puffer acetate pH 4.5

## Buffer acetate pH 4.5 &gt; RS - For analysis

RS

Temperature of measurement ..... 19 - 21 °C    pH.....4.3 - 4.7 unite pH

Code	Size	Packaging	Notes
PS0784/95	5 l	Kubidos	

**Composition: sodium acetate anhydrous 164g/l, acetic acid 168g/l, deionized water 763g/l**

## Buffer pH 1

• Tampone pH 1 • Tampon pH 1 • Tampón pH 1 • Puffer pH 1

## Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group II

## Danger

H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

## Buffer pH 1 &gt; RPE - For analysis

RPE

pH.....0.98 - 1.02 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486211	500 ml	Plastic bottle	

**Composition: Glycolle/Sodium Chloride/Hydrochloric acid. Standardized against NIST reference materials**

## Buffer pH 1 &gt; RPE - NORMEX - For analysis

RPE

Code	Size	Packaging	Notes
486221		Plastic ampoule	To dilute to 500 ml

**Composition: Glycolle/Sodium Chloride/Hydrochloric acid. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Buffer pH 1.68

• Tampone pH 1.68 • Tampon pH 1.68 • Tampón pH 1.68 • Puffer pH 1.68

HEU210

## Buffer pH 1.68 &gt; RS - For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203168	500 ml	Plastic bottle	Certified Reference Material

**Composition: Potassium tetraoxalate 0.05 M**

## Buffer pH 1.68 &gt; RPE - For analysis

RPE

Clear, colourless solution ..... Conform    pH.....1.66 - 1.70 unite pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486751	500 ml	Plastic bottle	

**Composition: Potassium oxalate tetra-acid. Standardized against NIST reference materials**



## Buffer pH 2

• Tampona pH 2 • Tampon pH 2 • Tampón pH 2 • Puffer pH 2

### Buffer pH 2 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614000200	1 l	Plastic bottle	Ref Ph.Eur 4000200

### Buffer pH 2 > RPE - For analysis

RPE

pH..... 1.98 - 2.02 unità pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486231	500 ml	Plastic bottle	

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 2 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 1.95 ÷ 2.05

Code	Size	Packaging	Notes
486241		Plastic ampoule	To dilute to 500 ml

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 3

• Tampona pH 3 • Tampon pH 3 • Tampón pH 3 • Puffer pH 3



### Warning

H290-H319  
P234-P264-P280i-P305+P351+P338-  
P337+P313-P406

### Buffer pH 3 > RPE - For analysis

RPE

pH..... 2.98 - 3.02 unità pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486251	500 ml	Plastic bottle	
486252	1 l	Plastic bottle	

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 3 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 2.95 ÷ 3.05

Code	Size	Packaging	Notes
486261		Plastic ampoule	To dilute to 500 ml

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 3.5

• Tampona pH 3.5 • Tampon pH 3.5 • Tampón pH 3.5 • Puffer pH 3.5

### Classification transport

ONU: 1789  
Transport Hazard class: 8  
Packing group II



### Warning

H290-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Buffer pH 3.5 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614000601	250 ml	Plastic bottle	Ref Ph.Eur 4000600
614000600	1 l	Plastic bottle	Ref Ph.Eur 4000600



## Buffer pH 3.56

• Tampono pH 3.56 • Tampon pH 3.56 • Tampón pH 3.56 • Puffer pH 3.56

### Buffer pH 3.56 > RPE - For analysis

RPE

pH..... 3.54 - 3.58 unité pH    Temperature of measurement..... 19 - 21 °C

Code	Size	Packaging	Notes
486741	500 ml	Plastic bottle	

**Composition: Potassium tartrate acide. Standardized against NIST reference materials**



## Buffer pH 3.7

• Tampono pH 3.7 • Tampon pH 3.7 • Tampón pH 3.7 • Puffer pH 3.7

### Buffer pH 3.7 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614000900	1 l	Plastic bottle	Ref Ph.Eur 4000900



## Buffer pH 4

• Tampono pH 4 • Tampon pH 4 • Tampón pH 4 • Puffer pH 4

### Buffer pH 4 > RS - For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203401	500 ml	Plastic bottle	pH 4.01 at 25°C - Certified Reference Material

**Composition: Potassium hydrogen phthalate 0.05 M**

### Buffer pH 4 > RPE - For analysis

RPE

pH..... 3.98 - 4.02 unité pH    Temperature of measurement..... 19 - 21 °C

Code	Size	Packaging	Notes
486271	500 ml	Plastic bottle	
486273	1 l	Plastic bottle	
486274	5 l	Kubidos	
486276	10 l	Kubidos	

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 4 > RPE - For analysis - Colored solution

RPE

pH..... 3.98 - 4.02 unité pH    Temperature of measurement..... 19 - 21 °C

Code	Size	Packaging	Notes
486761	500 ml	Plastic bottle	Color: Red
486762	1 l	Plastic bottle	Color: Red

**Composition: Potassium phthalate acid. Standardized against NIST reference materials**

### Buffer pH 4 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 3.95 ÷ 4.05

Code	Size	Packaging	Notes
486281		Plastic ampoule	To dilute to 500 ml

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Buffer pH 4 > RPE - NORMEX - For analysis - Colored solution

RPE

Description ..... Red clear liquid Identification ..... Positive pH at 20° C ..... 3.95 ÷ 4.05

Code	Size	Packaging	Notes
486291		Plastic ampoule	Color: red - To dilute to 500 mL

**Composition: Potassium phthalate acid. Traceable to NIST. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 4.5

• Tamponne pH 4.5 • Tampon pH 4.5 • Tampón pH 4.5 • Puffer pH 4.5

## Buffer pH 4.5 > RS - For HPLC

RS

pH ..... 4.45 - 4.55 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
524971	10 l	Plastic tank	



## Buffer pH 4.62

• Tamponne pH 4.62 • Tampon pH 4.62 • Tampón pH 4.62 • Puffer pH 4.62

HEU210

## Buffer pH 4.62 > RPE - For analysis

RPE

pH ..... 4.60 - 4.64 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486841	500 ml	Plastic bottle	

**Composition: Sodium acetate / Acetic acid. Standardized against NIST reference materials**



## Buffer pH 5

• Tamponne pH 5 • Tampon pH 5 • Tampón pH 5 • Puffer pH 5



### Warning

H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

## Buffer pH 5 > RPE - For analysis

RPE

pH ..... 4.98 - 5.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486311	500 ml	Plastic bottle	

**Composition: Citric acid/Sodium hydroxide. Standardized against NIST reference materials**

## Buffer pH 5 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 4.95 ÷ 5.05

Code	Size	Packaging	Notes
486301		Plastic ampoule	To dilute to 500 ml

**Composition: Citric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 5.2

• Tamponne pH 5.2 • Tampon pH 5.2 • Tampón pH 5.2 • Puffer pH 5.2

## Buffer pH 5.2 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614001700	1 l	Plastic bottle	Ref Ph.Eur 4001700





## Buffer pH 6

• Tampone pH 6 • Tampon pH 6 • Tampón pH 6 • Puffer pH 6



### Warning

H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Buffer pH 6 > RPE - For analysis

RPE

pH..... 5.98 - 6.02 unità pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486331	500 ml	Plastic bottle	

**Composition: Citric acid/Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 6 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 5.95 ÷ 6.05

Code	Size	Packaging	Notes
486321		Plastic ampoule	To dilute to 500 ml

**Composition: Citric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 6.8

• Tampone pH 6.8 • Tampon pH 6.8 • Tampón pH 6.8 • Puffer pH 6.8

### Buffer pH 6.8 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 6.75 ÷ 6.85

Code	Size	Packaging	Notes
486401		Plastic ampoule	To dilute to 500 ml

**Composition: Potassium phosphate monobasic/ Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 6.88

• Tampone pH 6.88 • Tampon pH 6.88 • Tampón pH 6.88 • Puffer pH 6.88

### Buffer pH 6.88 > RS - For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203687	500 ml	Plastic bottle	pH 6.87 at 25°C - Certified Reference Material

**Composition: Potassium dihydrogen phosphate 0.025 M + disodium hydrogen phosphate 0.025 M**

### Buffer pH 6.88 > RPE - For analysis

RPE

pH..... 6.86 - 6.90 unità pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486871	500 ml	Plastic bottle	

**Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Standardized against NIST reference materials**



## Buffer pH 7

• Tampone pH 7 • Tampon pH 7 • Tampón pH 7 • Puffer pH 7

### Buffer pH 7 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614003500	1 l	Plastic bottle	Ref Ph.Eur 4003500

## Buffer pH 7 > RPE - For analysis

RPE

pH..... 6.98 - 7.02 unità pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486451	500 ml	Plastic bottle	
486453	1 l	Plastic bottle	
486454	5 l	Kubidos	
486456	10 l	Kubidos	
486455	25 l	Plastic tank	

**Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Standardized against NIST reference materials**

## Buffer pH 7 > RPE - For analysis - Colored solution

RPE

Appearance ..... Green clear solution    pH..... 6.98 - 7.02 unità pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486791	500 ml	Plastic bottle	Color: Green
486792	1 l	Plastic bottle	Color: Green

**Composition: Potassium phosphate monobasic/Sodium phosphate dibasic / Color: Green Standardized against NIST reference materials**

## Buffer pH 7 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 6.95 ÷ 7.05

Code	Size	Packaging	Notes
486421		Plastic ampoule	To dilute to 500 ml

**Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Buffer pH 7 > RPE - NORMEX - For analysis - Colored solution

RPE

Description ..... Yellow clear liquid    Identification ..... Positive    pH at 20° C ..... 6.95 ÷ 7.05

Code	Size	Packaging	Notes
486431		Plastic ampoule	Color: yellow - To dilute to 500 mL

**Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 7.2

• Tampone pH 7.2 • Tampon pH 7.2 • Tampón pH 7.2 • Puffer pH 7.2

## Buffer pH 7.2 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 7.15 ÷ 7.25

Code	Size	Packaging	Notes
486441		Plastic ampoule	To dilute to 500 ml

**Composition: Potassium phosphate monobasic / sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 7.20 Weise

• Tampone pH 7.20 secondo Weise • Tampon pH 7.20 selon Weise • Tampón pH 7.20 según Weise • Puffer pH 7.2 Weise

## Buffer pH 7.20 Weise > RS - For analysis

RS

Description ..... Clear colourless liquid    Identification ..... Conform    pH at 20° C ..... 7.2 ± 0.05

Code	Size	Packaging	Notes
486411	500 ml	Plastic bottle	



## Buffer pH 7.4

• Tampone pH 7.4 • Tampon pH 7.4 • Tampón pH 7.4 • Puffer pH 7.4

### Buffer pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203741	500 ml	Plastic bottle	pH 7.41 at 25°C - Certified Reference Material

**Composition: Potassium dihydrogen phosphate 0.0087 M + disodium hydrogen phosphate 0.0303 M**

### Buffer pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614004600	1 l	Plastic bottle	Ref Ph.Eur 4004600

### Buffer pH 7.4 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 7.35 ÷ 7.45

Code	Size	Packaging	Notes
486461		Plastic ampoule	To dilute to 500 ml

**Composition: Potassium phosphate monobasic / sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 8

• Tampone pH 8 • Tampon pH 8 • Tampón pH 8 • Puffer pH 8



**Warning**

H290

P234-P390-P406

### Buffer pH 8 > RPE - For analysis

RPE

pH ..... 7.98 - 8.02 unità pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486541	500 ml	Plastic bottle	
486542	1 l	Plastic bottle	

**Composition: Boric acid/Sodium hydroxide/Hydrochloric acid. Standardized against NIST reference materials**

### Buffer pH 8 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 7.95 ÷ 8.05

Code	Size	Packaging	Notes
486531		Plastic ampoule	To dilute to 500 ml

**Composition: Boric acid/Sodium hydroxide/Hydrochloric acid. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 9

• Tampone pH 9 • Tampon pH 9 • Tampón pH 9 • Puffer pH 9

HEU210

### Buffer pH 9 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614007000	1 l	Plastic bottle	Ref Ph.Eur 4000700

## Buffer pH 9 > RPE - For analysis

RPE

pH..... 8.98 - 9.02 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486591	500 ml	Plastic bottle	
486593	1 l	Plastic bottle	
486594	5 l	Kubidos	

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Standardized against NIST reference materials**

## Buffer pH 9 > RPE - For analysis - Colored solution

RPE

pH..... 8.98 - 9.02 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0427/19	500 ml	Plastic bottle	Color: Blue

**Composition: Boric acid/Sodium hydroxide/Potassium chloride/Methylene blue. Traceable to NIST**

## Buffer pH 9 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 8.95 ÷ 9.05

Code	Size	Packaging	Notes
486571		Plastic ampoule	To dilute to 500 ml

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 9.22

• Tamponne pH 9.22 • Tampon pH 9.22 • Tampón pH 9.22 • Puffer pH 9.22

HEU210

## Buffer pH 9.22 > RS - For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203918	500 ml	Plastic bottle	pH 9.18 at 25°C - Certified Reference Material

**Composition: Disodium tetraborate 0.01 M**

## Buffer pH 9.22 > RPE - For analysis

RPE

pH..... 9.20 - 9.24 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486881	500 ml	Plastic bottle	

**Composition: Sodium tetraborate. Standardized against NIST reference materials**



## Buffer pH 10

• Tamponne pH 10 • Tampon pH 10 • Tampón pH 10 • Puffer pH 10



**Danger**

H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

## Buffer pH 10 > RS - For analysis according to AFNOR T90-003 normative

RS

pH..... 9 - 11 unite pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0200/15	1 l	Plastic bottle	

**Determination of the total concentration of Ca and Mg. Composition: ammonium chloride 64.5 g / l, ammonia 28% 440g / l EDTA-Mg 4.8 g / l deionized water 461.5 g / l**

## Buffer pH 10 > RPE - For analysis

RPE

Clear, colourless solution ..... Conform pH..... 9.95 - 10.05 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486611	500 ml	Plastic bottle	
486613	1 l	Plastic bottle	
486614	5 l	Kubidos	
486615	10 l	Kubidos	

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Standardized against NIST reference materials**

## Buffer pH 10 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 9.95 ÷ 10.05

Code	Size	Packaging	Notes
486601		Plastic ampoule	To dilute to 500 ml

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 10.06

• Tamponne pH 10.06 • Tampon pH 10.06 • Tampón pH 10.06 • Puffer pH 10.06

HEU210

## Buffer pH 10.06 > RPE - For analysis - Colored solution

RPE

Appearance ..... Blue clear solution pH..... 10.01 - 10.11 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486811	500 ml	Plastic bottle	Color: Blue
486812	1 l	Plastic bottle	Color: Blue

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Standardized against NIST reference materials**

## Buffer pH 10.06 > RPE - NORMEX - For analysis - Colored solution

RPE

Description ..... Blue clear liquid Identification ..... Positive pH at 20° C ..... 10.01 ÷ 10.11

Code	Size	Packaging	Notes
486581		Plastic ampoule	Color: blue - To dilute to 500 mL

**Composition: Sodium carbonate/Sodium bicarbonate. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 11

• Tamponne pH 11 • Tampon pH 11 • Tampón pH 11 • Puffer pH 11

## Buffer pH 11 > RPE - For analysis

RPE

Appearance ..... Clear colourless solution pH..... 10.98 - 11.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486771	500 ml	Plastic bottle	
486772	1 l	Plastic bottle	

**Composition: Sodium phosphate dibasic / Sodium hydroxide. Standardized against NIST reference materials**

## Buffer pH 11 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 10.95 ÷ 11.05

Code	Size	Packaging	Notes
486631		Plastic ampoule	To dilute to 500 ml

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 12

• Tampone pH 12 • Tampon pH 12 • Tampón pH 12 • Puffer pH 12

### Buffer pH 12 > RPE - For analysis

RPE

pH ..... 11.95 - 12.05 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486691	500 ml	Plastic bottle	

**Composition: Sodium phosphate/Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 12 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 11.95 ÷ 12.05

Code	Size	Packaging	Notes
486621		Plastic ampoule	To dilute to 500 ml

**Composition: Sodium phosphate/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 13

• Tampone pH 13 • Tampon pH 13 • Tampón pH 13 • Puffer pH 13

### Buffer pH 13 > RPE - For analysis

RPE

Clear, colourless solution ..... Conform    pH ..... 12.95 - 13.05 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486701	500 ml	Plastic bottle	
486702	1 l	Plastic bottle	

**Composition: Potassium Chloride/Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 13 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 12.95 ÷ 13.05

Code	Size	Packaging	Notes
486641		Plastic ampoule	To dilute to 500 ml

**Composition: Potassium Chloride/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Butanedioic acid ► Succinic acid



## 1-Butanesulfonic acid sodium salt

• Acido 1-butansolfonico sale sodico • Acide 1-butanesulfonique sel sodique  
• Acido 1-butanosulfónico sal sódica • 1-Butansulfonsäure-Natriumsalz

Synonym:

• Sodium 1-butanefulfonate

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>SO<sub>3</sub>Na  
Molecular Weight: 160,17  
CAS: 2386-54-1

### 1-Butanesulfonic acid sodium salt > RS - For ion pair chromatography

RS

Description ..... White powder    Assay ..... ≥ 99.0 %    At 210 nm ..... ≤ 1.0 AU    At 250 nm ..... ≤ 0.04 AU  
Water (K.F.) ..... ≤ 1.0 %    Absorbance (5.5% in water)    At 220 nm ..... ≤ 0.1 AU    At 280 nm ..... ≤ 0.04 AU

Code	Size	Packaging	Notes
405631	25 g	Glass bottle	
405632	100 g	Plastic bottle	



	<b>Butanol-1</b>	<b>Synonym:</b> <i>Butyl alcohol</i>
	• 1-Butanolo • Butanol-1 • Butanol-1 • Butanol-1	

CH<sub>3</sub>(CH<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>OH  
Molecular Weight: 74,12  
CAS: 71-36-3  
EEC-N: 200-751-6

**Classification transport**  
ONU: 1120  
Transport Hazard class: 3  
Packing group III



**Danger**  
H226-H302-H315-H318-H335-H336  
P210-P280-P303+P361+P353-P304+P340-P310a-  
P305+P351+P338-P330-P362+P364-P403+P233

### Butanol-1 > RS - For HPLC - Isocratic Grade

RS

Description .....	Clear colourless liquid	Boiling point.....	117.0 ÷ 118.0 °C	Assay (GLC) .....	≥99.8 %	at 310 nm .....	≥98 %
Identification .....	Positive	Residue on evaporation .....	≤5 ppm	U.V. Transmittance			
Density at 20° C .....	0.809 ÷ 0.811	Water (K.F.) .....	≤0.1 %	at 210 nm .....	≥10 %		
Refractive index at 20°C .....	1.3972 ÷ 1.4012	Acidity or alkalinity.....	≤0.0005 meq/g	at 235 nm .....	≥80 %		

Code	Size	Packaging	Notes
412511000	1 l	Glass bottle	
412512000	2.5 l	Glass bottle	

Filtered through 0.2 µm membrane

### Butanol-1 > RS - Anhydrous - For analysis

RS

Refractive index at 20°C .....	1.397 - 1.401	Non volatile residue .....	≤ 10 mg/Kg	Free acid (as CH <sub>3</sub> COOH) .....	≤ 20 mg/Kg
Water content (K.F.) .....	≤ 400 mg/Kg	Colour .....	≤ 10 Hazen	Assay (GC) .....	≥ 99.5 %

Code	Size	Packaging	Notes
P0171010	200 ml	Bottle with septum	
P0171016	1 l	Glass bottle	

### Butanol-1 > RPE - For analysis - ISO

RPE

Description .....	Clear liquid	Acidity .....	≤ 0.0008 meq/g	Ready carbonizable substances.....	Conform	Fe .....	≤ 0.1 ppm
Colour (APHA) .....	≤10	Alcalinity (NaOH).....	≤ 5 ppm	Al .....	≤ 0.5 ppm	Mg .....	≤ 0.1 ppm
Identification (I.R.).....	Conform	Carbonyl Compounds (CO) .....	≤ 200 ppm	Ba .....	≤ 0.1 ppm	Mn .....	≤ 0.02 ppm
Water solubility.....	Conform	Acetone .....	≤ 0.01 %	Ca .....	≤ 0.5 ppm	Ni .....	≤ 0.02 ppm
Density at 20° C .....	0.808 ÷ 0.810	Isobutanolo .....	≤ 0.15 %	Cd .....	≤ 0.05 ppm	Pb .....	≤ 0.1 ppm
Boiling point.....	116 ÷ 119 ° C	2-Butanolo.....	≤ 0.05 %	Co .....	≤ 0.02 ppm	Zn .....	≤ 0.1 ppm
Water (K.F.) .....	≤ 0.1 %	di-Butiletere .....	≤ 0.1 %	Cr .....	≤ 0.02 ppm	Assay (GLC) .....	≥ 99.5 %
Residue on evaporation .....	≤ 10 ppm	Aldeide butirrica .....	≤ 0.02 %	Cu .....	≤ 0.02 ppm		

Code	Size	Packaging	Notes
414131	1 l	Glass bottle	
414133	2.5 l	Glass bottle	
414132	22 kg	Metal drum	

### Butanol-1 > RE - Pure

RE

Description .....	Clear colourless liquid	Density at 20° C .....	0.808 ÷ 0.812	Water (K.F.) .....	≤0.1 %	Acidity .....	≤ 0.0008 meq/g
Colour .....	≤ 10 APHA	Refractive index at 20°C.....	1.397 - 1.401	Acidity (butirric acid).....	≤ 50 ppm	Assay (GLC) .....	≥99 %
Identification .....	Positive	Boiling point.....	116.8 ÷ 118.3 °C	Residue on evaporation .....	≤ 50 ppm		

Code	Size	Packaging	Notes
308251	1 l	Glass bottle	
528300	5 l	Plastic tank	
308257	22 kg	Metal drum	
528301	25 l	Metal drum	
308259	160 kg	Metal drum	



## Butanol-2

• 2-Butanolo • Butanol-2 • Butan-2-olo • Butanol-2

Synonym:  
sec-Butyl alcohol

CH<sub>3</sub>CHOHCH<sub>2</sub>CH<sub>3</sub>  
Molecular Weight: 74,12  
CAS: 78-92-2  
EEC-N: 201-158-5

**Classification transport**  
ONU: 1120  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H319-H335-H336  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233

### Butanol-2 > RPE - For analysis - Reag. Ph. Eur.

RPE

Description ..... Clear liquid  
Colour (APHA) ..... ≤10  
Identification ..... Positive  
Water solubility ..... Conform

Density at 20 °C ..... 0.801 ÷ 0.811  
Refractive index at 20°C. 1.3944 ÷ 1.3984  
Boiling point ..... 99 - 100 °C  
Water (K.F) ..... ≤0.2 %

Residue on evaporation ..... ≤20 ppm  
Acidity (butiric acid) ..... ≤20 ppm  
Alcalinity (NaOH) ..... ≤10 ppm  
Indole base ..... ≤0.1 ppm

Assay (GLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
414264	1 l	Glass bottle	
414266	15 kg	Metal drum	
414261	160 kg	Metal drum	

### Butanol-2 > RE - Pure - For synthesis

RE

Refractive index at 20°C ..... 1.395 - 1.399  
Water content (K.F) ..... ≤ 2000 mg/Kg

Non volatile residue ..... ≤ 50 mg/Kg  
Colour ..... ≤ 10 Hazen

Assay (GC) ..... ≥ 99 %  
Free acid (as CH<sub>3</sub>COOH) ..... ≤ 20 mg/Kg

Code	Size	Packaging	Notes
P0180241	10 l	Plastic tank	



## tert-Butanol

• Alcole ter-butílico • tert-Butanol • Alcohol ter-butílico • tert-Butanol

Synonym:  
• 2-Methyl-2-propanol  
• tert-Butyl alcohol

(CH<sub>3</sub>)<sub>3</sub>COH  
Molecular Weight: 74,12  
CAS: 75-65-0  
EEC-N: 200-889-7

**Classification transport**  
ONU: 1120  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H332-H319-H335  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233

### tert-Butanol > RS - Anhydrous - For analysis

RS

Refractive index at 25°C ..... 1.383 - 1.387  
Colour ..... ≤ 10 Hazen

Water content (K.F) ..... ≤ 200 mg/Kg  
Non volatile residue ..... ≤ 10 mg/Kg

Assay (GC) ..... ≥ 99.7 %  
2- Propanol ..... ≤ 0.30 %

Code	Size	Packaging	Notes
P0191016	1 l	Glass bottle	

### tert-Butanol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear colourless liq. or solid  
Colour (APHA) ..... ≤10  
Identification (I.R.) ..... Conform

Water solubility ..... Conform  
Alcohol miscibility ..... Conform  
Boiling point ..... 81.7 ÷ 82.7 °C

Melting point ..... 25 ÷ 26 °C  
Water (K.F) ..... ≤0.1 %  
Residue on evaporation ..... ≤30 ppm

Acidity ..... ≤ 0.001 meq/g  
Assay (GLC) ..... ≥99.5 %  
Carbonyl compounds (as HCHO) .. ≤ 0.01 %

Code	Size	Packaging	Notes
414343	500 ml	Plastic bottle	
414341	1 l	Glass bottle	
414346	2.5 l	Plastic bottle	
414342	25 l	Plastic tank	

### tert-Butanol > RE - Pure

RE

Refractive index at 25°C ..... 1.383 - 1.387  
Colour ..... ≤ 10 Hazen

Water content (K.F) ..... ≤ 800 mg/Kg  
Non volatile residue ..... ≤ 20 mg/Kg

Assay (GC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
P0190222	5 l	Plastic tank	
P0190268	200 l	Metal drum	

## 2-Butanone ▶ Ethyl methyl ketone



### 2-Butoxy ethanol

• 2-Butossietanolo • 2-Butoxyéthanol • 2-Butoxietanol • 2-Butoxyethanol

Synonym:

- Ethylene glycol butyl ether
- Butyl glycol

$\text{CH}_3(\text{CH}_2)_3\text{OCH}_2\text{CH}_2\text{OH}$   
Molecular Weight: 118,18  
CAS: 111-76-2  
EEC-N: 203-905-0



#### Warning

H302-H312-H332-H315-H319  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P337+P313

### 2-Butoxy ethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid      Density at 20° C ..... 0.897 ÷ 0.905      Boiling point ..... 167 ÷ 172 ° C      Residue on evaporation ..... ≤50 ppm  
Identification ..... Positive      Refractive index at 20°C. 1.4167 ÷ 1.4207      Water (K.F.) ..... ≤ 0.1 %      Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
453941	1 l	Glass bottle	



### 2-(2-Butoxyethoxy)ethanol

• 2-(2-Butossietossi)etanolo • 2-(2-Butoxyéthoxy)éthanol • 2-(2-Butoxietoxi) etanol  
• 2-(2-Butoxyethoxy)ethanol

Synonym:

- Diethylene glycol butyl ether
- BDG

$\text{C}_8\text{H}_{18}\text{O}_3$   
Molecular Weight: 162,23  
CAS: 112-34-5  
EEC-N: 203-961-6



#### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### 2-(2-Butoxyethoxy)ethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid      Refractive index at 20°C. 1.4296 ÷ 1.4346      Alkalinity (NH<sub>3</sub>) ..... ≤0.85 ppm      Residue on ignition ..... ≤20 ppm  
Identification ..... Positive      Boiling point ..... 230.0 ÷ 232.0 °C      Carbonyl Compounds (CO) ..... ≤500 ppm      Fe ..... ≤2 ppm  
Water miscibility ..... Conform      Water (K.F.) ..... ≤0.2 %      Heavy metals (Pb) ..... ≤2 ppm      Assay (GLC) ..... ≥99 %  
Density at 20° C ..... 0.951 ÷ 0.959      Acidity (acetic acid) ..... ≤300 ppm      Peroxides (H<sub>2</sub>O<sub>2</sub>) ..... ≤250 ppm

Code	Size	Packaging	Notes
453881	1 l	Glass bottle	
453883	25 kg	Metal drum	



### n-Butyl acetate

• n-Butile acetato • n-Butyle acétate • n-Butilo acetate • n-Butylacetat

$\text{CH}_3\text{COO}(\text{CH}_2)_3\text{CH}_3$   
Molecular Weight: 116,16  
CAS: 123-86-4  
EEC-N: 204-658-1

#### Classification transport

ONU: 1123  
Transport Hazard class: 3  
Packing group III



#### Warning

H226-H336-HEU066  
P210-P241-P280-P303+P361+P353-P304+P340-  
P403+P233

### n-Butyl acetate > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.392 - 1.396      Non volatile residue ..... ≤ 10 mg/Kg      Assay (GC) ..... ≥ 99.5 %  
Water content (K.F.) ..... ≤ 100 mg/Kg      Colour ..... ≤ 10 Hazen      Free acid (as CH<sub>3</sub>COOH) ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0011016	1 l	Glass bottle	
P0011021	2.5 l	Glass bottle	

## n-Butyl acetate > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Water (K.F) .....	≤0.1 %	Total silicon .....	≤0.02 ppm	Na .....	≤0.2 ppm
Identification (I.R.) .....	Conform	Butan-1-ol .....	≤0.5 %	Total sulphur .....	≤0.5 ppm	Pb .....	≤0.05 ppm
Ready carbonizable substances .....	Conform	n-Butyl formate .....	≤0.1 %	Ca .....	≤0.2 ppm	Zn .....	≤0.1 ppm
Density at 20° C .....	0.878 ÷ 0.884	Butyl propanoate .....	≤0.1 %	Cu .....	≤0.2 ppm	Assay (GLC) .....	≥99 %
Refractive index at 20°C .....	1.3926 ÷ 1.3976	iso-Butyl acetate .....	≤0.5 %	Fe .....	≤0.1 ppm		
Boiling point .....	126.0 ÷ 127.0 °C	Residue on evaporation .....	≤10 ppm	K .....	≤0.2 ppm		
Acidity or alkalinity .....	≤0.001 meq/g	Total phosphorus .....	≤0.2 ppm	Mg .....	≤0.02 ppm		

Code	Size	Packaging	Notes
431601000	1 l	Glass bottle	
431602000	2.5 l	Glass bottle	
431604	200 l	Metal drum	

## n-Butyl acetate > RE - Pure

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3911 ÷ 1.3991	Residue on evaporation .....	≤100 ppm
Identification .....	Positive	Boiling point .....	123 ÷ 128 °C	Acidity (acetic acid) .....	≤300 ppm
Density at 20° C .....	0.876 ÷ 0.886	Water (K.F) .....	≤0.1 %	Assay (GLC) .....	≥99 %

Code	Size	Packaging	Notes
325602	1 l	Glass bottle	
325601	2.5 l	Glass bottle	
325604	5 l	Plastic tank	
325603	24 kg	Metal drum	

## n-Butyl alcohol ► Butanol-1

## sec-Butyl alcohol ► Butanol-2



## n-Butyl chloride

• n-Butile cloruro • n-Butyle chlorure • n-Butilo cloruro • n-Butylchlorid

Synonym:  
1-Chlorobutane

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>Cl  
Molecular Weight: 92,57  
CAS: 109-69-3  
EEC-N: 203-696-6

**Classification transport**  
ONU: 1127  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H304-H412  
P210-P241-P280-P301+P310a-P303+P361+P353-  
P403+P235

## n-Butyl chloride > RS - For HPLC - Isocratic Grade

**RS**

Clear, colourless liq. appearance .....	Conform	Refractive index at 20°C .....	1.400 - 1.404	Non volatile residue .....	≤ 10 mg/Kg	UV transmittance at 250 nm .....	≥ 98 %
Identification .....	Conform	Water content (K.F) .....	≤ 100 mg/Kg	UV transmittance at 230 nm .....	≥ 65 %	UV transmittance at 240 nm .....	≥ 95 %
Colour .....	≤ 10 Apha	Free acid (as HCl) .....	≤ 10 mg/Kg	UV transmittance at 235 nm .....	≥ 90 %	Assay (GC) .....	≥ 99.8 %



Code	Size	Packaging	Notes
431821	1 l	Glass bottle	

## n-Butyl chloride > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3981 ÷ 1.4061	Colour .....	≤ 10 APHA	Water (K.F) .....	≤ 150 ppm
Identification .....	Positive	Assay (GLC) .....	≥ 99.5 %	1-Butanol .....	≤ 0.05 %	Residue on evaporation .....	≤ 10 ppm

Code	Size	Packaging	Notes
431811	100 ml	Glass bottle	
431817	1 l	Glass bottle	



	<b>Butylhydroxytoluene</b>	Synonym:
	• Butile idrossitoluene • Butylhydroxytoluène • Butil hidroxitolueno • Butylhydroxytoluol	• 2,6-Di-tert-butyl-p-cresol • BHT
<chem>[(CH3)3C]2C6H2(CH3)OH</chem> Molecular Weight: 220,36 CAS: 128-37-0 EEC-N: 204-881-4		 <b>Warning</b> H410 P273-P391-P501a

### Butylhydroxytoluene > RPE - For analysis

RPE

Description ..... White semitransparent crystals    Melting point ..... 69.0 ÷ 71.0 ° C    Assay (GLC) ..... 99 ÷ 100 %  
 Identification ..... Positive    Water (K.F.) ..... ≤ 0.12 %

Code	Size	Packaging	Notes
432121	25 g	Glass bottle	

	<b>tert-Butylmethylether</b>	Synonym:
	• ter-Butilmetiletere • tert-Butylméthyléther • ter-Butilmetiléter • tert-Butylmethylether	• MTBE • Methyl tert-butyl ether
<chem>CH3OC4H9</chem> Molecular Weight: 88,15 CAS: 1634-04-4 EEC-N: 216-653-1		 <b>Danger</b> H225-H315 P210-P241-P280-P303+P361+P353-P332+P313-P403+P235
Classification transport ONU: 2398 Transport Hazard class: 3 Packing group II		

### tert-Butylmethylether > RS - For HPLC - Isocratic Grade

RS

Refractive index at 20°C ..... 1.367 - 1.371    Water content (K.F.) ..... ≤ 100 mg/Kg    UV transmittance at 280 nm ..... ≥ 92 %    Non volatile residue ..... ≤ 10 mg/Kg  
 Clear, colourless liq. appearance ..... Conform    UV transmittance at 210 nm ..... ≥ 10 %    UV transmittance at 300 nm ..... ≥ 98 %    Hydrocarbons up to C8 ..... ≤ 0.05 %  
 Identification ..... Conform    UV transmittance at 230 nm ..... ≥ 40 %    Assay (GC) ..... ≥ 99.8 %  
 Colour ..... ≤ 10 Apha    UV transmittance at 250 nm ..... ≥ 75 %    Methanol + tert-butanol ..... ≤ 0.05 %

Code	Size	Packaging	Notes
432031	1 l	Glass bottle	
432032	2.5 l	Glass bottle	
432034	4 l	Glass bottle	

### tert-Butylmethylether > RS - For preparative HPLC

RS

Description ..... Clear colourless liquid    Boiling point ..... 54.8 ÷ 55.8 ° C    Residue on evaporation ..... ≤ 2 ppm    at 240 nm ..... ≥ 60 %  
 Identification ..... Positive    Acidity or alkalinity ..... ≤ 0.0002 meq/g    Assay (GLC) ..... ≥ 99.5 %    at 270 nm ..... ≥ 95 %  
 Density at 20° C ..... 0.730 ÷ 0.750    Water (K.F.) ..... ≤ 200 ppm    U.V. Transmittance

Code	Size	Packaging	Notes
432022000	2.5 l	Glass bottle	

### tert-Butylmethylether > RS - PESTIPUR - For pesticide analysis

RS

Appearance ..... Clear colourless liquid    Assay (GC) ..... ≥ 99.8 %    Ret. range 1,2,4-trichlorobenzene    Retention time Atrazin to Coumaphos  
 Refractive index at 20°C ..... 1.367 - 1.371    Non volatile residue ..... ≤ 5 mg/Kg    GC-NPD. Individual peak (Ethylparathion) ≤ 3    ng/l  
 Water content (K.F.) ..... ≤ 100 mg/Kg    GC-ECD. Individual peak (Lindane) .. ≤ 3 ng/l    to decachlorobiphenyle  
 Colour ..... ≤ 10 Hazen    Retention time trichlorobenzene to mirex

Code	Size	Packaging	Notes
432061	1 l	Glass bottle	
432062	2.5 l	Glass bottle	

### For chlorinated and nitrogenous compounds analysis

### tert-Butylmethylether > RS - SPECTROSOL - For optical spectroscopy

RS

Clear, colourless liq. appearance ..... Conform    Water content (K.F.) ..... ≤ 100 mg/Kg    UV transmittance at 280 nm ..... ≥ 92 %    Non volatile residue ..... ≤ 10 mg/Kg  
 Identification ..... Conform    UV transmittance at 210 nm ..... ≥ 10 %    UV transmittance at 300 nm ..... ≥ 98 %    Hydrocarbons up to C8 ..... ≤ 0.05 %  
 Colour ..... ≤ 10 Apha    UV transmittance at 230 nm ..... ≥ 40 %    Methanol + tert-butanol ..... ≤ 0.05 %  
 Refractive index at 20°C ..... 1.367 - 1.371    UV transmittance at 250 nm ..... ≥ 75 %    Assay (GC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
432001	1 l	Glass bottle	
432002	2.5 l	Glass bottle	

## tert-Butylmethylether > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C ..... 1.367 - 1.371    Non volatile residue ..... ≤ 10 mg/Kg    Assay (GC) ..... ≥ 99.8 %    Hydrocarbons up to C8 ..... ≤ 0.05 %  
 Water content (K.F.) ..... ≤ 100 mg/Kg    Colour ..... ≤ 10 Hazen    Methanol + tert-butanol ..... ≤ 0.05 %

Code	Size	Packaging	Notes
P0921016	1 l	Glass bottle	

## tert-Butylmethylether > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Boiling point ..... 53 ÷ 56 °C    Methyl alcohol ..... ≤ 0.1 %  
 Identification ..... Positive    Water (K.F.) ..... ≤ 100 ppm    Refractive index at 20°C ..... 1.368 ÷ 1.370  
 Density at 20° C ..... 0.739 ÷ 0.742    Peroxides (H2O2) ..... ≤ 10 ppm    Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
432011	500 ml	Glass bottle	
432013	2.5 l	Glass bottle	
432015	20 kg	Aluminium can	

## tert-Butylmethylether > RE - Pure

**RE**

Description ..... Clear liquid    Refractive index at 20°C ..... 1.3635 ÷ 1.3735    Water (K.F.) ..... ≤ 300 ppm    Assay (GLC) ..... ≥ 99.9 %  
 Density at 20° C ..... 0.739 ÷ 0.741    Boiling point ..... 54.8 ÷ 55.8 °C    Residue on evaporation ..... ≤ 30 ppm    Methanol + tert-butanol ..... ≤ 0.1 %

Code	Size	Packaging	Notes
528974	1 l	Glass bottle	
528970	5 l	Plastic tank	
528971	25 l	Metal drum	
528979	200 l	Metal drum	



## n-Butyric acid

• Acido n-butirrico • Acide n-butyrique • Acido n-butírico • Buttersäure

CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>COOH  
 Molecular Weight: 88,11  
 CAS: 107-92-6  
 EEC-N: 203-532-3

**Classification transport**  
 ONU: 2820  
 Transport Hazard class: 8  
 Packing group III



**Danger**  
 H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## n-Butyric acid > RPE - For analysis - Reag. Ph. Eur.

**RPE**

Description ..... Clear colourless liquid    Refractive index at 20°C ..... 1.3961 ÷ 1.4021    Cd ..... ≤ 1 ppm    Assay (GLC) ..... ≥ 99 %  
 Identification ..... Positive    Boiling point ..... 163.0 ÷ 164.0 °C    Hg ..... ≤ 1 ppm  
 Density at 20° C ..... 0.953 ÷ 0.957    As ..... ≤ 3 ppm    Pb ..... ≤ 10 ppm

Code	Size	Packaging	Notes
403236	250 ml	Glass bottle	





## Cadmium standard solution

• Cadmio standard soluzione • Cadmium standard solution • Cadmio, solución patrón • Cadmium-Standardlösung



### Danger

H290-H340-H350-H373-HA26-HEU207  
P260-P280-P308+P313-P314-P406-P501a

### Cadmium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000700	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5000700
615000709	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5000701

### Cadmium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505547	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505548	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505549	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Cadmium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503491	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503493	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503495	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503497	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Cadmium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507529	100 ml	Plastic bottle	conc. 1000 ppm Matrix: Nitric acid
507483	500 ml	Plastic bottle	conc. 1000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Cadmium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
432311		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

### Cadmium standard solution > RS - Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504360	50 ml	Plastic bottle	conc. 5 ppb - Matrix: 2% Nitric acid

**Cadmium acetate dihydrate**

• Cadmio acetato diidrato • Cadmium acetate dihydrate • Cadmio acetato dihidrato • Cadmiumacetat-Dihydrat

$\text{Cd}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$   
 Molecular Weight: 266,52  
 CAS: 5743-04-4  
 EEC-N: 208-853-2

**Classification transport**  
 ONU: 2570  
 Transport Hazard class: 6.1  
 Packing group III



**Danger**  
 H301-H312-H330-H340-H350-H361d-H372-H410-HA26  
 P271-P280-P284-P301+P310a-P304+P340-P403+P233

**Cadmium acetate dihydrate > RPE - For analysis****RPE**

Description ..... White crystals      Nitrate ..... ≤ 30 ppm      Cu ..... ≤ 10 ppm      Zn ..... ≤ 50 ppm  
 Identification ..... Positive      Substances not ppt. H<sub>2</sub>S ..... ≤ 0.3 %      Fe ..... ≤ 10 ppm      Assay (complexometric) ..... ≥ 97.5 %  
 Water-insoluble matter ..... ≤ 0.005 %      Sulphate ..... ≤ 50 ppm      Pb ..... ≤ 50 ppm

Code	Size	Packaging	Notes
432344	100 g	Glass bottle	
432345	250 g	Plastic bottle	
432347	1 kg	Plastic bottle	

**Cadmium carbonate**

• Cadmio carbonato • Cadmium carbonate • Cadmio carbonato • Cadmiumcarbonat

Synonym:  
Otavite

$\text{CdCO}_3$   
 Molecular Weight: 172,42  
 CAS: 513-78-0  
 EEC-N: 208-168-9

**Classification transport**  
 ONU: 2570  
 Transport Hazard class: 6.1  
 Packing group II



**Danger**  
 H302-H312-H330-H340-H350-H372-H410-HA26  
 P280-P284-P304+P340-P310a-P320-P330-P362+P364-P403+P233

**Cadmium carbonate > RPE - For analysis****RPE**

Description ..... White powder      HCl-insoluble matter ..... ≤ 100 ppm      Pb ..... ≥ 100 ppm  
 Identification ..... Positive      Cu ..... ≤ 100 ppm      Assay (complexometric) ..... 97 ÷ 100 %

Code	Size	Packaging	Notes
432444	100 g	Glass bottle	
432446	500 g	Plastic bottle	

**Cadmium chloride monohydrate**

• Cadmio cloruro monoidrato • Cadmium chlorure monohydraté • Cadmio cloruro monohidrato • Cadmiumchlorid monohydrat

$\text{CdCl}_2 \cdot \text{H}_2\text{O}$   
 Molecular Weight: 201,32  
 CAS: 35658-65-2  
 EEC-N: 233-296-7

**Classification transport**  
 ONU: 2570  
 Transport Hazard class: 6.1  
 Packing group III



**Danger**  
 H301-H332-H350-H372-H410-HA26  
 P271-P280-P301+P310a-P330-P304+P340-P308+P313

**Cadmium chloride monohydrate > RE - Pure****RE**

Description ..... White crystals      Sulphate ..... ≤ 200 ppm      Pb ..... ≤ 50 ppm  
 Identification ..... Positive      Cu ..... ≤ 20 ppm      Zn ..... ≤ 200 ppm  
 Substances not ppt. H<sub>2</sub>S ..... ≤ 0.2 %      Fe ..... ≤ 10 ppm      Assay ..... ≥ 98 %

Code	Size	Packaging	Notes
325741	100 g	Glass bottle	



## Cadmium nitrate tetrahydrate

• Cadmio nitrato tetraidrato • Cadmium nitrate tétrahydraté • Cadmio nitrato tetrahidratado  
• Cadmiumnitrat-Tetrahydrat

Synonym:  
Nitric acid, cadmium salt tetrahydrate

$Cd(NO_3)_2 \cdot 4H_2O$   
Molecular Weight: 308,47  
CAS: 10022-68-1  
EEC-N: 233-710-6

**Classification transport**  
ONU: 2570  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H302-H312-H332-H340-H350-H372-H410-HA26  
P271-P280-P304+P340-P308+P313-P330-  
P362+P364

### Cadmium nitrate tetrahydrate > RPE - For analysis

**RPE**

Description ..... White crystals Chloride ..... ≤ 50 ppm Pb ..... ≤ 50 ppm  
Identification ..... Positive Cu ..... ≤ 30 ppm Sulfate ..... ≤ 0.003 %  
Water-insoluble matter ..... ≤ 100 ppm Fe ..... ≤ 10 ppm Assay (complexometric) ..... ≥ 99 %

Code	Size	Packaging	Notes
432644	100 g	Glass bottle	
432645	500 g	Glass bottle	



## Caffeine anhydrous

• Caffèina anidra • Caféine anhydre • Cafeína anhidra • Wasserfreies Koffein

Synonym:  
1,3,7-Trimethylxanthine

$C_8H_{10}N_4O_2$   
Molecular Weight: 194,19  
CAS: 58-08-2  
EEC-N: 200-362-1



**Warning**  
H302  
P264-P270-P301+P312a-P330-P501a

### Caffeine anhydrous > ERBapharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBapharm**

Description ..... White crystalline powder Related substances ..... Conform Ph.Eur. Melting point ..... 235 ÷ 239 °C s.s. Sulphate ..... ≤ 500 ppm  
Identification ..... Positive Organic volatile impurities Conform USP-NF Loss on drying ..... ≤ 0.5 % Impurity (HPLC) ..... ≤ 0.1 %  
Appearance of solution ..... Conform Ph.Eur. Ready carbonizable substances ..... Conform USP-NF Sulphated ash ..... ≤ 0.1 % Assay (non-aqueous medium) .98.5 ÷ 101.0 % s.s.  
Acidity ..... Conform Ph.Eur. Other alkaloids ..... Conform USP-NF Heavy metals (Pb) ..... ≤ 10 ppm Assay (HPLC) ..... 98.5 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
326356	500 g	Plastic bottle	
326357	1 kg	Plastic bottle	
326358	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Calcium standard solution

• Calcio standard soluzione • Calcium standard solution • Calcio, solución patrón • Calcium-Standardlösung

Ca  
CAS: 7440-70-2

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Calcium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

**RS**

Code	Size	Packaging	Notes
615000801	100 ml	Plastic bottle	A 100 ppm solution: to dilute according to Ref Ph.Eur 5000801
615000802	100 ml	Plastic bottle	A 100 ppm alcoholic solution: to dilute according to Ph.Eur 5000802
615000803	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5000803
615000804	100 ml	Plastic bottle	A 100 ppm solution R1: to dilute according to Ref Ph.Eur 5000804
615000809	100 ml	Plastic bottle	A 400 ppm solution: to dilute according to Ref Ph.Eur 5000800

## Calcium standard solution &gt; RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505542	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505545	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505543	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Calcium standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503481	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503483	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503485	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503487	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Calcium standard solution &gt; RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507530	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507476	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497485	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497481	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Calcium standard solution &gt; RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
432941		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Calcium standard solution &gt; RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503221	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503223	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503389	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water and nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Calcium acetate anhydrous

• Calcio acetato anidro • Calcium acétate anhydre • Calcio acetato anhidro • Calciumacetat wasserfrei

Ca(CH<sub>3</sub>COO)<sub>2</sub>  
Molecular Weight: 158,17  
CAS: 62-54-4  
EEC-N: 200-540-9

### Calcium acetate anhydrous > ERBapharm - According to pharmacopoeia: BP

ERBapharm

Description .....	White powder	Water (K.F.) .....	≤ 7 %	Sulphate .....	≤ 600 ppm	K .....	≤ 0.1 %
Identification .....	Positive	Alcalinity .....	Conform	Al .....	≤ 1 ppm	Na .....	≤ 0.5 %
Nitrate .....	Conform BP	Chloride .....	≤ 330 ppm	As .....	≤ 2 ppm	Mg .....	≤ 500 ppm
Ready oxidizable substances .....	Conform BP	Heavy metals (Pb) .....	≤ 20 ppm	Ba .....	≤ 50 ppm	Assay (complexometric)	98.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
326511	1 kg	Plastic bottle	
326512	5 kg	Plastic tank	
326513	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

### Calcium acetate anhydrous > RE - Pure

RE

Description .....	White powder	Chloride .....	≤ 500 ppm	Heavy metals (Pb) .....	≤ 5 ppm	Fe .....	≤ 10 ppm
Identification .....	Positive	Water-insoluble matter .....	≤ 500 ppm	Sulphate .....	≤ 500 ppm	Assay .....	≥ 99 %
pH sol. 1% .....	7 ÷ 8	Loss on drying .....	≤ 6 %	As .....	≤ 2 ppm		

Code	Size	Packaging	Notes
326507	1 kg	Plastic bottle	
326503	25 kg	Plastic bucket	



## Calcium acetate monohydrate

• Calcio acetato monoidrato • Calcium acétate monohydrate • Calcio acetato monohidrato • Calciumacetat monohydrat

Ca(CH<sub>3</sub>COO)<sub>2</sub>·H<sub>2</sub>O  
Molecular Weight: 158,17  
CAS: 5743-26-0  
EEC-N: 611-528-1

### Calcium acetate monohydrate > RPE - For analysis

RPE

Description .....	White crystalline powder	Chloride .....	≤ 20 ppm	Sulphate .....	≤ 50 ppm	Na .....	≤ 500 ppm
Identification .....	Positive	Water insoluble substances .....	≤ 0.01 %	Ba .....	≤ 30 ppm	Sr .....	≤ 0.1 %
pH sol. 5% at 25° C .....	7.5 ÷ 8.5	Heavy metals (Pb) .....	≤ 10 ppm	Fe .....	≤ 10 ppm	Assay (complexometric) .....	≥ 99 %
Loss on drying .....	≤ 10 %	Nitrate .....	≤ 20 ppm	K .....	≤ 100 ppm		

Code	Size	Packaging	Notes
432985	250 g	Plastic bottle	
432987	1 kg	Plastic bottle	
432982	25 kg	Plastic bucket	



## Calcium carbonate

• Calcio carbonato • Calcium carbonate • Calcio carbonato • Calciumcarbonat

CaCO<sub>3</sub>  
Molecular Weight: 100,09  
CAS: 471-34-1

### Calcium carbonate > RS - For enviromental analysis

RS

Description .....	White powder	Sulphate .....	< 2000 ppm	As .....	< 4 ppm
Identification .....	Positive	Heavy metals (Pb) .....	< 20 ppm	Acid insoluble .....	< 0.2 %
Chloride .....	< 200 ppm	Perdita essiccamento (200°C) .....	< 0.5 %	Assay (complexometric) .....	> 98.5 % s.s.

Code	Size	Packaging	Notes
433216	500 g	Plastic bottle	

**Low content in alkali**

## Calcium carbonate > RS - For chromatography

**RS**

Description ..... White powder Identification ..... Positive

Code	Size	Packaging	Notes
433245	250 g	Plastic bottle	

## Calcium carbonate > RS - TOC standard

**RS**

Code	Size	Packaging	Notes
505008	100 ml	Plastic bottle	conc. 50 mg/l
505009	100 ml	Plastic bottle	conc. 100 mg/l

## Calcium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... White powder	Chloride ..... ≤ 10 ppm	Ba ..... ≤ 100 ppm	Na ..... ≤ 0.1 %
Identification ..... Positive	Fluoride ..... ≤ 15 ppm	Fe ..... ≤ 30 ppm	Sr ..... ≤ 0.1 %
Diluted hydrochloric acid insoluble... ≤ 100 ppm	Sulphate ..... ≤ 100 ppm	K ..... ≤ 100 ppm	Assay (complexometric) 99.0 ÷ 100.5 % s.s.
Ammonium ..... ≤ 30 ppm	Heavy metals (Pb) ..... ≤ 10 ppm	Mg ..... ≤ 200 ppm	As ..... ≤ 4 ppm

Code	Size	Packaging	Notes
433185	250 g	Plastic bottle	
433187	1 kg	Plastic bottle	
433183	25 kg	Sack	

## Calcium carbonate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP

**ERBApharm**

Description ..... White powder	Magnesium and alkali metals ..... ≤ 1.0 %	Fluoride ..... ≤ 50 ppm	Hg ..... ≤ 0.5 ppm
Identification ..... Positive	Substances insoluble in acetic acid ≤ 0.2 %	Sulphate ..... ≤ 0.25 %	Pb ..... ≤ 3 ppm
Barium ..... Conform Ph.Eur.	Substances insoluble in hydrochloric acid .. ≤ 0.2 %	Heavy metals (Pb) ..... ≤ 20 ppm	Assay (complexometric) 98.5 ÷ 100.5 % s.s.
Organic volatile impurities Conform USP-NF	Chloride ..... ≤ 330 ppm	As ..... ≤ 3 ppm	Origin (BSE/TSE) ..... Synthesis
Loss on drying ..... ≤ 2.0 %		Fe ..... ≤ 200 ppm	Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
327101	1 kg	Plastic bottle	
327105	25 kg	Sack	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

## Calcium carbonate > RE - Pure

**RE**

Description ..... White powder	Assay (complexometric) ..... ≥ 98.0 %	Apparent density ..... 400 ÷ 600 g/l	As ..... ≤ 5 ppm
Identification ..... Positive	Soluble alkalies (NaCO <sub>3</sub> ) ..... ≤ 0.26 %	Heavy metals (Pb) ..... ≤ 30 ppm	Fe ..... ≤ 200 ppm
Loss on drying ..... ≤ 2 %	Chloride ..... ≤ 350 ppm	Sulphate ..... ≤ 0.8 %	Assay (alkalimetric) ..... 98.5 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
327002	2.5 kg	Plastic bottle	Light powder
327059	5 kg	Plastic tank	Heavy powder
327003	25 kg	Plastic bucket	Light powder



## Calcium chloride anhydrous

• Calcio cloruro anidro • Calcium chlorure anhydre • Calcio cloruro anhidro • Calciumchlorid wasserfrei

CaCl<sub>2</sub>  
 Molecular Weight: 110,99  
 CAS: 10043-52-4  
 EEC-N: 233-140-8


**Warning**

H319

P264-P280i-P305+P351+P338-P337+P313

## Calcium chloride anhydrous > RS - For microanalysis

**RS**

Description ..... White granules Identification ..... Positive Diameter ..... 1 - 6 mm Assay (complexometric) ..... ≥ 96 %

Code	Size	Packaging	Notes
433535	250 g	Plastic bottle	Granular



## Calcium chloride anhydrous > RPE - For analysis

**RPE**

Description ..... White powder      Alkalinity ..... < 0.3 %      Heavy metals (Pb) ..... < 50 ppm      Mg ..... < 0.1 %  
 Identification ..... Positive      Water-insoluble matter ..... < 0.1 %      Ba ..... < 100 ppm      Assay (complexometric) ..... ≥ 96.0 %  
 Acidity ..... < 50 ppm      Sulphate ..... < 500 ppm      Fe ..... < 50 ppm

Code	Size	Packaging	Notes
433403	100 g	Plastic bottle	
433406	500 g	Plastic bottle	
433407	1 kg	Plastic bottle	
433405	25 kg	Drum	

## Calcium chloride anhydrous > RE - Pure - Powder

**RE**

Description ..... White powder      Water insoluble Matter ..... ≤ 0.1 %      Assay (complexometric) ..... ≥ 96 %  
 Identification ..... Positive      Heavy metals (Pb) ..... ≤ 50 ppm

Code	Size	Packaging	Notes
328257	1 kg	Plastic bottle	
328258	5 kg	Plastic tank	
328252	25 kg	Plastic bucket	

## Calcium chloride anhydrous > RE - Pure - Granular

**RE**

Description ..... white pellets      Diameter ..... 15 - 30 mm      Assay (complexometric) ..... ≥ 90 %  
 Identification ..... Positive      Granulo 1,25-5 mm ..... ≥ 75 %

Code	Size	Packaging	Notes
328757	1 kg	Plastic bottle	Ø 1.25 - 4 mm
328807	1 kg	Plastic bottle	Ø 15-30 mm
328759	5 kg	Plastic tank	Ø 1.25 - 4 mm
328809	5 kg	Plastic tank	Ø 15-30 mm



## Calcium chloride dihydrate

• Calcio cloruro biidrato • Calcium chlorure dihydraté • Calcio cloruro dihidrato • Calciumchlorididihydrat

CaCl<sub>2</sub>·2H<sub>2</sub>O  
 Molecular Weight: 147,02  
 CAS: 10035-04-8  
 EEC-N: 233-140-8



### Warning

H302-H319  
 P264-P280i-P301+P312a-P305+P351+P338-  
 P337+P313-P501a

## Calcium chloride dihydrate > RPE - For analysis - ACS

**RPE**

Description ..... White crystalline powder      Heavy metals (Pb) ..... ≤ 5 ppm      K ..... ≤ 100 ppm      Sr ..... ≤ 0.1 %  
 Identification ..... Positive      Sulphate ..... ≤ 100 ppm      Mg ..... ≤ 50 ppm      Ammonium ..... ≤ 50 ppm  
 pH sol. 5% at 25° C ..... 4.5 ÷ 8.5      Ba ..... ≤ 50 ppm      Assay (complexometric) ..... 99.0 ÷ 105.0 %      Oxidizing substances ..... ≤ 30 ppm  
 Water-insoluble matter ..... ≤ 100 ppm      Fe ..... ≤ 10 ppm      Na ..... ≤ 0.02 %

Code	Size	Packaging	Notes
433386	100 g	Plastic bottle	
433387	500 g	Plastic bottle	
433381	1 kg	Plastic bottle	
433382	5 kg	Plastic tank	
433384	25 kg	Plastic bucket	

## Calcium chloride dihydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB ERBApharm

Description .....	White crystalline powder	Ba .....	Conform Ph.Eur.	Sulphate .....	≤ 300 ppm	Assay (complexometric) ....	99.0 ÷ 103.0 %
Identification .....	Positive	Fe,Al and Phosphate .....	Conform USP-NF	Mg and alkaline metals.....	≤ 0.5 %	Origin (BSE/TSE).....	Synthesis
Appearance of solution .....	Conform Ph.Eur.	pH (1:20).....	4.5 ÷ 9.2	Al .....	≤ 1 ppm	Residual solvents (Current ICH).....	Conform
Acidity or alkalinity.....	Conform Ph.Eur.	Heavy metals (Pb).....	≤ 10 ppm	Fe .....	≤ 10 ppm		

Code	Size	Packaging	Notes
327607	1 kg	Plastic bottle	
327609	5 kg	Plastic tank	
327603	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Calcium chloride hexahydrate

• Calcio cloruro esaidrato • Calcium chlorure hexahydraté • Calcio cloruro hexahidrato • Calciumchloridhexahydrat

CaCl<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 219,08  
CAS: 7774-34-7  
EEC-N: 233-140-8



### Warning

H302-H319  
P264-P280i-P301+P312a-P305+P351+P338-  
P337+P313-P501a

## Calcium chloride hexahydrate > RPE - For analysis

**RPE**

Description .	White semitransparent crystals	Phosphate .....	≤ 10 ppm	Ba .....	≤ 50 ppm	Pb.....	≤ 5 ppm
Identification .....	Positive	Water ins.ble/ppt NH4OH.....	≤ 100 ppm	Cu .....	≤ 5 ppm	Zn .....	≤ 10 ppm
Oxidizing substances (NO3).....	≤ 30 ppm	Heavy metals (Pb).....	≤ 5 ppm	Fe .....	≤ 25 ppm	Assay (complexometric) .....	≥ 98.0 %
pH sol. 5% at 25° C .....	4.5 ÷ 8.5	Sulphate .....	≤ 100 ppm	Mg .....	≤ 50 ppm	Mn .....	≤ 5 ppm
Ammonium .....	≤ 50 ppm	As .....	≤ 1 ppm	Ni .....	≤ 5 ppm	Sr .....	≤ 100 ppm

Code	Size	Packaging	Notes
433377	1 kg	Plastic bottle	
433371	5 kg	Plastic tank	
433375	25 kg	Drum	

## Calcium chloride hexahydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.

**ERBApharm**

Description .....	White crystalline mass	Acidity or alkalinity.....	Conform Ph.Eur.	Ba .....	Conform Ph.Eur.	Mg and alkaline metals.....	≤ 0.3 %
Identification .....	Positive	Sulphate .....	≤ 200 ppm	Heavy metals (Pb).....	≤ 15 ppm	Assay (complexometric) ....	97.0 ÷ 103.0 %
Appearance of solution .....	Conform Ph.Eur.	Al .....	Conform Ph.Eur.	Fe .....	≤ 7 ppm		

Code	Size	Packaging	Notes
327507	1 kg	Plastic bottle	
327509	5 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Calcium chloride solution 0.025%

• Calcio cloruro soluzione 0.025% • Calcium chlorure solution 0.025% • Calcio cloruro solución 0.025% • Calciumchlorid 0.025%

## Calcium chloride solution 0.025% > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Identification .....	Positive	Assay (complexometric) .....	0.022 ÷ 0.028 %
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Code	Size	Packaging	Notes
E433427	1 l	Plastic bottle	

## Calcium dihydrogenphosphate monohydrate ▶ Calcium phosphate monobasic monohydrate



## Calcium fluoride

• Calcio fluoruro • Calcium fluorure • Calcio fluoruro • Calciumfluorid

Synonym:  
Fluorite

CaF<sub>2</sub>  
Molecular Weight: 78,08  
CAS: 7789-75-5  
EEC-N: 232-188-7



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Calcium fluoride > RPE - For analysis

RPE

Description ..... White powder      Chloride..... ≤ 0.1 %      Cr..... ≤ 5 ppm      Mn ..... ≤ 1 ppm  
Identification ..... Positive      Sulphate..... ≤ 50 ppm      Cu..... ≤ 1 ppm      Ni ..... ≤ 5 ppm  
Loss on ignition..... ≤ 0.5 %      Co..... ≤ 5 ppm      Fe ..... ≤ 10 ppm      Assay (complexometric) ..... ≥ 98 %

Code	Size	Packaging	Notes
433585	250 g	Plastic bottle	
433587	1 kg	Plastic bottle	



## Calcium gluconate

• Calcio gluconato • Calcium gluconate • Calcio gluconato • Calciumgluconat

C<sub>12</sub>H<sub>22</sub>CaO<sub>14</sub>·H<sub>2</sub>O  
Molecular Weight: 448,39  
CAS: 18016-24-5

### Calcium gluconate > ERBapharm - According to pharmacopoeia: FU-Ph.Eur.

ERBapharm

Description ..... White crystalline powder      Saccharose and red. sug. .... Conform Ph.Eur.      Sulphate ..... ≤ 100 ppm      TYMC ..... ≤ 100 CFU/g  
Identification ..... Positive      Mg and alkaline metals..... ≤ 0.4 %      Assay (complexometric) .... 98.5 ÷ 102.0 %  
Organic imp., boric ac..... Conform Ph.Eur.      Heavy metals (Pb)..... ≤ 10 ppm      TAMC ..... ≤ 1000 CFU/g

Code	Size	Packaging	Notes
330608	1 kg	Plastic bottle	
330609	5 kg	Plastic tank	
330601	25 kg	Sack	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*



## Calcium hydroxide

• Calcio idrossido • Calcium hydroxyde • Calcio hidróxido • Calciumhydroxid

Ca(OH)<sub>2</sub>  
Molecular Weight: 74,09  
CAS: 1305-62-0  
EEC-N: 215-137-3



### Danger

H315-H318  
P264-P280a-P305+P351+P338-P310a-P362+P364-  
P332+P313

### Calcium hydroxide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White powder      Total sulphur ..... ≤ 0.1 %      Assay (alkalimetric)..... ≥ 95.0 %      Mg ..... ≤ 0.5 %  
Identification ..... Positive      HCl-insoluble matter..... ≤ 300 ppm      K..... ≤ 500 ppm  
Carbonate..... ≤ 3.0 %      Heavy metals (Pb)..... ≤ 30 ppm      Na..... ≤ 500 ppm  
Chloride..... ≤ 300 ppm      Fe ..... ≤ 500 ppm      Sr..... ≤ 500 ppm

Code	Size	Packaging	Notes
433875	250 g	Plastic bottle	
433877	1 kg	Plastic bottle	
433874	25 kg	Plastic bucket	
433873	50 kg	Plastic drum	

## Calcium hydroxide > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP

ERBApharm

Description .....	White powder	Organic volatile impurities	Conform USP-NF	Mg and alkaline metals.....	≤ 4.0 %	Sulphate .....	≤ 0.4 %
Identification .....	Positive	HCl-insoluble matter.....	≤ 0.5 %	Assay (complexometric).....	95.0 ÷ 100.5 %	As .....	≤ 4 ppm
Carbonate.....	Conform USP-NF	Heavy metals (Pb).....	≤ 20 ppm	Chloride.....	≤ 330 ppm	Assay (alkalimetric).....	95.0 ÷ 100.5 %

Code	Size	Packaging	Notes
331007	1 kg	Plastic bottle	
331008	5 kg	Plastic tank	
331003	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Calcium hydroxide > RE - Pure

RE

Description .....	White powder	As .....	≤ 3 ppm	Assay (complexometric).....	≥ 95 %
Identification .....	Positive	Heavy metals (Pb).....	≤ 20 ppm		

Code	Size	Packaging	Notes
326454	1 kg	Plastic bottle	
326458	25 kg	Plastic bucket	



## Calcium lactate

• Calcio lattato • Calcium lactate • Calcio lattato • Calciumlactat

Synonym:  
L-Lactic acid calcium salt

$(\text{CH}_3\text{CHOHCOO})_2\text{Ca} \cdot 5\text{H}_2\text{O}$   
Molecular Weight: 308,29  
CAS: 5743-47-5  
EEC-N: 248-953-3

## Calcium lactate > ERBApharm - According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description .....	White crystalline powder	Acidity or alkalinity.....	Conform Ph.Eur.	Chloride.....	≤ 200 ppm	Sulphate .....	≤ 400 ppm
Identification .....	Positive	Ba .....	Conform Ph.Eur.	Heavy metals (Pb).....	≤ 10 ppm	Fe .....	≤ 50 ppm
Appearance of solution.....	Conform Ph.Eur.	Loss on drying .....	22.0 ÷ 27.0 %	Mg and alkaline metals.....	≤ 1 %	Assay (complexometric).....	98.0 ÷ 102.0 % s.s.

Code	Size	Packaging	Notes
331407	1 kg	Plastic bottle	
331408	5 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Calcium nitrate tetrahydrate

• Calcio nitrato tetraidrato • Calcium nitrate tétrahydraté • Calcio nitrato tetrahidrato • Calcium nitrate tetrahydrat

$\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$   
Molecular Weight: 236,15  
CAS: 13477-34-4  
EEC-N: 233-332-1

**Classification transport**  
ONU: 1454  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272-H315-H319  
P210-P280-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

## Calcium nitrate tetrahydrate > RPE - For analysis - ACS

RPE

Description .....	White crystals	Chloride.....	≤ 50 ppm	Ba .....	≤ 50 ppm	K.....	≤ 50 ppm
Identification .....	Positive	Nitrite .....	≤ 10 ppm	Fe .....	≤ 5 ppm	Na.....	≤ 100 ppm
pH sol. 5% at 25° C.....	5.0 ÷ 7.0	Sulphate .....	≤ 20 ppm	Assay (complexometric).....	99.0 ÷ 103.0 %	Sr.....	≤ 0.05 %
Water-insoluble matter .....	≤ 50 ppm	Heavy metals (Pb).....	≤ 5 ppm	Mg .....	≤ 0.05 %		

Code	Size	Packaging	Notes
433955	100 g	Plastic bottle	
433956	500 g	Plastic bottle	
433957	1 kg	Plastic bottle	
433951	5 kg	Plastic tank	

## Calcium nitrate tetrahydrate > RE - Pure

**RE**

Description .....	White crystals	Ammonium .....	≤0.5 %	Heavy metals (Pb).....	≤50 ppm	Assay (complexometric) .....	97 ÷ 100 %
Identification .....	Positive	Chloride.....	≤500 ppm	Sulphate.....	≤0.1 %		
pH sol. 5% at 25° C .....	4.0 ÷ 7.0	Water-insoluble matter .....	≤100 ppm	Fe .....	≤100 ppm		

Code	Size	Packaging	Notes
331509	5 kg	Plastic tank	
331501	25 kg	Drum	



## Calcium oxide, lumps

• Calcio ossido, pezzi • Calcium oxyde, morceaux • Calcio óxido, trozos • Calciumoxid, Klumpen

CaO  
Molecular Weight: 56,08  
CAS: 1305-78-8  
EEC-N: 215-138-9



### Danger

H315-H318-H335  
P261-P304+P340-P310a-P305+P351+P338-  
P362+P364-P403+P233

## Calcium oxide, lumps > RE - Pure

**RE**

Description .....	Whitish lumps	Loss on ignition.....	≤5 %	HCl-insoluble matter.....	≤0.5 %	Fe .....	≤0.2 %
Identification .....	Positive	Carbonate.....	≤5.0 %	As .....	≤10 ppm	Assay (alkalimetric).....	≥95 %

Code	Size	Packaging	Notes
331557	1 kg	Plastic bottle	
331555	25 kg	Plastic bucket	



## Calcium oxide, powder

• Calcio ossido, polvere • Calcium oxyde, poudre • Calcio óxido, polvo • Calciumoxid, Pulver

CaO  
Molecular Weight: 56,08  
CAS: 1305-78-8  
EEC-N: 215-138-9



### Danger

H315-H318-H335  
P261-P304+P340-P310a-P305+P351+P338-  
P362+P364-P403+P233

## Calcium oxide, powder > RE - Pure

**RE**

Description .....	White powder	Identification .....	Positive	Calcium carbonate .....	≤10 %	Loss on ignition.....	≤5 %
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Code	Size	Packaging	Notes
331567	1 kg	Plastic bottle	
331564	25 kg	Plastic bucket	



## Calcium pantothenate

• Calcio pantotenato • Calcium pantothénate • Calcio pantotenato • Calciumpantothenat

C<sub>18</sub>H<sub>32</sub>O<sub>10</sub>N<sub>2</sub>Ca  
Molecular Weight: 476,6  
CAS: 137-08-6  
EEC-N: 205-278-9

## Calcium pantothenate > ERBAPharm - According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-DAB-USP

**ERBAPharm**

Description .....	White powder	pH sol. 5% at 25° C .....	6.8 ÷ 8.0	3-Aminopropionic acid.....	≤ 0.5 %	Ca.....	8.2 ÷ 8.6 % s.s.
Identification .....	Positive	Specific optical rotation on dry .....	+25.5 ÷ +27.5 °	Chloride.....	≤ 200 ppm	Assay (protonometric).....	98.0 ÷ 101.0 % s.s.
Appearance of solution .....	Conform Ph.Eur.	Loss on drying .....	≤ 3.0 %	Heavy metals (Pb).....	≤ 20 ppm		
Organic volatile impurities	Conform USP-NF			N.....	5.7 ÷ 6.0 % s.s.		

Code	Size	Packaging	Notes
331602	100 g	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Calcium phosphate dibasic dihydrate

• Calcio fosfato bibasico diidrato • Calcium phosphate dibasique dihydraté • Calcio fosfato dibásico dihidrato • Calciumphosphat zweiwertiges Dihydrat

CaHPO<sub>4</sub>·2H<sub>2</sub>O  
Molecular Weight: 172,09  
CAS: 7789-77-7  
EEC-N: 231-826-1



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Calcium phosphate dibasic dihydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.

Franc.

**ERBApharm**

Description .....	White crystalline powder	Loss on ignition .....	24.5 ÷ 26.5 %	Heavy metals (Pb).....	≤30 ppm	Assay (complexometric) ....	98.0 ÷ 105.0 %
Identification .....	Positive	Chloride .....	≤0.25 %	Sulphate .....	≤0.5 %		
Carbonate.....	Conform Ph.Eur.	Fluoride .....	≤50 ppm	As .....	≤3 ppm		
Ba .....	Conform Ph.Eur.	HCl-insoluble matter .....	≤0.2 %	Fe .....	≤400 ppm		

Code	Size	Packaging	Notes
330307	1 kg	Plastic bottle	
330303	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Calcium phosphate monobasic monohydrate

• Calcio fosfato monobasico monoidrato • Calcium phosphate monobasique monohydraté  
• Calcio fosfato monobásico monohidrato • Einbasiges Calciumphosphat-Monohydrat

Synonym:

*Calcium dihydrogenphosphate monohydrate*

Ca(H<sub>2</sub>PO<sub>4</sub>)<sub>2</sub>·H<sub>2</sub>O  
Molecular Weight: 252,07  
CAS: 7758-23-8  
EEC-N: 231-837-1



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Calcium phosphate monobasic monohydrate > RPE - For analysis

**RPE**

Description .....	White crystalline powder	As .....	≤ 1 ppm	Pb .....	≤ 1 ppm
Identification (I.R.).....	Positive	Cd.....	≤ 1 ppm	Fluoride .....	≤ 30 ppm
Al .....	≤ 200 ppm	Hg.....	≤ 1 ppm	Assay (on dry) .....	≥ 95.0 %

Code	Size	Packaging	Notes
433685	250 g	Plastic bottle	



## Calcium phosphate tribasic

• Calcio fosfato tribasico • Calcium phosphate tribasique • Calcio fosfato tribásico  
• Calciumphosphat tribasisch

Synonym:

*tri-Calcium (ortho)phosphate*

Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>  
Molecular Weight: 310,18  
CAS: 7758-87-4  
EEC-N: 231-840-8

### Calcium phosphate tribasic > RPE - For analysis

**RPE**

Description .....	White powder	Loss on ignition .....	≤ 4 %	Pb .....	≤ 1 ppm	Zn .....	≤ 25 ppm
Identification .....	Positive	Heavy metals (Pb).....	≤ 10 ppm	Assay (acidimetric) .....	≥ 90 %	Assay (P205) .....	40.5 ÷ 42 %
pH sol 10%.....	6.5 ÷ 7.5	As .....	≤ 1 ppm	Cu + Zn.....	≤ 50 ppm		

Code	Size	Packaging	Notes
433774	100 g	Plastic bottle	
433776	500 g	Plastic bottle	



## Calcium phosphate tribasic > ERBApharm - According to pharmacopoeia: Ph.Eur.

**ERBApharm**

Description .....	White powder	Loss on ignition .....	≤ 8.0 %	Heavy metals (Pb).....	≤ 30 ppm	Fe .....	≤ 400 ppm
Identification .....	Positive	Chloride .....	≤ 0.15 %	Sulphate .....	≤ 0.5 %	Assay (complexometric) .....	35.0 ÷ 40.0 % Ca
HCl-insoluble matter .....	≤ 0.2 %	Fluoride .....	≤ 75 ppm	As .....	≤ 4 ppm		

Code	Size	Packaging	Notes
330407	1 kg	Plastic bottle	
330409	5 kg	Plastic bucket	
330403	25 kg	Fibre drum	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*



## Calcium stearate

• Calcio stearato • Calcium stéarate • Calcio estearato • Calciumstearat

Synonym:

- Octadecanoic acid calcium salt
- Stearic acid calcium salt

$C_{36}H_{70}CaO_4$   
Molecular Weight: 607,04  
CAS: 1592-23-0  
EEC-N: 216-472-8

## Calcium stearate > ERBApharm - Vegetal origin - According to pharmacopoeia: USP-NF

**ERBApharm**

Description .....	White powder	Heavy metals (Pb).....	≤ 10 ppm	Stearic acid.....	≥ 40.0 %
Identification .....	Positive	Origin (BSE/TSE).....	Vegetable	Stearic + palmitic acid.....	≥ 90.0 %
Loss on drying .....	≤ 4.0 %	Assay (complexometric) (d.s).....	6.4 ÷ 7.4 % (Ca)	Residual solvents (Current ICH).....	Conform

Code	Size	Packaging	Notes
332262	2.5 kg	Plastic bottle	
332261	10 kg	Plastic bucket	
332265	25 kg	Fibre drum	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*



## Calcium sulfate dihydrate

• Calcio solfato biidrato • Calcium sulfat dihydraté • Calcio sulfato dihidrato • Calciumsulfat-Dihydrat

$CaSO_4 \cdot 2H_2O$   
Molecular Weight: 172,17  
CAS: 10101-41-4  
EEC-N: 231-900-3

## Calcium sulfate dihydrate > RPE - For analysis - ACS

**RPE**

Description .....	White powder	HCl-insoluble matter .....	≤ 0.02 %	K.....	≤ 50 ppm	Assay (complexometric) .....	98 ÷ 102 %
Identification .....	Positive	Heavy metals (Pb).....	≤ 20 ppm	Mg .....	≤ 0.02 %		
Carbonate.....	Conform ACS	Nitrate .....	Conform ACS	Na .....	≤ 0.02 %		
Chloride.....	≤ 50 ppm	Fe .....	≤ 10 ppm	Sr.....	≤ 0.05 %		

Code	Size	Packaging	Notes
434155	100 g	Plastic bottle	
434156	500 g	Plastic bottle	
434151	25 kg	Plastic bucket	

## Calcium sulfate dihydrate > ERBApharm - According to pharmacopoeia: NF

**ERBApharm**

Description .....	White crystalline powder	Fe .....	≤ 100 ppm	Loss on drying .....	19.0 ÷ 23.0 %
Identification .....	Positive	Heavy metals (Pb).....	≤ 10 ppm	Assay .....	98.0 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
331752	5 kg	Plastic tank	
331751	25 kg	Sack	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*



### Calcium sulfate hemihydrate

• Calcio solfato emidratato • Calcium sulfate hemihydraté • Calcio sulfato hemihidratato • Calciumsulfat-Halbhydrat

CaSO<sub>4</sub>·1/2H<sub>2</sub>O  
Molecular Weight: 145,15  
CAS: 10034-76-1

#### Calcium sulfate hemihydrate > RE - Pure

RE

Description ..... White powder Identification ..... Positive Assay ..... ≥ 97 %

Code	Size	Packaging	Notes
331761	1 kg	Plastic bottle	
331762	5 kg	Plastic tank	
331763	25 kg	Plastic bucket	



### Calcium sulfate hemihydrate solution

• Calcio solfato emidratato soluzione • Calcium sulfate hemihydraté solution • Calcio sulfato hemihidratato solución • Calciumsulfat-Halbhydratlösung

#### Calcium sulfate hemihydrate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611015202	100 ml	Plastic bottle	Ref Ph.Eur 1015201
611015201	1 l	Plastic bottle	Ref Ph.Eur 1015201



### Calcon

• Calcone • Calcon • Calcón • Calcon

Synonym:  
1-(2-Hydroxy-1-naphthylazo)-2-naphthol-4-sulfonic acid sodium salt

C<sub>20</sub>H<sub>13</sub>N<sub>2</sub>NaO<sub>5</sub>S  
Molecular Weight: 416,39  
CAS: 2538-85-4  
EEC-N: 219-810-2



#### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233

#### Calcon > RPE - For analysis - C.I. 15705

RPE

Description ..... Deep purple powder Identification ..... Positive

Code	Size	Packaging	Notes
434171	25 g	Glass bottle	

**Complexometric indicator for Al, Fe, Zr**



### Calconcarboxylic acid

• Acido calconcarbonico • Acide calconcarbonique • Acido calconcarbónico • Calconcarbonsäure

Synonym:  
• Calconcarboxylic acid  
• 3-Hydroxy-4-(2-hydroxy-4-sulfo-1-naphthylazo)naphthalene-2-carboxylic acid

C<sub>21</sub>H<sub>14</sub>O<sub>7</sub>N<sub>2</sub>S  
Molecular Weight: 438,42  
CAS: 3737-95-9  
EEC-N: 223-117-0



#### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233

#### Calconcarboxylic acid > RPE - For analysis - Reag. Ph. Eur.

RPE

Description ..... Polvere viola scura Identification ..... Positive Water ..... ≤ 10 %

Code	Size	Packaging	Notes
403308	5 g	Glass bottle	

	<b>Calmagite</b>	Synonym: 3-Hydroxy-4-(2-hydroxy-5methylphenylazo)- naphthalene-1-sulfonic acid
	• Calmagite • Calmagite • Calmagita • Calmagite	

C<sub>17</sub>H<sub>14</sub>N<sub>2</sub>O<sub>5</sub>S  
Molecular Weight: 358,37  
CAS: 3147-14-6  
EEC-N: 221-563-0



**Warning**  
H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Calmagite > RPE - For analysis

**RPE**

Description .....Black powder Identification ..... Positive

Code	Size	Packaging	Notes
434181	5 g	Glass bottle	

**Suitable for the spectrophotometric determination of lanthanide**

	<b>Camphor natural</b>	Synonym: • 2-Bornanone • 2-Camphanone
	• Canfora naturale • Camphre naturel • Alcanfor natural • Kampfer, Natürlicher	

C<sub>10</sub>H<sub>16</sub>O  
Molecular Weight: 152,23  
CAS: 464-49-3  
EEC-N: 207-355-2

**Classification transport**  
ONU: 2717  
Transport Hazard class: 4.1  
Packing group III



**Warning**  
H228-H315-H319-H335  
P210-P241-P280-P304+P340-P305+P351+P338-  
P403+P233

### Camphor natural > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-BP

**ERBApharm**

Description .....White crystals Water .....Conform Ph.Eur. Melting point..... 175 ÷ 179 °C Non volat.substances .....≤500 ppm  
Identification ..... Positive Acidity or alkalinity.....Conform Ph.Eur. Specific optical rotation... +41.0 ÷ +43.0 °  
Appearance of solution .....Conform Ph.Eur. Sostanze analoghe (GLC) ...Conform Ph.Eur. Halogenated compounds .....≤100 ppm

Code	Size	Packaging	Notes
332356	500 g	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

	<b>Camphor synthetic</b>	Synonym: • Canfora sintetica • Camphre synthétique • Alcanfor sintetico • Kampfer, Synthetischer
	• Canfora sintetica • Camphre synthétique • Alcanfor sintetico • Kampfer, Synthetischer	

C<sub>10</sub>H<sub>16</sub>O  
Molecular Weight: 152,24  
CAS: 76-22-2  
EEC-N: 200-945-0

**Classification transport**  
ONU: 2717  
Transport Hazard class: 4.1  
Packing group III



**Warning**  
H228-H302-H371  
P210-P241-P260-P264-P280-P301+P312a

### Camphor synthetic > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBApharm**

Description ..... White crystalline powder Water .....Conform Ph.Eur. Melting point..... 172 ÷ 180 °C Non volat.substances .....≤500 ppm  
Identification ..... Positive Acidity or alkalinity.....Conform Ph.Eur. Specific optical rotation... -0.15 ÷ +0.15 ° Origin (BSE/TSE)..... Synthesis  
Appearance of solution .....Conform Ph.Eur. Related substances .....Conform Ph.Eur. Halogenated compounds .....≤100 ppm Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
332406	500 g	Plastic bottle	
332401	5 kg	Carton box	
332402	25 kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Canada balsam**

• Balsamo del Canada • Baume du Canada • Balsamo del Canada • Kanadabalsam

CAS: 8007-47-4  
EEC-N: 232-362-2**Warning**H226  
P210-P241-P280-P303+P361+P353-P403+P235-P501a**Canada balsam > RS - Mounting medium for microscopy**

RS

Description .....Pale yellow dense liquid Identification ..... Positive

Code	Size	Packaging	Notes
321553	100 g	Glass bottle	
321554	250 g	Glass bottle	

**n-Caproic acid**

• Acido n-caproico • Acide n-caproïque • Acido n-caproico • n-Caprionsäure

Synonym:  
*Hexanoic acid* $\text{CH}_3(\text{CH}_2)_4\text{COOH}$   
Molecular Weight: 116,16  
CAS: 142-62-1  
EEC-N: 205-550-7**Classification transport**ONU: 2829  
Transport Hazard class: 8  
Packing group III**Danger**H314  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338**n-Caproic acid > RPE - For analysis**

RPE

Description .....Yellow colourless liquid Identification ..... Positive Refractive index at 20°C. 1.4150 ÷ 1.4180 Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
403473	100 ml	Glass bottle	

**Capryl alcohol ▶ Octanol-1****n-Caprylic acid**

• Acido n-caprilico • Acide n-caprylique • Acido n-caprilico • n-Caprylsäure

Synonym:  
*Octanoic acid* $\text{CH}_3(\text{CH}_2)_6\text{COOH}$   
Molecular Weight: 144,21  
CAS: 124-07-2  
EEC-N: 204-677-5**Classification transport**ONU: 3265  
Transport Hazard class: 8  
Packing group III**Danger**H314-H412  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338**n-Caprylic acid > RE - Pure**

RE

Description ..... Yellow clear liquid Identification ..... Positive Refractive index at 20°C. 1.4268 ÷ 1.4288 Assay (GLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
403421	250 ml	Glass bottle	

**Carbamic acid ammonium salt ▶ Ammonium carbamate**



## Carbolated Methylene Blue hydroalcoholic solution

- Blu metilene fenicato soluzione idroalcolica • Bleu de méthylène phéniqué solution hydroalcoolique • Azul de metileno fenicado solución hidroalcohólica
- Methylenblau-phenolische hydroalkoholische Lösung

### Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group III



### Warning

H226-H315-H319-H341  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P308+P313

## Carbolated Methylene Blue hydroalcoholic solution > RS - For microscopy

RS

Description ..... Blue clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
428991	100 ml	Bottle	

**Dye for bacteriology. Water / ethanol mixture (70:30). Contains phenol**



## Carbolated Toluidine Blue hydroalcoholic solution

- Blu toluidina fenicato soluzione idroalcolica • Bleu de toluidine phéniqué solution hydroalcoolique • Azul de metileno fenicado solución hidroalcohólica
- Phenolische Toluidinblau-Hydroalkohol-Lösung



### Warning

H315-H319-H341  
 P280-P305+P351+P338-P308+P313-P362+P364-  
 P332+P313-P337+P313

## Carbolated Toluidine Blue hydroalcoholic solution > RS - For microscopy

RS

Description ..... Blue clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
429291	100 ml	Bottle	

**Dye for histology. Ethanol - water (10:90). Contains phenol**

## Carbon ► Charcoal activated



## Carborundum, granules

- Carborundo, granulare • Carborundum, granulés • Carborundo, gránulos • Carborundum-Granulat

Synonym:  
*Silicon carbide*

CSi  
 Molecular Weight: 40,1  
 CAS: 409-21-2  
 EEC-N: 206-991-8



### Warning

H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

## Carborundum, granules > RPE - For analysis

RPE

Description ..... Black granules Loss on ignition ..... ≤0.5 % Heavy metals (Pb) ..... ≤50 ppm HCl solubility ..... ≤0.5 %  
 Identification ..... Positive Chloride ..... ≤100 ppm Sulphate ..... ≤200 ppm Fe ..... ≤200 ppm

Code	Size	Packaging	Notes
434766	500 g	Plastic bottle	



## Carborundum, powder

- Carborundo, polvere • Carborundum, poudre • Carborundo, polvo • Carborundum-Pulver

Synonym:  
*Silicon carbide*

CSi  
 Molecular Weight: 40,1  
 CAS: 409-21-2  
 EEC-N: 206-991-8



### Warning

H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

## Carborundum, powder > RPE - For analysis

RPE

Description ..... Black greyish powder Loss on ignition ..... ≤0.5 % Fe ..... ≤0.5 %  
 Identification ..... Positive HCl solubility ..... ≤1 %

Code	Size	Packaging	Notes
434786	500 g	Plastic bottle	



## Carrez reagent potassium salt

- Carrez reattivo sale di potassio • Réactif de Carrez sel de potassium • Carrez reactivo sal de potasio
- Carrez Reagenz Kaliumsalsz

Synonym:  
Carrez II

HEU032

### Carrez reagent potassium salt > RS - For agroalimentary analysis

RS

Density at 20°C ..... 1.056 ÷ 1.062

Code	Size	Packaging	Notes
502711	1 l	Plastic bottle	

**Composition: according to NF V04-233: K4Fe(CN)6 3 H2O 106g water QSP 1 L**



## Carrez reagent zinc salt

- Carrez reattivo sale di zinco • Réactif de Carrez sel de zinc • Carrez reactivo sal de zinc
- Carrez Reagenz Zinksalsz

Synonym:  
Carrez I



### Warning

H319-H412

P264-P273-P280i-P305+P351+P338-P337+P313-P501a

### Carrez reagent zinc salt > RS - For agroalimentary analysis

RS

Density at 20°C ..... 1.108 ÷ 1.114    pH at 20°C ..... 4.40 ÷ 4.60

Code	Size	Packaging	Notes
502701	1 l	Glass bottle	

**Composition: Zinc acetate dihydrate 219 g, acetic acid 30ml, water qsp 1 L**



## Casein

- Caseina • Caséine • Caseina • Kasein

CAS: 9000-71-9

EEC-N: 232-555-1

### Casein > RS - For microscopy

RS

Description ..... Yellowish powder    Water ..... ≤ 13 %    Ash ..... ≤ 3 % (s.s.)  
 Identification ..... Positive    Acidi liberi (ac. lattico) ..... ≤ 1 %    Assay (ex nitrogen) ..... ≥ 92 % s.s.

Code	Size	Packaging	Notes
435963	50 g	Plastic bottle	



## Castor oil

- Olio di ricino • Huile de ricin • Aceite de ricino • Rizinusöl

Molecular Weight: 932

CAS: 8001-79-4

EEC-N: 232-293-8

### Castor oil > ERBapharm - According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

ERBapharm

Description ..... Slightly yellow, viscous liq.    Optical rotation ..... +3.5 ÷ +6.0 °    Composition of fatty acids (GC) ..... Conform Ph.Eur.    Linolenic acid ..... ≤ 1.0 %  
 Appearance ..... Clear at 40°C    Specific absorbance at 270nm ..... ≤ 0.7 AU    Palmitic acid ..... ≤ 2.0 %    Eicosenoic acid ..... ≤ 1.0 %  
 Appearance of solution ..... Conform    Acid value ..... ≤ 1.5    Stearic acid ..... ≤ 2.5 %    Any other fatty acid ..... ≤ 1.0 %  
 Identification ..... Positive    Hydroxyl value ..... ≥ 160    Ricinoleic acid ..... 85.0 - 92.0 %    Origin (BSE/TSE) ..... Vegetable  
 Relative density at 20°C ..... about 0.958    Peroxide value ..... ≤ 10.0    Oleic acid and isomers ..... Conform    Residual solvents (Current ICH) ..... Conform  
 Refractive index at 20° C ..... about 1.479    Unsaponifiable matter ..... ≤ 0.8 %    Linoleic acid ..... 2.5 - 7.0 %    Residual solvents (CPMP/ICH/283/95) ..... Conform  
 Refractive index at 20°C ..... about 1.479    Water (K.F.) ..... ≤ 0.3 %

Code	Size	Packaging	Notes
356351	1 l	Glass bottle	
356352	5 l	Aluminium can	
356353	28 kg	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Cedarwood oil ▶ Oil of cedar wood



### Cellulose, powder

• Cellulosa, polvere • Cellulose, poudre • Celulosa, polvo • Zellulose, Pulver

Synonym:

- $\alpha$ -Cellulose
- Cotton linters

CAS: 9004-34-6

EEC-N: 232-674-9

### Cellulose, powder > RS - For chromatography

RS

Description ..... Yellowish powder Identification ..... Positive

Code	Size	Packaging	Notes
436061	250 g	Plastic bottle	

## Ceric ammonium nitrate ▶ Cerium (IV) ammonium nitrate

## Ceric ammonium sulfate dihydrate ▶ Cerium (IV) ammonium sulfate dihydrate



### Cerium standard solution

• Cerio standard soluzione • Cérium standard solution • Cerio, solución patrón • Cer-Standardlösung

#### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



#### Warning

H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Cerium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505552	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505555	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Cerium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503501	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503503	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503505	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503507	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Cerium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507531	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507498	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Cerium (III) nitrate hexahydrate**

• Cerio nitrato oso esaidrato • Cérium (III) nitrate hexahydraté • Cerio (III) nitrato hexahidratado  
• Cer(III)-nitrát-Hexahydrat

Synonym:

• *Cerium trinitrate*  
• *Nitric acid cerium salt*

$Ce(NO_3)_3 \cdot 6H_2O$   
Molecular Weight: 434,25  
CAS: 10294-41-4  
EEC-N: 233-297-2

**Classification transport**  
ONU: 1477  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272  
P210-P220-P280-P370+P378a-P501a

**Cerium (III) nitrate hexahydrate > RE - Pure****RE**

Description ..... Colourless crystals Sulphate ..... ≤ 200 ppm CaO ..... ≤ 50 ppm  
Identification ..... Positive Fe203 ..... ≤ 35 ppm Assay ..... ≥ 99.4 %

Code	Size	Packaging	Notes
436203	50 g	Glass bottle	

**Cerium (IV) ammonium nitrate**

• Cerio ammonio nitrato ico • Cérium (IV) ammonium nitrate • Cerio (IV) amonio nitrato  
• Cer (IV) ammoniumnitrát

Synonym:

*Cerium ammonium nitrate*

$(NH_4)_2Ce(NO_3)_6$   
Molecular Weight: 548,23  
CAS: 16774-21-3  
EEC-N: 240-827-6

**Classification transport**  
ONU: 1477  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H318  
P210-P220-P280-P305+P351+P338-P310a-P501a

**Cerium (IV) ammonium nitrate > RPE - For analysis - ACS - Reag. Ph.Eur.****RPE**

Description ..... Orange crystalline powder H2SO4-insoluble matter ..... ≤ 500 ppm Phosphate ..... ≤ 200 ppm Fe ..... ≤ 50 ppm  
Identification ..... Positive Chloride ..... ≤ 100 ppm Assay (oxidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
436081	50 g	Glass bottle	
436082	500 g	Glass bottle	

**Cerium (IV) ammonium nitrate 0.1 mol/l**

• Cerio ammonio nitrato ico 0.1 mol/l • Cérium (IV) ammonium nitrate 0.1 mol/l • Cerio (IV) amonio nitrato 0.1 mol/l • Cer (IV) ammoniumnitrát 0.1 mol/l

$Ce(NH_4)_2(NO_3)_6$   
Molecular Weight: 548,22  
CAS: 16774-21-3

**Classification transport**  
ONU: 3093  
Transport Hazard class: 8  
Packing group II



**Danger**  
H272-H290-H315-H318  
P210-P280-P305+P351+P338-P310a-P362+P364-P332+P313

**Cerium (IV) ammonium nitrate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613000100	1 l	Glass bottle	Ref Ph.Eur 3000100

**Storage: protected from light****Cerium (IV) ammonium nitrate 0.01 mol/l**

• Cerio ammonio nitrato ico 0.01 mol/l • Cérium (IV) ammonium nitrate 0.01 mol/l • Cerio (IV) amonio nitrato 0.01 mol/l • Cer (IV) ammoniumnitrát 0.01 mol/l

$Ce(NH_4)_2(NO_3)_6$   
Molecular Weight: 548,22  
CAS: 16774-21-3

**Cerium (IV) ammonium nitrate 0.01 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613000200	1 l	Plastic bottle	Ref Ph.Eur 3000200

**Storage: protected from light**

**Cerium (IV) ammonium sulfate dihydrate**  
 • Cerio ammonio solfato ico diidrato • Cérium (IV) ammonium sulfate dihydraté  
 • Cerio (IV) amonio sulfato diidrato • Cer (IV) ammoniumsulfatdihydrat

Synonym:  
Ceric ammonium sulfate

$Ce(NH_4)_4(SO_4)_4 \cdot 2H_2O$   
 Molecular Weight: 632,54  
 CAS: 10378-47-9



**Warning**  
 H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

**Cerium (IV) ammonium sulfate dihydrate > RPE - For analysis - ACS**

**RPE**

Description ..... Yellow-orange powder Insoluble in diluted sulphuric acid ..... ≤ 0.05 % Fe ..... ≤ 100 ppm  
 Identification ..... Positive Phosphate ..... ≤ 0.03 % Assay (oxidimetric) ..... ≥ 94 %

Code	Size	Packaging	Notes
436091	100 g	Glass bottle	
436092	500 g	Glass bottle	

**Cerium (IV) ammonium sulfate 0.1 mol/l**  
 • Cerio ammonio solfato ico 0.1 mol/l • Cérium (IV) ammonium sulfate 0.1 mol/l • Cerio (IV) amonio sulfato 0.1 mol/l • Cer (IV) ammoniumsulfat 0.1 mol/l

$Ce(NH_4)_4(SO_4)_4 \cdot 2H_2O$   
 Molecular Weight: 632,54  
 CAS: 10378-47-9

**Classification transport**  
 ONU: 2796  
 Transport Hazard class: 8  
 Packing group II



**Warning**  
 H290-H315-H319  
 P264-P280a-P305+P351+P338-P332+P313-  
 P362+P364-P337+P313

**Cerium (IV) ammonium sulfate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

**RS**

Code	Size	Packaging	Notes
613000301	250 ml	Plastic bottle	Ref Ph.Eur 3000300
613000300	1 l	Plastic bottle	Ref Ph.Eur 3000300

**Cerium (IV) ammonium sulfate 0.01 mol/l**  
 • Cerio ammonio solfato ico 0.01 mol/l • Cérium (IV) ammonium sulfate 0.01 mol/l • Cerio (IV) amonio sulfato 0.01 mol/l • Cer (IV) ammoniumsulfat 0.01 mol/l

$Ce(NH_4)_4(SO_4)_4 \cdot 2H_2O$   
 Molecular Weight: 632,54  
 CAS: 10378-47-9

**Cerium (IV) ammonium sulfate 0.01 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

**RS**

Code	Size	Packaging	Notes
613000400	1 l	Plastic bottle	Ref Ph.Eur 3000400

**Cerium (IV) sulfate tetrahydrate**  
 • Cerio solfato ico tetraidrato • Cérium (IV) sulfate tétrahydraté • Cerio (IV) sulfato tetrahidrat  
 • Cer (IV) sulfattetrahydrat

Synonym:  
Ceric sulfate tetrahydrate

$Ce(SO_4)_2 \cdot 4H_2O$   
 Molecular Weight: 404,3  
 CAS: 10294-42-5  
 EEC-N: 237-029-5



**Warning**  
 H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

**Cerium (IV) sulfate tetrahydrate > RE - Pure**

**RE**

Description ..... Yellow powder Chloride ..... ≤200 ppm Fe ..... ≤500 ppm  
 Identification ..... Positive Heavy metals (Pb) ..... ≤50 ppm Assay (oxidimetric) ..... ≥98 % s.s.

Code	Size	Packaging	Notes
436402	25 g	Glass bottle	
436404	100 g	Glass bottle	

**Cerium (IV) sulfate 0.1 mol/l**

• Cerio solfato ico 0.1 mol/l • Cérium (IV) sulfate 0.1 mol/l • Cerio (IV) sulfato 0.1 mol/l • Cer (IV) sulfat 0.1 mol/l

Ce(SO<sub>4</sub>)<sub>2</sub> · 4H<sub>2</sub>O  
Molecular Weight: 404,3  
CAS: 10294-42-5**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Cerium (IV) sulfate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613001101	500 ml	Plastic bottle	Ref Ph.Eur 3001100
613001100	1 l	Plastic bottle	Ref Ph.Eur 3001100

**Cerium (IV) sulfate 0.1 mol/l > RPE - For analysis**

RPE

Code	Size	Packaging	Notes
436426	500 ml	Plastic bottle	

**For specifications, contact our customer service for a certificate of analysis****Cesium standard solution**

• Cesio standard soluzione • Césium standard solution • Cesio, solución patrón • Caesium-Standardlösung

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III**Cesium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505572	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505575	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Cesium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503531	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503533	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503535	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503537	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Cesium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507532	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507499	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Cesium chloride

• Cesio cloruro • Césium chlorure • Cesio cloruro • Cäsiumchlorid

CsCl  
Molecular Weight: 168,36  
CAS: 7647-17-8  
EEC-N: 231-600-2



### Warning

H312  
P280h-P302+P352a-P312a-P362+P364-P501a

### Cesium chloride > RPE - For analysis

RPE

Description .....	White crystalline powder	Ba .....	≤ 10 ppm	K .....	≤ 30 ppm	Rb .....	≤ 50 ppm
Identification .....	Positive	Ca .....	≤ 10 ppm	Mg .....	≤ 5 ppm	Sr .....	≤ 10 ppm
Sulphate .....	≤ 25 ppm	Cr .....	≤ 2 ppm	Na .....	≤ 50 ppm	Assay (argentimetric) .....	≥ 99 %
SiO <sub>2</sub> .....	≤ 2 ppm	Fe .....	≤ 5 ppm	Mn .....	≤ 5 ppm		
Al .....	≤ 1 ppm	Li .....	≤ 1 ppm	Pb .....	≤ 5 ppm		

Code	Size	Packaging	Notes
436502	25 g	Glass bottle	
436501	50 g	Glass bottle	



## Cesium chloride 25 g/l solution

• Cesio cloruro 25 g/L soluzione • Césium chlorure 25 g/l • Cesio cloruro solución 25 g/l • Caesiumchlorid 25 g/l Lösung

CsCl  
Molecular Weight: 168,36  
CAS: 7647-17-8

HEU210

### Cesium chloride 25 g/l solution > RS - Ionisation standard solution for AAS

RS

Code	Size	Packaging	Notes
504536	500 ml	Plastic bottle	Matrix: Water



## Cesium sulfate

• Cesio solfato • Césium sulfate • Cesio sulfato • Cäsiumsulfat

Cs<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 361,87  
CAS: 10294-54-9  
EEC-N: 233-662-6

### Cesium sulfate > RPE - For analysis

RPE

Description .....	White crystalline powder	Heavy metals (Pb) .....	≤ 20 ppm	K .....	≤ 500 ppm	Zn .....	≤ 50 ppm
Identification .....	Positive	Al .....	≤ 5 ppm	Mg .....	≤ 5 ppm	Assay (acidimetric) .....	≥ 99 %
Total nitrogen .....	≤ 30 ppm	Ca .....	≤ 100 ppm	Na .....	≤ 200 ppm		
Chloride .....	≤ 40 ppm	Cu .....	≤ 5 ppm	Ni .....	≤ 5 ppm		
Water-insoluble matter .....	≤ 50 ppm	Fe .....	≤ 3 ppm	Pb .....	≤ 5 ppm		

Code	Size	Packaging	Notes
436534	25 g	Glass bottle	



## Cetyl alcohol

• Alcole cetilico • Alcool cétylique • Alcohol cetílico • Cetylalkohol

Synonym:  
1-Hexadecanol

CH<sub>3</sub>(CH<sub>2</sub>)<sub>14</sub>CH<sub>2</sub>OH  
Molecular Weight: 242,44  
CAS: 36653-82-4  
EEC-N: 253-149-0



### Warning

H315  
P264-P280g-P302+P352a-P332+P313-P362+P364

### Cetyl alcohol > RPE - For analysis

RPE

Description .....	Polvere cristallina bianca o incolore	Residue on ignition .....	≤ 0.1 %	Assay (GLC) .....	≥ 95.0 %
Identification .....	Positive	Melting point .....	47 ÷ 50 °C		

Code	Size	Packaging	Notes
414427	1 kg	Plastic bottle	

**Cetyl alcohol > ERBApharm - According to pharmacopoeia: NF-Ph.Eur.-Ph.Franc.****ERBApharm**

Description ..... White powder and flakes      Melting point ..... 46 ÷ 52 °C      Hydroxyl value ..... 218 ÷ 238      Assay (GLC) ..... ≥ 95 %  
 Identification ..... Positive      Acid value ..... ≤ 1.0      Saponification value ..... ≤ 2.0      Origin (BSE/TSE) ..... Vegetable  
 Appearance of solution ..... Conform Ph.Eur.      Iodine value ..... ≤ 2.0      Water content ..... ≤ 0.5 %

Code	Size	Packaging	Notes
308357	1 kg	Plastic bottle	
308358	5 kg	Plastic tank	
308359	25 kg	Plastic bucket	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

**Charcoal activated**

• Carbone attivo • Charbon actif • Carbón activado • Holzkohle aktiviert

Synonym:  
Carbon

C  
 Molecular Weight: 12,01  
 CAS: 7440-44-0  
 EEC-N: 931-328-0

**Charcoal activated > RS - For chromatography****RS**

Description ..... Black powder      Identification ..... Positive      Loss on drying ..... ≤ 10 %

Code	Size	Packaging	Notes
434455	250 g	Bag	
434454	1 kg	Bag	

**Charcoal activated > RS - For microanalysis****RS**

Description ..... Black fine powder      Identification ..... Positive

Code	Size	Packaging	Notes
434462	50 g	Glass bottle	

**Charcoal activated > RE - Pure - For synthesis****RE**

Code	Size	Packaging	Notes
P4610017	1 kg	Plastic bottle	Granular

*For specifications, contact our customer service for a certificate of analysis*

**Charcoal decolorizing**

• Carbone decolorante • Charbon décolorant • Carbón decolorante • Entfärbung von Holzkohle

Synonym:  
Carbon

C  
 Molecular Weight: 12,01  
 CAS: 7440-44-0  
 EEC-N: 931-328-0

**Charcoal decolorizing > RPE - For analysis****RPE**

Description ..... Black fine powder      pH ..... 10 - 11      Ash ..... ≤ 7 %  
 Identification ..... Positive      Loss on drying ..... ≤ 10 %

Code	Size	Packaging	Notes
434507	1 kg	Bag	
434501	20 kg	Fibre drum	



**Charcoal vegetable**

• Carbone vegetale • Charbon végétal • Carbón vegetal • Holzkohlegemüse

Synonym:  
CarbonC  
Molecular Weight: 12,01  
CAS: 7440-44-0  
EEC-N: 931-328-0**Charcoal vegetable > RE - Pure**

RE

Description ..... Black fine powder Identification ..... Positive

Code	Size	Packaging	Notes
332658	2.5 kg	Bag	
332659	5 kg	Plastic bucket	

**Chloral hydrate**

• Cloralio idrato • Chloral hydraté • Cloral hidrato • Hydriertes Chloral

 $\text{Cl}_3\text{CCH}(\text{OH})_2$   
Molecular Weight: 165,4  
CAS: 302-17-0**Classification transport**ONU: 2810  
Transport Hazard class: 6.1  
Packing group III**Danger**H301-H315-H319  
P301+P310a-P330-P305+P351+P338-P362+P364-P332+P313-P337+P313**Chloral hydrate > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611017901	100 ml	Plastic bottle	Ref Ph.Eur 1017901

**Chloramine T sodium salt**

• Cloramina T sale sodico • Chloramine T sel sodique • Cloramina T sódica • Chloramins-T-Natriumsalz

Synonym:  
N-Chloro-p-toluenesulfonamide sodium salt $\text{CH}_2\text{Cl}_6\text{H}_4\text{SO}_2\text{NCINa}\cdot 3\text{H}_2\text{O}$   
Molecular Weight: 227,65  
CAS: 7080-50-4  
EEC-N: 615-172-8**Classification transport**ONU: 3263  
Transport Hazard class: 8  
Packing group III**Danger**H302-H314-H334-HEU031  
P280-P284-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P342+P311a**Chloramine T sodium salt > RPE - For analysis**

RPE

Description ..... White crystalline powder pH solution 5% ..... 8.0 ÷ 10.3 Torbidità (0.5% in acqua) ..... ≤ 5 FTU  
Identification ..... Positive Colore soluzione 5% ..... ≤ 25 APHA Assay (iodometric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
437555	25 g	Glass bottle	
437554	100 g	Plastic bottle	
437557	1 kg	Plastic bottle	
437551	25 kg	Fibre drum	

**For determination of: Co, Cr, Fe, Hg, Mn, Ni, Sb****Chloranil**

• Cloranile • Chloranile • Cloranilo • Chloranil

Synonym:  
• Tetrachloro-1,4-benzoquinone  
• Tetrachloro-p-benzoquinoneCOCCl:CClOCCl:CCl  
Molecular Weight: 245,89  
CAS: 118-75-2  
EEC-N: 204-274-4**Classification transport**ONU: 3077  
Transport Hazard class: 9  
Packing group III**Warning**H315-H319-H410  
P264-P280a-P305+P351+P338-P332+P313-P362+P364-P337+P313**Chloranil > RPE - For analysis**

RPE

Description Yellow to yellow-green powder or crystals Identification ..... Positive Assay (HPLC) ..... ≥ 98.5 % Loss on drying ..... ≤ 0.5 %

Code	Size	Packaging	Notes
437601	50 g	Glass bottle	

**Reagent for the dehydrogenation of hydroaromatic compounds**

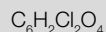


## Chloranilic acid

• Acido cloranilico • Acide chloranilique • Acido cloranilico • Chloranilsäure

Synonym:

2,5-Dichloro-3,6-dihydroxy-2,5-cyclohexadiene-1,4-dione



Molecular Weight: 208,99

CAS: 87-88-7

EEC-N: 201-780-7



### Warning

H315-H319-H335

P261-P271-P304+P340-P305+P351+P338-

P332+P313-P403+P233

### Chloranilic acid > RPE - For analysis

RPE

Description .....Red brick powder    Loss on drying ..... ≤1 %    Heavy metals (Pb)..... ≤20 ppm    Assay (argentimetric)..... ≥99 %  
 Identification ..... Positive    Chloride..... ≤50 ppm    Residue on ignition..... ≤0.1 %

Code	Size	Packaging	Notes
403821	10 g	Glass bottle	
403822	100 g	Glass bottle	



## Chlorate standard solution

• Clorati standard soluzione • Chlorate standard solution • Clorato, solución patrón • Chlorat-Standardlösung

### Chlorate standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503181	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503183	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Chloride standard solution

• Cloruri standard soluzione • Chlorure standard solution • Cloruro, solución patrón • Chlorid-Standardlösung

### Chloride standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000901	100 ml	Plastic bottle	A 5 ppm solution: to dilute according to Ref Ph.Eur 5000901
615000909	100 ml	Plastic bottle	A 8 ppm solution: to dilute according to Ref Ph.Eur 5000900
615004100	100 ml	Plastic bottle	A 50 ppm solution: to dilute according to Ref Ph.Eur 5004100

### Chloride standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503231	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503233	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Chlorite standard solution

• Cloriti standard soluzione • Chlorite standard solution • Clorita, solución patrón • Chlorit-Standardlösung

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group III

### Chlorite standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503191	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503193	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Chloroacetamide

• 2-Chloroacetammide • Chloroacétamide • Cloroacetamida • Chloracetamid

$\text{CH}_2\text{ClCONH}_2$   
Molecular Weight: 93,51  
CAS: 79-07-2  
EEC-N: 201-174-2

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H317-H361f  
P261-P280-P301+P310a-P330-P308+P313-P362+P364

### Chloroacetamide > RPE - For analysis

RPE

Description ..... White crystalline powder    Melting point .....  $116 \div 120 \text{ }^\circ\text{C}$     Assay (GLC) .....  $\geq 97.5 \%$   
Identification ..... Positive    Water .....  $\leq 0.2 \%$

Code	Size	Packaging	Notes
437704	100 g	Glass bottle	



## Chloroacetic acid

• Acido cloroacetico • Acide chloroacétique • Acido cloroacetico • Chloressigsäure

Synonym:  
Monochloroacetic acid

$\text{CH}_2\text{ClCOOH}$   
Molecular Weight: 94,5  
CAS: 79-11-8  
EEC-N: 201-178-4

**Classification transport**  
ONU: 1751  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H311-H331-H314-H400  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P311a-P305+P351+P338-P361+P364-P403+P233

### Chloroacetic acid > RPE - For analysis - Reag. Ph. Eur.

RPE

Description ..... White flakes    Identification ..... Positive    Melting point .....  $61 \div 63 \text{ }^\circ\text{C}$     Assay (acidimetric) .....  $\geq 98.5 \%$

Code	Size	Packaging	Notes
404308	500 g	Plastic bottle	



## p-Chlorobenzaldehyde

• p-Clorobenzaldeide • p-Chlorobenzaldéhyde • p-Clorobenzaldehído • p-Chlorbenzaldehyd

$\text{ClC}_6\text{H}_4\text{CHO}$   
Molecular Weight: 140,57  
CAS: 104-88-1  
EEC-N: 203-247-4



**Warning**  
H302-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233

### p-Chlorobenzaldehyde > RPE - For analysis

RPE

Description ..... White crystalline mass    Melting point .....  $46.0 \div 48.0 \text{ }^\circ\text{C}$     Assay (GLC) .....  $99 \div 100 \%$   
Identification ..... Positive    Residue on ignition .....  $\leq 100 \text{ ppm}$

Code	Size	Packaging	Notes
438203	50 g	Glass bottle	



## Chlorobenzene

• Clorobenzene • Chlorobenzène • Clorobenceno • Chlorbenzol

$\text{C}_6\text{H}_5\text{Cl}$   
Molecular Weight: 113  
CAS: 108-90-7  
EEC-N: 203-628-5

**Classification transport**  
ONU: 1134  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H332-H315-H411  
P210-P241-P261-P280-P303+P361+P353-P304+P340

### Chlorobenzene > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Density at  $20 \text{ }^\circ\text{C}$  .....  $1.103 \div 1.109$     Residue on evaporation .....  $\leq 30 \text{ ppm}$     o- Dichlorobenzene .....  $\leq 0.01 \%$   
Identification ..... Positive    Refractive index at  $20 \text{ }^\circ\text{C}$  .....  $1.5198 \div 1.5298$     Acidity (HCl) .....  $\leq 3 \text{ ppm}$     Free chlorine .....  $\leq 0.1 \text{ ppm}$   
Alcohol miscibility ..... Complete    Boiling point .....  $131 \div 133 \text{ }^\circ\text{C}$     Benzene .....  $\leq 200 \text{ ppm}$     Assay (GLC) .....  $\geq 99.9 \%$   
Diethyl ether miscib. .... Complete    Water (K.F) .....  $\leq 200 \text{ ppm}$     p- Dichlorobenzene .....  $\leq 0.02 \%$

Code	Size	Packaging	Notes
438251	1 l	Glass bottle	
438255	2.5 l	Glass bottle	
438253	25 kg	Drum	

## Chlorobenzene > RE - Pure

**RE**

Description .....	Yellow clear liquid	Density at 20° C .....	1.103 ÷ 1.109	Free acid (HCl) .....	≤10 ppm	Residue on evaporation .....	≤50 ppm
Identification .....	Positive	Refractive index at 20°C .....	1.5198 ÷ 1.5298	Benzene .....	≤200 ppm	Assay (GLC) .....	≥99.9 %
Titration base .....	Conform	Boiling point .....	131.5 ÷ 132.5 °C	Water (K.F.) .....	≤500 ppm		

Code	Size	Packaging	Notes
334251	1 l	Glass bottle	
334255	2.5 l	Glass bottle	
334254	30 kg	Metal drum	

## 1-Chlorobutane ▶ n-Butyl chloride



### Chlorobutanol hemihydrate

- Clorobutanolo emiidrato • Chlorobutanol hémihydrate • Clorobutanol hemihidrat
- Chlorobutanol Hemihydrat

**Synonym:**
*β,β,β-Trichloro-t-butanol*

(CH<sub>3</sub>)<sub>2</sub>COHCCl<sub>3</sub>·1/2H<sub>2</sub>O  
 Molecular Weight: 186,5  
 CAS: 6001-64-5  
 EEC-N: 200-317-6


**Warning**

H302-H312-H332-H315-H319  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P337+P313

## Chlorobutanol hemihydrate > ERBapharm - According to pharmacopoeia: BP-FU-NF-Ph.Eur.-Ph.Franc.

**ERBapharm**

Description ...	Colourless crystalline powder	Impurity B (acetone) (Ph.Eur.) .....	≤ 0.10 %	Chloride .....	≤100 ppm	Residual solvents (Current ICH) .....	Conform
Identification .....	Positive	Acidity .....	Conform Ph.Eur.	Assay (argentimetric) .....	98.0 ÷ 101.0 % s.s.	Reaction .....	Conform USP-NF
Appearance of solution .....	Conform Ph.Eur.	Water (K.F.) .....	4.5 ÷ 5.5 %	Assay (USP) .....	98.0 - 100.5 % (d.s.)		
Impurity A (chloroform) (Ph.Eur.) .....	≤ 60 ppm	Sulphated ash .....	≤0.1 %	Origin (BSE/TSE) .....	Synthesis		

Code	Size	Packaging	Notes
301357	1 kg	Plastic bottle	
301356	5 kg	Plastic tank	

**This product should be used in compliance with the current legislation.**

## 1-Chloro-2,4-dinitrobenzene ▶ 2,4-Dinitrochlorobenzene



### Chloroform

- Cloroformio • Chloroforme • Cloroformo • Chloroform

**Synonym:**

- Methyldine trichloride
- Trichloromethane

CHCl<sub>3</sub>  
 Molecular Weight: 119,38  
 CAS: 67-66-3  
 EEC-N: 200-663-8

**Classification transport**

ONU: 1888  
 Transport Hazard class: 6.1  
 Packing group III


**Danger**

H302-H331-H315-H319-H351-H361d-H372-HEU301  
 P280-P304+P340-P305+P351+P338-P308+P313-  
 P330-P362+P364-P403+P233

## Chloroform > RS - For HPLC - Isocratic grade - Stabilized with amylene

**RS**

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 100 ppm	Transmittance		Methylene chlorure .....	≤ 50 ppm
Identification (I.R.) .....	Positive	Residue on evaporation .....	≤ 5 ppm	At 250 nm .....	≥ 50 %	Stabilized with amylene .....	≤ 60 ppm
Density at 20°C .....	1.479 - 1.483	Acidity .....	≤ 0.0005 meq/g	At 260 nm .....	≥ 90 %		
Refractive index at 20°C .....	1.4456 - 1.4496	Alkalinity .....	≤ 0.0002 meq/g	At 275 nm .....	≥ 98 %		
Boiling point .....	61.0 - 61.5 °C	Assay (CPG) .....	≥ 99.9 %	Carbon tetrachloride .....	≤ 100 ppm		

Code	Size	Packaging	Notes
412571	1 l	Glass bottle	
412572	2.5 l	Glass bottle	

## Chloroform > RS - For HPLC - Isocratic grade - Stabilized with ethanol

**RS**

Description .....	Clear colourless liquid	Boiling point .....	61.0 ÷ 61.5 °C	Alkalinity .....	≤0.0002 meq/g	at 260 nm .....	≥90 %
Identification .....	Positive	Water (K.F.) .....	≤ 100 ppm	Assay (GLC) .....	≥99.9 %	at 275 nm .....	≥98 %
Density at 20° C .....	1.479 ÷ 1.483	Residue on evaporation .....	≤5 ppm	U.V. Transmittance		Carbon tetrachloride .....	≤ 100 ppm
Refractive index at 20°C .....	1.444 ÷ 1.448	Acidity .....	≤0.0005 meq/g	at 250 nm .....	≥50 %	Methylene chlorure .....	≤ 50 ppm

Code	Size	Packaging	Notes
412652	1 l	Glass bottle	
412653	2.5 l	Glass bottle	

## Chloroform > RS - For preparative HPLC - Stabilized with ethanol

**RS**

Description .....	Clear colourless liquid	Boiling point.....	61.0 ÷ 61.5 ° C	Assay (GLC) .....	≥99.0 %	Stabilized with ethyl alcohol ....	0.6 ÷ 1.0 %
Identification .....	Positive	Water (K.F.) .....	≤500 ppm	U.V. Transmittance			
Density at 20° C .....	1.479 ÷ 1.483	Residue on evaporation .....	≤5 ppm	at 250 nm .....	≥50 %		
Refractive index at 20°C.....	1.4456 ÷ 1.4496	Alcalinity.....	≤0.0002 meq/g	at 275 nm .....	≥98 %		

Code	Size	Packaging	Notes
438641	2.5 l	Glass bottle	

## Chloroform > RS - For GC-MS - Stabilized with ethanol

**RS**

Appearance .....	Clear colourless liquid	Residue on evaporation .....	≤ 3 ppm	Carbon tetrachloride .....	≤ 100 ppm	Ret. range n-undecane to n-tetracontane
Refractive index at 20°C.....	1.444 - 1.448	Acidity (HCl) .....	≤ 5 ppm	Dichloromethane.....	≤ 100 ppm	
Water (K.F.) .....	≤ 100 ppm	Assay (GC) (without stabilizer) ...	≥ 99.95 %	GC-MS.Individual peak (n-hexadecane). ≤ 2		
Colour .....	≤ 10 APHA	Stabilizer (Ethanol).....	0.4 - 1.0 % (w/w)	µg/L		

Code	Size	Packaging	Notes
438732	1 l	Glass bottle	

## Chloroform > RS - ATRASOL - For analysis of volatile traces - Stabilized with ethanol

**RS**

Appearance .....	Clear colourless liquid	Dichloromethane .....	≤ 100 mg/Kg	Free acid (as HCl) .....	≤ 5 mg/Kg	µg/L
Refractive index at 20°C.....	1.444 - 1.448	Non volatile residue .....	≤ 3 mg/Kg	GC-ECD.Individual peak (Lindane) . ≤ 2 ng/L		Ret.range n-undecane to n-tetracontane
Water content (K.F.) .....	≤ 100 mg/Kg	GC ( FID ) - NC Atrasol .....	Conform	Ret.range 1,2,4-trichlorobenzene		
Colour .....	≤ 10 Hazen	Carbon tetrachloride .....	≤ 100 mg/Kg	to decachlorobiphenyle		
Stabilizer (Ethanol).....	0.4 - 1 % m/m	Assay (GC) (without stabilizer) ...	≥ 99.95 %	GC-FID.Individual peak (n-hexadecane). ≤ 2		

Code	Size	Packaging	Notes
P02432E16	1 l	Glass bottle	
P02432E21	2.5 l	Glass bottle	

## Chloroform > RS - PESTIPUR - For pesticide analysis - Stabilized with amylene

**RS**

Refractive index at 20°C.....	1.444 - 1.448	Stabilizer (Amylene).....	5 - 50 mg/Kg	Assay (GC) .....	≥ 99.9 %	GC-NPD.Individual peak (Ethylparathion) ≤ 3
Water content (K.F.) .....	≤ 100 mg/Kg	Free acid (as HCl) .....	≤ 5 mg/Kg	GC-ECD.Individual peak (Lindane) . ≤ 3 ng/l		ng/l
Colour .....	≤ 10 Hazen	Non volatile residue .....	≤ 5 mg/Kg	Retention time trichlorobenzene to mirex		Retention time Atrazin to Coumaphos

Code	Size	Packaging	Notes
438681	1 l	Glass bottle	
438682	2.5 l	Glass bottle	

### For chlorinated and nitrogenous compounds analysis

## Chloroform > RS - PESTIPUR - For pesticide analysis - Stabilized with ethanol

**RS**

Description .....	Clear liquid	Water .....	≤ 0.01 %	GC-ECD (Lindano) .....	≤ 3 ng/l
Colour .....	≤ 10 hazen	Acidity (HCl) .....	≤ 5 ppm	GC-NPD (Ethylparation) .....	≤ 3 ng/l
Identification .....	Positive	Not volatile residue.....	≤ 5 ppm	Assay (GLC) .....	≥ 99.9 %

Code	Size	Packaging	Notes
438651	1 l	Glass bottle	
438652	2.5 l	Glass bottle	

## Chloroform > RS - SPECTROSOL - For optical spectroscopy - Stabilized with amylene

**RS**

Clear, colourless liq. appearance .....	Conform	Water content (K.F.) .....	≤ 100 mg/Kg	Carbon tetrachloride.....	≤ 100 mg/Kg	UV transmittance at 280 nm .....	≥ 95 %
Identification .....	Conform	Free acid (as HCl) .....	≤ 5 mg/Kg	Dichloromethane.....	≤ 100 mg/Kg	Assay (GC) .....	≥ 99.9 %
Colour .....	≤ 10 Apha	Non volatile residue .....	≤ 5 mg/Kg	UV transmittance at 250 nm .....	≥ 50 %		
Refractive index at 20°C.....	1.444 - 1.448	Stabilizer (Amylene).....	5 - 50 mg/Kg	UV transmittance at 260 nm .....	≥ 85 %		

Code	Size	Packaging	Notes
438591	1 l	Glass bottle	
438592	2.5 l	Glass bottle	

## Chloroform > RS - SPECTROSOL - For optical spectroscopy - Stabilized with ethanol

**RS**

Description .....	Clear liquid	Water (K.F.) .....	≤100 ppm	at 254 nm .....	≤2 ppb	at 275 nm .....	≥98 %
Colour (APHA) .....	≤10	Residue on evaporation .....	≤5 ppm	at 365 nm .....	≤2 ppb	Stabilized with ethyl alcohol ...	0.6 ÷ 1.0 %
Identification .....	Positive	Acidity (HCl) .....	≤0.0005 meq/g	U.V. Transmittance		Carbon tetrachloride .....	≤ 100 ppm
Density at 20° C .....	1.479 ÷ 1.483	Alcalinity .....	≤0.0002 meq/g	at 245 nm .....	≥15 %		
Refractive index at 20°C .....	1.4461 ÷ 1.4491	Assay (GLC) .....	≥99.9 %	at 250 nm .....	≥50 %		
Boiling point .....	61.0 ÷ 61.5 ° C	Fluorescence		at 260 nm .....	≥90 %		

Code	Size	Packaging	Notes
438664	1 l	Glass bottle	
438662	2.5 l	Glass bottle	

## Chloroform > RS - Anhydrous - For analysis - Stabilized with amylene

**RS**

Refractive index at 20°C .....	1.444 - 1.448	Colour .....	≤ 10 Hazen	Stabilizer (Amylene) .....	5 - 50 mg/Kg	1,2-dichloroethane .....	≤ 10 mg/Kg
Water content (K.F.) .....	≤ 50 mg/Kg	Free acid (as HCl) .....	≤ 5 mg/Kg	Carbon tetrachloride .....	≤ 80 mg/Kg		
Non volatile residue .....	≤ 10 mg/Kg	Assay (GC) .....	≥ 99.95 %	Dichloromethane .....	≤ 50 mg/Kg		

Code	Size	Packaging	Notes
P02410A10	200 ml	Bottle with septum	
P02410A16	1 l	Glass bottle	
P02410A21	2.5 l	Glass bottle	
P02410AT21	2.5 l	Glass bottle	On molecular sieves 4A

## Chloroform > RS - Anhydrous - For analysis - Stabilized with ethanol

**RS**

Refractive index at 20°C .....	1.444 - 1.448	Colour .....	≤ 10 Hazen	Free acid (as HCl) .....	≤ 5 mg/Kg	1,2-dichloroethane .....	≤ 10 mg/Kg
Water content (K.F.) .....	≤ 50 mg/Kg	Assay (GC) (without stabilizer) ...	≥ 99.95 %	Carbon tetrachloride .....	≤ 80 mg/Kg		
Non volatile residue .....	≤ 10 mg/Kg	Stabilizer (Ethanol) .....	0.6 - 1 % m/m	Dichloromethane .....	≤ 100 mg/Kg		

Code	Size	Packaging	Notes
P02410E10	200 ml	Bottle with septum	
P02410E16	1 l	Glass bottle	
P02410E21	2.5 l	Glass bottle	

## Chloroform > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP - Stabilized ethanol

**RPE**

Description .....	Clear liquid	Acidità e cloruri .....	Conform ACS	Residue on evaporation .....	≤5 ppm	Cu .....	≤0.01 ppm
Colour (APHA) .....	≤10	Suit.for Dithizone col.....	Conform ACS	Acidity (HCl) .....	≤5 ppm	Fe .....	≤0.1 ppm
Identification (I.R.) .....	Conform	Density at 20° C .....	1.477 ÷ 1.481	Ethyl alcohol .....	0.6 ÷ 1 %	Pb .....	≤0.01 ppm
Phosgene .....	Conform	Refractive index at 20°C .....	1.4461 ÷ 1.4491	Chloride .....	≤0.4 ppm	Zn .....	≤0.05 ppm
Ready carbonizable substances.....	Conform	Boiling point .....	60.5 ÷ 61.5 ° C	Free chlorine .....	≤0.1 ppm	Assay (GLC) .....	≥99.9 %
Acetone and aldehydes .....	Conform ACS	Water (K.F.) .....	≤100 ppm	Carbonyl Compounds (CO) .....	≤5 ppm		

Code	Size	Packaging	Notes
438613	1 l	Glass bottle	
438614	2.5 l	Glass bottle	
438612	5 l	Plastic tank	

## Chloroform > RPE - For analysis - ISO - Stabilized with ethanol

**RPE**

Description .....	Clear liquid	Alcohol miscibility .....	Complete	Water (K.F.) .....	≤300 ppm	Cu .....	≤0.01 ppm
Colour (APHA) .....	≤10	Benzene miscibility .....	Complete	Residue on evaporation .....	≤5 ppm	Fe .....	≤0.1 ppm
Identification (I.R.) .....	Conform	Diethyl ether miscib. ....	Complete	Acidity (HCl) .....	≤5 ppm	Pb .....	≤0.01 ppm
Free chlorine .....	Conform	Density at 20° C .....	1.479 ÷ 1.483	Ethyl alcohol .....	0.6 ÷ 1.0 %	Zn .....	≤0.05 ppm
Phosgene .....	Conform	Refractive index at 20°C .....	1.4461 ÷ 1.4491	Chloride .....	≤0.4 ppm	Assay (GLC) .....	≥99.9 %
Ready carbonizable substances.....	Conform	Boiling point .....	61.0 ÷ 61.5 ° C	Carbonyl Compounds (CO) .....	≤5 ppm		

Code	Size	Packaging	Notes
438601	1 l	Glass bottle	
438603	2.5 l	Glass bottle	
438607	35 kg	Aluminium can	
438606	250 kg	Metal drum	



## Chloroform > RPE - For analysis - Stabilized with amylene

**RPE**

Clear, colourless liq. appearance ..... Conform	Refractive index at 20°C ..... 1.444 - 1.448	Non volatile residue ..... ≤ 10 mg/Kg	Dichloromethane ..... ≤ 50 mg/Kg
Identification ..... Conform	Water content (K.F.) ..... ≤ 100 mg/Kg	Stabilizer (Amylene) ..... 5 - 50 mg/Kg	1,2-dichloroethane ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Apha	Free acid (as HCl) ..... ≤ 5 mg/Kg	Carbon tetrachloride ..... ≤ 80 mg/Kg	Assay (GC) ..... ≥ 99.95 %

Code	Size	Packaging	Notes
438581	1 l	Glass bottle	
438582	2.5 l	Glass bottle	
P02405A28	5 l	Plastic tank	

## Chloroform > ERBApharm - According to pharmacopoeia: BP - Stabilized with ethanol

**ERBApharm**

Description ..... Clear colourless liquid	Chloride ..... Conform BP	Related substances (CPG)	Total impurities ..... ≤ 1.0 %v/v
Identification ..... Positive	Aldehyde ..... Conform BP	Bromochloromethane ..... ≤ 0.5 %v/v	Ethanol ..... 1.0 ÷ 2.0 % (v/v)
Acidity or alkalinity ..... Conform BP	Density at 20° C ..... 1.474 ÷ 1.479	Methylene chlorure ..... ≤ 0.2 %v/v	Origin (BSE/TSE) ..... Synthesis
Foreign chlorin. comp. .... Conform BP	Residue on evaporation ..... ≤ 40 ppm p/v	Carbon tetrachloride ..... ≤ 0.2 %v/v	Assay GC (without stabilizer) ..... ≥ 99.9 %
Free chlorine ..... Conform BP	Distillation range ..... Pass test**	Any single impurity ..... ≤ 0.2 %v/v	

Code	Size	Packaging	Notes
334351	1 l	Glass bottle	
334353	2.5 l	Glass bottle	
334356	25 kg	Plastic tank	
529301	200 l	Metal drum	
334354	250 kg	Metal drum	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

## Chloroform > RE - Pure - Stabilized with amylene

**RE**

Description ..... Clear colourless liquid	Density at 20°C ..... 1.478 ÷ 1.488	Acidity (HCl) ..... <10 ppm	Assay (GLC) ..... ≥ 99.9 %
Color ..... <10 APHA	Refractive index at 20°C. 1.4461 ÷ 1.4491	Residue on evaporation ..... ≤ 20 ppm	Amylene ..... ≤ 60 ppm
Identity (IR) ..... Positive	Boiling point ..... 61 ÷ 61.5 °C	Water (K.F.) ..... ≤ 300 ppm	

Code	Size	Packaging	Notes
528326	1 l	Glass bottle	
528328	2.5 l	Glass bottle	
528325	5 l	Plastic tank	
528329	25 l	Metal drum	
528327	200 l	Metal drum	

## Chloroform > RE - Pure - Stabilized with ethanol

**RE**

Description ..... Clear colourless liquid	Density at 20°C ..... 1.478 ÷ 1.488	Acidity (HCl) ..... ≤ 50 ppm	Water (K.F.) ..... ≤ 0.03 %
Color ..... ≤ 10 APHA	Refractive index at 20°C. 1.4461 ÷ 1.4491	Ethyl alcohol ..... 0,6 ÷ 1 %	Assay (GLC) ..... ≥ 99 %
Identity (IR) ..... Positive	Boiling point ..... 61,0 ÷ 61,5 °C	Residue on evaporation ..... ≤ 20 ppm	Stab with 0,8 % ethanol

Code	Size	Packaging	Notes
508320	1 l	Glass bottle	
508321	5 l	Plastic tank	
P02402E40	10 l	Metal drum	
P02402E48	25 l	Metal drum	
508322	200 l	Metal drum	

**Chloroform-d**

• Cloroformio-d • Chloroforme-d • Cloroformo-d • Chloroform-d1

Synonym:  
DeuteriochloroformCDCl<sub>3</sub>

Molecular Weight: 120,37

CAS: 865-49-6

EEC-N: 200-663-8

**Classification transport**

ONU: 1888

Transport Hazard class: 6.1

Packing group III

**Danger**H302-H331-H315-H319-H351-H361d-H372-HEU301  
P280-P304+P340-P305+P351+P338-P308+P313-  
P330-P362+P364-P403+P233**Chloroform-d > RS - For NMR - min 99.95%**

RS

Code	Size	Packaging	Notes
P5130	10 x 0.6 ml	Glass ampoule	

**For specifications, contact our customer service for a certificate of analysis****Chloroform-d > RS - For NMR - min 99.95% - Stabilized with 0.12% Ag**

RS

Code	Size	Packaging	Notes
P5505	100 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis****Chloroform-d > RS - For NMR - min 99.8%**

RS

Code	Size	Packaging	Notes
P5119	10 x 0.75 ml	Glass ampoule	
P5115	25 ml	Glass bottle	
P5116	100 ml	Glass bottle	
P5117	500 ml	Glass bottle	
P5118	1 l	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis****Chloroform-d > RS - For NMR - min 99.8% - Stabilized with 0.12% Ag**

RS

Code	Size	Packaging	Notes
P5325	100 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis****Chloroform-d + 0.03% TMS**• Cloroformio-d + 0.03% TMS • Chloroforme-d + 0.03% TMS • Cloroformo-d + 0.03% TMS  
• Chloroform-d + 0.03% TMSSynonym:  
DeuteriochloroformCDCl<sub>3</sub>

Molecular Weight: 120,37

CAS: 865-49-6

EEC-N: 200-663-8

**Classification transport**

ONU: 1888

Transport Hazard class: 6.1

Packing group III

**Danger**H302-H331-H315-H319-H351-H361d-H372-HEU301  
P280-P304+P340-P305+P351+P338-P308+P313-  
P330-P362+P364-P403+P233**Chloroform-d + 0.03% TMS > RS - For NMR - min 99.8%**

RS

Code	Size	Packaging	Notes
P5006	100 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**



## 4-Chlorophenol

• 4-Clorofenolo • p-Chlorophénol • p-Clorofenol • p-Chlorophenol

$\text{ClC}_6\text{H}_4\text{OH}$   
Molecular Weight: 128,56  
CAS: 106-48-9  
EEC-N: 203-402-6

**Classification transport**  
ONU: 2020  
Transport Hazard class: 6.1  
Packing group III



**Warning**  
H302-H312-H332-H411  
P261-P264-P271-P280h-P301+P312a-P304+P340

### 4-Chlorophenol > RPE - For analysis - Reag. Ph. Eur.

RPE

Description .....Yellowish crystals    Identification ..... Positive    Water ..... ≤ 0.3 %    Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
438504	100 g	Glass bottle	

Chloroplatinic acid hexahydrate ▶ Hexachloroplatinic acid hexahydrate

n-Chloro-p-toluenesulfonamide sodium salt ▶ Chloramine T sodium salt



## Chromate standard solution

• Cromati standard soluzione • Chromate standard solution • Cromato, solución patrón • Chromatierte Standardlösung



**Danger**  
H340-H350-H412-HEU203-HEU208-HA26  
P201-P273-P280-P308+P313-P405-P501a

### Chromate standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503241	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503243	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

Chromic anhydride ▶ Chromium (VI) oxide



## Chromium standard solution

• Cromo standard soluzione • Chrome standard solution • Cromo, solución patrón • Chrome-Standardlösung

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Chromium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001002	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001002
615001000	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5001000

### Chromium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505567	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505568	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505569	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

## Chromium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503521	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503523	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503525	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503527	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Chromium standard solution > RS - Standard solution for AAS

RS

Description ..... Green-grey clear liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
504195	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
507485	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497501	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Chromium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Orange clear liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
440641		Plastic ampoule	conc. 1.000 ppm Matrix: Hydrochloric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Chromium (III) chloride hexahydrate

- Cromo cloruro ico esaidrato • Chrome (III) chlorure hexahydrate • Cromo (III) cloruro hexahidrato
- Chrom (III) chloridhexahydrat

Synonym:

- Chromium trichloride hexahydrate
- Hexaaquachromium (III) chloride

CrCl<sub>3</sub>·6H<sub>2</sub>O  
Molecular Weight: 266,45  
CAS: 10060-12-5  
EEC-N: 233-038-3



**Warning**

H302  
P264-P270-P301+P312a-P330-P501a

## Chromium (III) chloride hexahydrate > RPE - For analysis

RPE

Description ..... Polvere cristallina verde scuro Non precipit. con NH4OH (S04) ..... ≤ 0.2 % Fe ..... ≤ 100 ppm  
Identification ..... Positive Ammonium ..... ≤ 100 ppm Pb ..... ≤ 50 ppm  
pH solution 5% ..... 2.0 ÷ 3.5 Sulphate ..... ≤ 100 ppm Assay (oxidimetric) ..... ≥ 95.0 %

Code	Size	Packaging	Notes
440724	100 g	Glass bottle	
440727	1 kg	Plastic bottle	



## Chromium (III) nitrate nonahydrate

• Cromo nitrato ico nonaidrato • Chrome (III) nitrate nonahydrate • Cromo (III) nitrato nonahidrato • Chrom (III) nitrat Nonahydrat

Cr(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O  
Molecular Weight: 400,15  
CAS: 7789-02-8

**Classification transport**  
ONU: 2720  
Transport Hazard class: 5.1  
Packing group III



**Warning**  
H272-H332-H317-H411  
P210-P220-P261-P271-P280-P304+P340

### Chromium (III) nitrate nonahydrate > RPE - For analysis

RPE

Description .....	Violet crystals	Subst. not ppt NH4OH .....	≤ 0.2 %	Cu .....	≤ 10 ppm	Ni .....	≤ 50 ppm
Identification .....	Positive	Sulphate .....	≤ 50 ppm	Fe .....	≤ 200 ppm	Pb .....	≤ 20 ppm
pH sol. 5% at 25° C .....	2.0 ÷ 3.0	Ca .....	≤ 50 ppm	Mg .....	≤ 50 ppm	Zn .....	≤ 10 ppm
Ammonium .....	≤ 10 ppm	Cd .....	≤ 10 ppm	Mn .....	≤ 10 ppm	Assay (oxidimetric) .....	≥ 12.5 % Cr
Chloride .....	≤ 20 ppm	Co .....	≤ 10 ppm	Na .....	≤ 50 ppm		

Code	Size	Packaging	Notes
440775	250 g	Glass bottle	
440776	1 kg	Glass bottle	



## Chromium (III) oxide

• Cromo sesquiossido • Chrome (III) oxyde • Cromo (III) óxido • Chrom (III) oxid

Synonym:  
*Chromia*

Cr<sub>2</sub>O<sub>3</sub>  
Molecular Weight: 151,99  
CAS: 1308-38-9  
EEC-N: 215-160-9

### Chromium (III) oxide > RPE - For analysis

RPE

Description .....	Green powder	Identification .....	Positive	Water solubility .....	≤ 0.2 %	Assay (oxidimetric) .....	≥ 99 %
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Code	Size	Packaging	Notes
440825	250 g	Plastic bottle	
440827	1 kg	Plastic bottle	
440823	25 kg	Plastic bucket	



## Chromium (III) potassium sulfate dodecahydrate

• Cromo (III) di potassio solfato dodecaidrato • Chrome (III) potassium sulfatate dodécahydraté  
• Cromo (III) de potasio sulfato dodecahidrato • Chrom (III) kaliumsulfatdodecahydrat

Synonym:  
• *Chrome alum*  
• *Potassium chromium (III)sulfate dodecahydrate*

CrK(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O  
Molecular Weight: 499,39  
CAS: 7788-99-0



**Warning**  
H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Chromium (III) potassium sulfate dodecahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description .....	Purple crystals	Ammonium .....	≤ 100 ppm	Al .....	≤ 200 ppm
Identification .....	Positive	Chloride .....	≤ 20 ppm	Fe .....	≤ 100 ppm
Water-insoluble matter .....	≤ 100 ppm	Heavy metals (Pb) .....	≤ 100 ppm	Assay (oxidimetric) .....	98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
440876	100 g	Plastic bottle	
440877	1 kg	Plastic bottle	

**Chromium (III) sulfate**

• Cromo solfato ico • Chrome (III) sulfate • Cromo (III) sulfato • Chrom (III) sulfat

Synonym:

- Chromium(III) sulfate hydrate
- Chromium trisulfate

$\text{Cr}_2(\text{SO}_4)_3 \cdot n\text{H}_2\text{O}$   
Molecular Weight: 392,18  
CAS: 15244-38-9

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group II



**Danger**  
H302-H312-H332-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P362+P364

**Chromium (III) sulfate > RPE - For analysis****RPE**

Description ..... Green Crystal    Assay .....  $\geq 98\%$     Na .....  $\leq 0.01\%$     Ca .....  $\leq 0.01\%$   
Identification ..... Positive    Chloride .....  $\leq 0.01\%$     Fe .....  $\leq 0.005\%$

Code	Size	Packaging	Notes
440955	250 g	Plastic bottle	
440957	1 kg	Plastic bottle	

**Chromium (VI) oxide**

• Cromo (VI) ossido • Chrome (VI) oxyde • Cromo (VI) óxido • Chrom (VI) oxid

Synonym:

Chromic anhydride

$\text{CrO}_3$   
Molecular Weight: 99,99  
CAS: 1333-82-0  
EEC-N: 215-607-8

**Classification transport**  
ONU: 1463  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H271-H301-H311-H330-H314-H334-H317-H340-  
H350-H361f-H372-H410-HA26  
P210-P280-P283-P284-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P342+P311a-P403+P233

**Chromium (VI) oxide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... Purple crystals    Chloride .....  $\leq 50$  ppm    Fe,Al,Ba .....  $\leq 300$  ppm  
Identification ..... Positive    Nitrate .....  $\leq 500$  ppm    Na .....  $\leq 0.2\%$   
Water-insoluble matter .....  $\leq 100$  ppm    Sulphate .....  $\leq 50$  ppm    Assay (oxidimetric) .....  $\geq 98.0\%$

Code	Size	Packaging	Notes
421735	250 g	Plastic bottle	

**Chromium (VI) oxide solution**

• Cromo (VI) ossido soluzione • Chrome (VI) oxyde solution • Cromo (VI) óxido solución • Chrom (VI) oxidlösung

Synonym:

Chromic anhydride

$\text{CrO}_3$   
Molecular Weight: 99,99  
CAS: 1333-82-0

**Classification transport**  
ONU: 1755  
Transport Hazard class: 8  
Packing group II





**Danger**  
H271-H301-H312-H330-H314-H334-H317-H340-  
H350-H361f-H335-H372-H410-HA26  
P210-P280-P283-P284-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P342+P311a-P403+P233

**Chromium (VI) oxide solution > RE - Pure****RE**

Description ..... Orange clear liquid    Chloride .....  $\leq 500$  ppm    Assay (oxidimetric) .....  $294.6 \div 300.6$  g/l  
Identification ..... Positive    Sulphate .....  $\leq 0.1\%$

Code	Size	Packaging	Notes
317511	2.5 l	Glass bottle	





	<b>Chromotropic acid disodium salt</b>	Synonym: • 4,5-Dihydroxynaphtalene-2,7-disulfonic acid disodium salt • 1,8-Dihydroxynaphtalene-3,6-disulfonic acid disodium salt
	<ul style="list-style-type: none"> <li>• Acido cromotropico sale bisodico</li> <li>• Acide chromotropique sel disodique</li> <li>• Acido cromotrópico sal disódica</li> <li>• Chromotropsäure Dinatriumsalz-Dihydrat</li> </ul>	
$C_{10}H_6Na_2O_8S_2 \cdot 2H_2O$ Molecular Weight: 400,29 CAS: 5808-22-0 EEC-N: 204-972-9		 <b>Warning</b> H315-H319-H335 P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233

### Chromotropic acid disodium salt > RPE - For analysis

**RPE**

Description ..... Whitish powder      Water-insoluble matter ..... ≤ 0.02 %      Formaldehyde sensit..... Conform  
 Identification ..... Positive      Nitrate sensitivity ..... Conform      Assay (acidimetric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
404872	25 g	Glass bottle	

	<b>Chrysoidine Y</b>	Synonym: Basic orange 2,4-Phenylazo-m-phenylene diamine monohydrochloride
	<ul style="list-style-type: none"> <li>• Crisoidina Y</li> <li>• Chrysoidine Y</li> <li>• Crisoidina Y</li> <li>• Chrysoidin Y</li> </ul>	
$C_{12}H_{13}ClN_4$ Molecular Weight: 248,71 CAS: 532-82-1 EEC-N: 208-545-8		<b>Danger</b> H302-H315-H318-H341-H410 P280-P305+P351+P338-P310a-P308+P313-P330-P362+P364
<b>Classification transport</b> ONU: 3143 Transport Hazard class: 6.1 Packing group III		



### Chrysoidine Y > RS - For microscopy - C.I. 11270

**RS**

Description ..... Dark red powder      Identification ..... Positive

Code	Size	Packaging	Notes
440572	25 g	Glass bottle	

**Dye for bacteriology and botanic**



	<b>Cinchonine</b>	Synonym: 3,7-Dimethyl-2,6-octadienal
	<ul style="list-style-type: none"> <li>• Cinconina</li> <li>• Cinchonine</li> <li>• Cinconina</li> <li>• Cinchonin</li> </ul>	
$C_{19}H_{22}N_2O$ Molecular Weight: 294,4 CAS: 118-10-5 EEC-N: 204-234-6		 <b>Warning</b> H302-H332 P261-P264-P271-P301+P312a-P304+P340-P501a

### Cinchonine > RPE - For analysis

**RPE**

Description ..... White powder      Specific optical rotation (c=5 in Ethano..... +225 ÷ +230 °      Dil. H2SO4-ins. matter..... ≤ 200 ppm      Fe ..... ≤ 10 ppm  
 Identification ..... Positive      Loss on drying ..... ≤ 1 %      Heavy metals (Pb)..... ≤ 10 ppm      Assay (non-aqueous medium) ..... ≥ 99 %  
 Ready carbonizable substances..... Conform      Total chlorine ..... ≤ 300 ppm      Residue on ignition ..... ≤ 0.1 %  
 Melting point..... 260 ÷ 265 °C      Total sulphur ..... ≤ 50 ppm

Code	Size	Packaging	Notes
437251	10 g	Glass bottle	

	<b>Citral</b>	Synonym: 3,7-Dimethyl-2,6-octadienal
	<ul style="list-style-type: none"> <li>• Citrale</li> <li>• Citral</li> <li>• Citral</li> <li>• Citral</li> </ul>	
$C_{10}H_{16}O$ Molecular Weight: 152,24 CAS: 5392-40-5 EEC-N: 226-394-6		 <b>Warning</b> H315-H317 P261-P264-P280g-P362+P364-P333+P313-P501a

### Citral > RE - Pure

**RE**

Description ..... Yellow liquid      Density at 20° C ..... 0.886 ÷ 0.890      Residue on ignition ..... ≤ 500 ppm  
 Identification ..... Positive      Refractive index at 20°C ..... 1.4870 ÷ 1.4910      Assay (GLC) ..... ≥ 97 %

Code	Size	Packaging	Notes
437401	25 ml	Glass bottle	

**Citric acid anhydrous**

• Acido citrico anidro • Acide citrique anhydre • Acido citrico anhidro • Zitronensäure wasserfrei



Molecular Weight: 192,13

CAS: 77-92-9

EEC-N: 201-069-1

**Warning**

H319

P264-P280i-P305+P351+P338-P337+P313

**Citric acid anhydrous > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-BP-DAB-JP****ERBApharm**

Description .....	White crystalline powder	USP-NF	Sulphated ash .....	≤ 0.1 %	Origin (BSE/TSE).....	Vegetable	
Identification .....	Positive	Organic volatile impurities	Conform USP-NF	Sulphate .....	≤ 150 ppm	Residual solvents (Current ICH).....	Conform
Appearance of solution .....	Conform Ph.Eur.	Water (K.F.) .....	≤ 1.0 %	Heavy metals (Pb).....	≤ 10 ppm		
Ready carbonizable substances.....	Conform	Oxalic acid.....	≤ 360 ppm	Assay (acidimetric) .....	99.5 ÷ 100.5 % s.s.		

Code	Size	Packaging	Notes
302486	500 g	Plastic bottle	
302487	1 kg	Plastic bottle	
302485	5 kg	Plastic tank	
302488	25 kg	Plastic bucket	
302484	50 kg	Fibre drum	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade***Citric acid monohydrate**

• Acido citrico monoidrato • Acide citrique monohydraté • Acido citrico monohidrato • Zitronensäure monohydrat



Molecular Weight: 192,12

CAS: 5949-29-1

**Warning**

H319

P264-P280i-P305+P351+P338-P337+P313

**Citric acid monohydrate > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611021000	100 g	Glass bottle	Ref Ph.Eur 1021000

**Citric acid monohydrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP****RPE**

Description .....	White crystals	Sulphate .....	≤20 ppm	Appearance of solution .....	Conform	Heavy metals (Pb).....	≤10 ppm
Identification .....	Positive	Fe .....	≤3 ppm	Organic volatile impurities .....	Conform	As .....	≤3 ppm
Water-insoluble matter .....	≤50 ppm	Pb .....	≤2 ppm	Water (K.F.) .....	7.5 ÷ 8.8 %	Assay (acidimetric) .....	99.5 ÷ 100.5 % s.s.
Chloride.....	≤10 ppm	Substances darkened by sulphuric acid .....	Conform	Oxalic acid.....	≤350 ppm		
Phosphate .....	≤10 ppm			Sulphated ash .....	≤200 ppm		

Code	Size	Packaging	Notes
403725	250 g	Plastic bottle	
403727	1 kg	Plastic bottle	
403721	5 kg	Plastic tank	
403724	25 kg	Plastic bucket	
403722	50 kg	Fibre drum	

**Citric acid monohydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-BP-DAB****ERBApharm**

Description .....	White crystals	Appearance of solution .....	Conform Ph.Eur.	Oxalic acid.....	≤ 360 ppm	Assay (acidimetric) .....	99.5 ÷ 100.5 % s.s.
Identification (I.R.).....	Positive	Ready carbonizable substances.....	Conform	Sulphated ash.....	≤ 0.1 %	Residual solvents (Current ICH).....	Conform
Clarity of solution.....	Conform	USP-NF		Sulphate .....	≤ 150 ppm		
Color of solution .....	Conform	Water (K.F.) .....	7.5 ÷ 9.0 %	Heavy metals (Pb).....	≤ 10 ppm		

Code	Size	Packaging	Notes
302557	1 kg	Plastic bottle	
302559	5 kg	Plastic tank	
302551	25 kg	Plastic bucket	
302554	50 kg	Fibre drum	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

## Citric acid monohydrate > ERBApharm - Powder - According to pharmacopoeia: Ph.Eur.-USP-FU-BP-DAB

**ERBApharm**

Description .....	White crystalline powder	USP-NF	Sulphate .....	≤ 150 ppm	Residual solvents (Current ICH).....	Conform
Identification .....	Positive	Water (K.F.) .....	7.5 ÷ 9.0 %	Heavy metals (Pb).....	≤ 10 ppm	
Appearance of solution .....	Conform Ph.Eur.	Oxalic acid .....	≤ 360 ppm	Assay (acidimetric) .....	99.5 ÷ 100.5 % s.s.	
Ready carbonizable substances.....	Conform	Sulphated ash .....	≤ 0.1 %	Origin (BSE/TSE).....	Vegetable	

Code	Size	Packaging	Notes
302507	1 kg	Plastic bottle	
302509	5 kg	Plastic tank	
302501	25 kg	Plastic bucket	
302504	50 kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Clayton's yellow

• Giallo Clayton • Jaune Clayton • Amarillo Clayton • Titangelb

Synonym:  
• Thiazole Yellow G  
• Direct Yellow 9

$C_{28}H_{19}N_5O_6S_4Na_2$   
Molecular Weight: 695,73  
CAS: 1829-00-1  
EEC-N: 217-377-4

## Clayton's yellow > RPE - For analysis - C.I. 19540

**RPE**

Description .....	Yellow brown powder	pH range .....	1.2 - 13.2	Mg sensitivity .....	≤ 0.5 µg/ml
Identification .....	Positive	Loss on drying .....	≤ 10 %	Residue on ignition .....	18.4 ÷ 22.4 %

Code	Size	Packaging	Notes
453518	5 g	Glass bottle	
453519	25 g	Glass bottle	

**Dye for microscopy. Indicator acid - base (pH 12.0 ÷ 13.0). Fluorescence indicator. For the determination of magnesium**



## Cobalt standard solution

• Cobalto standard soluzione • Cobalt standard solution • Cobalto, solución patrón • Kobalt-Standardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Danger

H290-H314-H350i-H412-HEU208-HA26  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

## Cobalt standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

**RS**

Code	Size	Packaging	Notes
615004300	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5004300

## Cobalt standard solution > RS - Standard solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
505562	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505565	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505563	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Cobalt standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503511	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503513	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503515	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503517	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Cobalt standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507533	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507484	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497495	100 ml	Bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497491	500 ml	Bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Cobalt standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
439131		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

**Cobalt (II) acetate tetrahydrate**

- Cobalto acetato oso tetraidrato • Cobalt (II) acétate tétrahydraté • Cobalto (II) acetato tetrahidrato
- Kobalt (II) acetattetrahydrat

Synonym:  
*Cobaltous acetate tetrahydrate*

$\text{Co}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$   
Molecular Weight: 249,08  
CAS: 6147-53-1  
EEC-N: 200-755-8

**Danger**

H302-H334-H317-H351  
P261-P280-P284-P304+P340-P308+P313-  
P342+P311a

**Cobalt (II) acetate tetrahydrate > RPE - For analysis**

RPE

Description ..... Brown-red crystal Chloride..... ≤ 0.005 % Cu..... ≤ 0.0005 % Assay ..... 98 - 100 %  
Identification ..... Positive Sulfate..... ≤ 0.005 % Fe ..... ≤ 0.001 % Water insolubles..... ≤ 0.01 %

Code	Size	Packaging	Notes
439154	100 g	Glass bottle	
439155	250 g	Glass bottle	
439156	1 kg	Glass bottle	

**Cobalt (II) ammonium sulfate hexahydrate**

- Cobalto ammonio solfato oso esaidrato • Cobalt (II) ammonium sulfate hexahydraté
- Cobalto (II) y amonio sulfato hexahidrato • Kobalt (II) ammoniumsulfathexahydrat

Synonym:  
*Ammonium cobalt(II) sulfate hexahydrate*

$\text{Co}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 395,23  
CAS: 13596-46-8  
EEC-N: 237-043-1

**Warning**

H302-H332-H315-H319-H317-H335  
P261-P271-P304+P340-P305+P351+P338-  
P337+P313-P403+P233

**Cobalt (II) ammonium sulfate hexahydrate > RPE - For analysis**

RPE

Description ..... Red crystal, powder Identification ..... Positive pH sol. 5% at 25° C ..... 4.0 ÷ 7.0 Assay (complexometric) ..... ≥98 %

Code	Size	Packaging	Notes
439204	100 g	Glass bottle	
439207	1 kg	Glass bottle	



## Cobalt (II) chloride hexahydrate

- Cobalto cloruro oso esaidrato • Cobalt (II) chlorure hexahydrate • Cobalto (II) cloruro hexahidratato
- Kobalt (II) chloridhexahydrat

Synonym:  
*Cobaltous chloride hexahydrate*

CoCl<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 237,93  
CAS: 7791-13-1  
EEC-N: 231-589-4

**Classification transport**  
ONU: 3288  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H302-H334-H317-H350i-H410-HA26  
P261-P280-P284-P304+P340-P308+P313-  
P342+P311a

### Cobalt (II) chloride hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Red-violet crystals	Sulphate .....	≤ 100 ppm	K .....	≤ 100 ppm	Zn .....	≤ 300 ppm
Identification .....	Positive	Ca .....	≤ 50 ppm	Mg .....	≤ 50 ppm	Assay (complexometric) ....	98.0 ÷ 102.0 %
Water-insoluble matter .....	≤ 100 ppm	Cu .....	≤ 20 ppm	Na .....	≤ 500 ppm		
Nitrate .....	≤ 100 ppm	Fe .....	≤ 50 ppm	Ni .....	≤ 0.1 %		

Code	Size	Packaging	Notes
439355	250 g	Plastic bottle	
439357	1 kg	Plastic bottle	
439353	25 kg	Sack	



## Cobalt (II) chloride in solution

- Cobalto (II) cloruro in soluzione • Cobalt (II) chlorure en solution • Cobalto (II) cloruro en solución • Kobalt (II) chlorid in Lösung

CoCl<sub>2</sub>  
Molecular Weight: 129,84  
CAS: 7646-79-9

### Cobalt (II) chloride in solution > RS - For analysis according to JP

**RS**

Code	Size	Packaging	Notes
616001028	100 ml	Plastic bottle	Cobaltous Chloride CS

### Cobalt (II) chloride in solution > RS - For analysis according to USP

**RS**

Code	Size	Packaging	Notes
616001057	500 ml	Plastic bottle	Cobaltous Chloride CS



## Cobalt (II) nitrate hexahydrate

- Cobalto nitrato oso esaidrato • Cobalt (II) nitrate hexahydrate • Cobalto (II) nitrato hexahidratato
- Kobalt (II) nitrathexahydrat

Synonym:  
*Cobaltous nitrate hexahydrate*

Co(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 291,04  
CAS: 10026-22-9  
EEC-N: 233-402-1

**Classification transport**  
ONU: 1477  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H302-H334-H317-H341-H350i-H360F-H410-  
HA26  
P210-P261-P280-P284-P304+P340-P342+P311a

### Cobalt (II) nitrate hexahydrate > RS - For enviromental analysis - ACS

**RS**

Description .....	Red crystals	Chloride .....	≤ 20 ppm	Fe .....	≤ 10 ppm	Ni .....	≤ 0.15 %
Identification .....	Positive	Sulphate .....	≤ 50 ppm	K .....	≤ 100 ppm	Pb .....	≤ 20 ppm
Water-insoluble matter .....	≤ 100 ppm	Ca .....	≤ 50 ppm	Mg .....	≤ 50 ppm	Zn .....	≤ 100 ppm
Ammonium .....	≤ 0.2 %	Cu .....	≤ 20 ppm	Na .....	≤ 500 ppm	Assay (complexometric) ....	98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
439504	100 g	Glass bottle	

**Cobalt (II) nitrate hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP**

RPE

Description .....	Red brick crystals	Sulphate .....	≤ 50 ppm	K .....	≤ 100 ppm	Pb .....	≤ 20 ppm
Identification .....	Positive	Ca .....	≤ 50 ppm	Mg .....	≤ 50 ppm	Zn .....	≤ 100 ppm
Water-insoluble matter .....	≤ 100 ppm	Cu .....	≤ 20 ppm	Na .....	≤ 500 ppm	Assay (complexometric) ...	98.0 ÷ 102.0 %
Chloride .....	≤ 20 ppm	Fe .....	≤ 10 ppm	Ni .....	≤ 0.15 %		

Code	Size	Packaging	Notes
439455	250 g	Plastic bottle	
439457	1 kg	Plastic bottle	

**Cobalt (II) sulfate heptahydrate**

• Cobalto solfato oso eptaidrato • Cobalt (II) sulfate heptahydrate • Cobalto (II) sulfato heptahidratato  
• Kobalt (II) sulfatheptahydrat

Synonym:  
*Cobaltous sulfate heptahydrate*

CoSO<sub>4</sub>·7H<sub>2</sub>O  
Molecular Weight: 281.10  
CAS: 10026-24-1  
EEC-N: 233-334-2

**Danger**

H302-H334-H317-H350-H410-HA26  
P261-P280-P284-P304+P340-P308+P313-  
P342+P311a

**Cobalt (II) sulfate heptahydrate > RPE - For analysis**

RPE

Description .....	Red crystals	Chloride .....	≤ 20 ppm	Cu .....	≤ 10 ppm	Zn .....	≤ 20 ppm
Identification .....	Positive	Water-insoluble matter .....	≤ 30 ppm	Fe .....	≤ 10 ppm	Assay (complexometric) .....	≥ 99 %
pH sol. 5% at 25° C .....	3.5 ÷ 4.5	Nitrate .....	≤ 50 ppm	Ni .....	≤ 500 ppm		
Ammonium .....	≤ 100 ppm	Subst. not ppt. (NH <sub>4</sub> ) <sub>2</sub> S .....	≤ 0.1 %	Pb .....	≤ 10 ppm		

Code	Size	Packaging	Notes
439705	250 g	Plastic bottle	

**Congo red**

• Rosso Congo • Rouge Congo • Rojo Congo • Kongo-Rot

Synonym:  
*Direct Red 28*

C<sub>32</sub>H<sub>22</sub>N<sub>6</sub>Na<sub>2</sub>O<sub>6</sub>S<sub>2</sub>  
Molecular Weight: 696,66  
CAS: 573-58-0  
EEC-N: 209-358-4

**Danger**

H350-H361d-HA26  
P201-P202-P280-P308+P313-P405-P501a

**Congo red > RPE - For analysis - C.I. 22120**

RPE

Description .....	Red brown powder	Identification .....	Positive	Colour change .....	blue red	pH range .....	3.0 - 5.2
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Code	Size	Packaging	Notes
476762	25 g	Glass bottle	
476764	100 g	Plastic bottle	

**Dye for microscopy (histology). Indicator acid - base**

**Congo red paper**

• Cartina rosso Congo • Papier rouge Congo • Rojo Congo papel • Kongorotes Papier

**Danger**

H350-HA26  
P201-P202-P280-P308+P313-P405-P501a

**Congo red paper > RS - For pHmetry**

RS

Code	Size	Packaging	Notes
435220000	1 roll	Dispenser	Congo red paper, Color change: red --> Blue, Change pH 5.0-->3.0



 **Congo red solution**  
 • Rosso Congo soluzione • Rouge Congo solution • Rojo Congo solución • Rote Kongo-Lösung

Synonym:  
Direct Red 28

$C_{32}H_{22}N_6Na_2O_6S_2$   
 Molecular Weight: 696,66  
 CAS: 573-58-0

**Classification transport**  
 ONU: 1170  
 Transport Hazard class: 3  
 Packing group III



**Danger**  
 H226-H350-HA26  
 P210-P241-P280-P303+P361+P353-P308+P313-P403+P235

**Congo red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611022001	100 ml	Plastic bottle	Ref Ph.Eur 1022001

**Change colour: pH 3.0 (blue) to pH 5.0 (pink)**

 **Coomassie brilliant blue R 250**  
 • Blu Coomassie R250 • Bleu de Coomassie brillant R 250 • Azul Coomassie R 250  
 • Helles Coomassie Blue R 250

Synonym:  
• Brilliant Blue R  
• Acid Blue 83

$C_{45}H_{44}N_3NaO_7S_2$   
 Molecular Weight: 825,99  
 CAS: 6104-59-2  
 EEC-N: 228-060-5



**Warning**  
 H302-H312-H332  
 P261-P264-P271-P280h-P301+P312a-P304+P340

**Coomassie brilliant blue R 250 > RS - For microscopy - C.I. 42660**

RS

Description ..... Dark violet powder Identification ..... Positive E (1%/1cm lambda max) ..... ≥ 300

Code	Size	Packaging	Notes
428642	25 g	Glass bottle	

**Dye for histochemistry**

 **Copper electrolytic rebaked, sheet**  
 • Rame elettrolitico lastra ricotta • Cuivre électrolytique recuit, feuilles • Cobre electrolítico recocado, hojas • Kupferelektrolyt überbacken, Blatt

Cu  
 Molecular Weight: 63,55  
 CAS: 7440-50-8  
 EEC-N: 231-159-6

H413  
 P273-P501a

**Copper electrolytic rebaked, sheet > RPE - For analysis**

RPE

Description ..... Metallic sheet Identification ..... Positive Assay ..... ≥ 99.8 %

Code	Size	Packaging	Notes
475215	250 g	Box	

**~ 0,15 mm thickness**

 **Copper electrolytic, turnings**  
 • Rame elettrolitico, tornitura • Cuivre électrolytique, tournures • Cobre electrolítico, virutas • Kupferelektrolyt, Späne

Cu  
 Molecular Weight: 63,55  
 CAS: 7440-50-8  
 EEC-N: 231-159-6

H413  
 P273-P501a

**Copper electrolytic, turnings > RPE - For analysis**

RPE

Description ..... Trucioli metallici Identification ..... Positive Assay ..... ≥ 99 %

Code	Size	Packaging	Notes
475305	250 g	Carton box	
475307	1 kg	Plastic bottle	

**Copper electrolytic, wire**

• Rame elettrolitico, filo • Cuivre électrolytique, fils • Cobre electrolítico, hilos • Kupferelektrolyt, Draht

Cu	H413
Molecular Weight: 63,55	P273-P501a
CAS: 7440-50-8	
EEC-N: 231-159-6	

**Copper electrolytic, wire > RPE - For analysis****RPE**

Description .....	Filo	Sn + Sb.....≤200 ppm	Fe.....≤50 ppm	Pb.....≤200 ppm
Identification .....	Positive	Ag.....≤100 ppm	Mn.....≤10 ppm	Assay.....≥99.9 %
HNO <sub>3</sub> -insoluble matter .....	≤300 ppm	As.....≤5 ppm	P.....≤10 ppm	

Code	Size	Packaging	Notes
475185	250 g	Box	
475187	1 kg	Box	

~ 1 mm diameter

**Copper reduced, powder**

• Rame ridotto, polvere • Cuivre réduit, poudre • Cobre reducido, polvo • Kupfer reduziert, Pulver

Cu	H413
Molecular Weight: 63,55	P273-P501a
CAS: 7440-50-8	
EEC-N: 231-159-6	

**Copper reduced, powder > RPE - For analysis - Reag. Ph. Eur.****RPE**

Description .....	Red-brown metallic powder	Identification .....	Positive	Assay .....	≥ 98.5 % (Cu)
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Code	Size	Packaging	Notes
475334	100 g	Glass bottle	
475337	1 kg	Glass bottle	

**Copper standard solution**

• Rame standard soluzione • Cuivre standard solution • Cobre, solución patrón • Kupfer-Standardlösung

**Classification transport**

ONU: 3264  
 Transport Hazard class: 8  
 Packing group III

**Warning**

H290  
 P234-P390-P406

**Copper standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615001100	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001100

**Copper standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505577	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505578	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505579	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Copper standard solution > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
503541	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503543	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503545	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503547	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Copper standard solution > RS - Standard solution for AAS

**RS**

Description ..... Clear blue liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
504545	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507478	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497615	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497611	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Copper standard solution > RS - NORMEX - Concentrated solution for AAS

**RS**

Description ..... Green clear liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
475151		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Copper standard solution > RS - Quality control standard solution for AAS (graphite furnace)

**RS**

Code	Size	Packaging	Notes
504361	50 ml	Plastic bottle	conc. 10 ppb - Matrix: 2% Nitric acid



## Copper (I) chloride

• Rame cloruro oso • Cuivre (I) chlorure • Cobre (I) cloruro • Kupfer (I) chlorid

Synonym:

- Cuprous chloride
- Copper monochloride

CuCl  
Molecular Weight: 98,99  
CAS: 7758-89-6  
EEC-N: 231-842-9

**Classification transport**  
ONU: 2802  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H312-H315-H318-H410  
P264-P305+P351+P338-P310a-P330-P362+P364-P332+P313

## Copper (I) chloride > RPE - For analysis

**RPE**

Description ..... green-dark powder Acid insoluble ..... ≤ 0.5 % Fe ..... ≤ 0.02 %  
Identification ..... Positive Sulphate ..... ≤ 0.5 % Titolo (manganometric) ..... ≥ 97 %

Code	Size	Packaging	Notes
475605	250 g	Plastic bottle	
475607	1 kg	Plastic bottle	

**Copper (I) chloride solution 7% in ammonia**

• Rame cloruro oso soluzione 7% in ammoniacca • Cuivre (I) chlorure solution 7% dans l'ammoniaque  
• Cobre (I) cloruro solución 7% en amonio hidróxido • Kupfer (I) chloridlösung 7% in Ammoniak

Synonym:

• *Cuprous chloride*  
• *Copper monochloride*

CuCl  
Molecular Weight: 98,99  
CAS: 7758-89-6

**Danger**

H314-H335-H411  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

**Copper (I) chloride solution 7% in ammonia > RS - For gas analysis according to Orsat****RS**

Description ..... Blue liquid Identification ..... Positive Density at 20° C ..... ~ 1.08 Assay ..... 6.5 ÷ 7.5 %

Code	Size	Packaging	Notes
E475632	1 l	Bottle	

**Stabilized electrolytic copper****Copper (I) iodide**

• Rame ioduro oso • Cuivre (I) iodure • Cobre (I) ioduro • Kupfer (I) iodid

Synonym:

• *Cuprous iodide*

CuI  
Molecular Weight: 190,45  
CAS: 7681-65-4  
EEC-N: 231-674-6

**Danger**

H302-H315-H318-H317-H372-H400-H411  
P260-P264-P305+P351+P338-P310a-P330-  
P362+P364

**Copper (I) iodide > RE - Pure****RE**

Description ..... Polvere nocciola ammass. Identification ..... Positive Assay (oxidimetric) ..... >98 %

Code	Size	Packaging	Notes
364611	25 kg	Plastic bucket	

**Copper (I) iodide > RE - Pure - For fibers****RE**

Description ..... Polvere nocciola Sulphate ..... ≤ 0.05 % K ..... ≤ 0.05 % Zn ..... ≤ 50 ppm  
Identification ..... Positive Cd ..... ≤ 50 ppm Ni ..... ≤ 50 ppm Assay (oxidimetric) ..... ≥ 98 %  
Chloride ..... ≤ 0.05 % Fe ..... ≤ 50 ppm Pb ..... ≤ 100 ppm

Code	Size	Packaging	Notes
364637	1 kg	Plastic bottle	
364631	25 kg	Plastic bucket	

**Copper (II) acetate hydrate**

• Rame acetato ico idrato • Cuivre (II) acétate hydrate • Cobre (II) acetato hidrato • Kupfer (II) acetathydrat

Synonym:

• *Cupric acetate monohydrate*

$\text{Cu}(\text{CH}_3\text{COO})_2 \cdot \text{H}_2\text{O}$   
Molecular Weight: 199,65  
CAS: 6046-93-1  
EEC-N: 205-553-3

**Warning**

H302  
P264-P270-P301+P312a-P330-P501a

**Copper (II) acetate hydrate > RPE - For analysis - ACS****RPE**

Description Green-azure crystalline powder Water-insoluble matter ..... ≤ 100 ppm K ..... ≤ 100 ppm Assay (oxidimetric) ..... 98.0 ÷ 102.0 %  
Identification ..... Positive Sulphate ..... ≤ 100 ppm Ni ..... ≤ 100 ppm  
Chloride ..... ≤ 30 ppm Ca ..... ≤ 50 ppm Na ..... ≤ 500 ppm

Code	Size	Packaging	Notes
475405	250 g	Plastic bottle	
475407	1 kg	Plastic bottle	

## Copper (II) acetate hydrate > RE - Pure

**RE**

Description .. Dark green crystalline powder Chloride ..... ≤ 200 ppm Sulphate ..... ≤ 0.1 % Assay (oxydometric) ..... ≥ 98.0 %  
 Identification ..... Positive pH (5%/m solution) ..... 5.0 - 6.0 Fe ..... ≤ 250 ppm

Code	Size	Packaging	Notes
364007	1 kg	Plastic bottle	
364008	25 kg	Plastic bucket	

## Copper (II) carbonate (basic)

• Rame carbonato basico ico • Cuivre (II) carbonate basique • Cobre (II) carbonato básico  
 • Kupfer(II)-hydroxidcarbonat

Synonym:  
*Cupric carbonate basic*

CuCO3.Cu(OH)2  
 Molecular Weight: 221,12  
 CAS: 12069-69-1  
 EEC-N: 235-113-6

**Classification transport**  
 ONU: 3077  
 Transport Hazard class: 9  
 Packing group III



**Warning**  
 H302-H332-H319-H410  
 P261-P264-P271-P304+P340-P305+P351+P338-  
 P337+P313

## Copper (II) carbonate (basic) > RPE - For analysis

**RPE**

Description ..... Green azure powder Pb ..... ≤ 100 ppm Chlorine ..... ≤ 250 ppm  
 Identification ..... Positive Assay (oxidimetric) ..... 53 ÷ 57 % (Cu) Specific gravity ..... 0.8 ÷ 1.05 g/cm3  
 Fe ..... ≤ 300 ppm Cd ..... ≤ 10 ppm Acidity solubility ..... Complete

Code	Size	Packaging	Notes
475555	250 g	Plastic bottle	
475557	1 kg	Plastic bottle	
475553	25 kg	Plastic bucket	

## Copper (II) chloride dihydrate

• Rame cloruro ico diidrato • Cuivre (II) chlorure dihydraté • Cobre (II) cloruro dihidrato  
 • Kupfer(II)-chlorid-Dihydrat

Synonym:  
*Cupric chloride dihydrate*

CuCl2.2H2O  
 Molecular Weight: 170,47  
 CAS: 10125-13-0  
 EEC-N: 215-704-5

**Classification transport**  
 ONU: 2802  
 Transport Hazard class: 8  
 Packing group III



**Danger**  
 H290-H302-H312-H318-H400-H411  
 P264-P280-P305+P351+P338-P310a-P330-  
 P362+P364

## Copper (II) chloride dihydrate > RPE - For analysis

**RPE**

Description ..... Green - azure crystals Assay (complexometric) ..... ≥ 99 % Na ..... ≤ 20 ppm Ni ..... ≤ 50 ppm  
 Identification ..... Positive Ca ..... ≤ 20 ppm Sulphate ..... ≤ 50 ppm Pb ..... ≤ 40 ppm  
 pH sol. 5% at 20°C ..... 3.0 ÷ 3.8 K ..... ≤ 20 ppm As ..... ≤ 1 ppm  
 Total nitrogen ..... ≤ 40 ppm Mg ..... ≤ 20 ppm Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
475685	250 g	Plastic bottle	
475687	1 kg	Plastic bottle	

## Copper (II) chloride dihydrate > RE - Pure

**RE**

Description ..... Blue crystals Nitrogen compounds (N) ..... ≤ 0.004 % K ..... ≤ 20 ppm Assay ..... ≥ 99 %  
 Identification ..... Positive As ..... ≤ 1 ppm Zn ..... ≤ 0.05 %  
 pH sol. 5% at 20°C ..... 3 ÷ 3.8 Ca ..... ≤ 20 ppm Solubility ..... Conform  
 Sulphate ..... ≤ 50 ppm Nitrate ..... ≤ 0.5 % Pb ..... ≤ 40 ppm

Code	Size	Packaging	Notes
364507	1 kg	Plastic bottle	
364508	5 kg	Plastic tank	

**Copper (II) nitrate trihydrate**

• Rame nitrato ico triidrato • Cuivre (II) nitrato trihydraté • Cobre (II) nitrato trihidrato  
• Kupfer(II) nitrat-trihydrat

Synonym:  
Cupric nitrate trihydrate

$\text{Cu}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$   
Molecular Weight: 241,6  
CAS: 10031-43-3  
EEC-N: 221-838-5

**Classification transport**

ONU: 1477  
Transport Hazard class: 5.1  
Packing group II

**Danger**

H272-H302  
P210-P220-P264-P280-P301+P312a-P501a

**Copper (II) nitrate trihydrate > RPE - For analysis****RPE**

Description ..... Blue crystals	Chloride ..... ≤10 ppm	Sulphate ..... ≤25 ppm	Ni ..... ≤10 ppm
Identification ..... Positive	Water-insoluble matter ..... ≤30 ppm	As ..... ≤1 ppm	Pb ..... ≤10 ppm
pH sol. 5% at 25° C ..... 3.0 ÷ 4.0	Substances not ppt. H <sub>2</sub> S ..... ≤500 ppm	Ba ..... ≤50 ppm	Zn ..... ≤10 ppm
Ammonium ..... ≤10 ppm	Subst. ppt. by (NH <sub>4</sub> ) <sub>2</sub> S ..... ≤50 ppm	Fe ..... ≤20 ppm	Assay (oxidimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
475782	100 g	Plastic bottle	
475786	500 g	Plastic bottle	
475783	1 kg	Plastic bottle	
475784	2.5 kg	Plastic bottle	

**Copper (II) oxide**

• Rame ossido ico • Cuivre (II) oxyde • Cobre (II) óxido • Kupfer(II) oxid

Synonym:  
Cupric oxide

CuO  
Molecular Weight: 79,55  
CAS: 1317-38-0  
EEC-N: 215-269-1

**Warning**

H302-H410  
P264-P270-P301+P312a-P330-P391-P501a

**Copper (II) oxide > RPE - For analysis****RPE**

Description ..... Black powder	HNO <sub>3</sub> -insoluble matter ..... ≤ 0.02 %	Zolfo totale (SO <sub>4</sub> ) ..... ≤ 0.01 %
Identification ..... Positive	Substances not ppt. H <sub>2</sub> S ..... ≤ 0.2 %	C ..... ≤ 500 ppm
Free alkalis ..... Conform	Nitrogen compounds (N) ..... ≤ 0.002 %	Assay (iodometric) ..... ≥ 99 %

Code	Size	Packaging	Notes
475994	100 g	Glass bottle	
475997	1 kg	Glass bottle	

**Copper (II) oxide wire**

• Rame ossido filo • Cuivre (II) oxyde en fils • Cobre (II) óxido hilos • Kupfer (II) oxiddraht

Synonym:  
Cupric oxide

CuO  
Molecular Weight: 79,55  
CAS: 1317-38-0  
EEC-N: 215-269-1

**Warning**

H302-H410  
P264-P270-P301+P312a-P330-P391-P501a

**Copper (II) oxide wire > RS - For microanalysis - ACS****RS**

Description ..... Grey wire	Nitrogen compounds (N) ..... ≤20 ppm	Sulphur compounds ..... ≤120 ppm
Identification ..... Positive	Carbon compounds ..... ≤20 ppm	

Code	Size	Packaging	Notes
475966	500 g	Plastic bottle	



**Copper (II) sulfate anhydrous** Synonym: *Cupric sulfate*  
 • Rame solfato ico anidro • Cuivre (II) sulfate anhydre • Cobre (II) sulfato anhidro • Kupfer(II) sulfat wasserfrei

CuSO<sub>4</sub>  
 Molecular Weight: 159,6  
 CAS: 7758-98-7  
 EEC-N: 231-847-6

**Classification transport**  
 ONU: 3077  
 Transport Hazard class: 9  
 Packing group III

**Warning**  
 H302-H315-H319-H410  
 P264-P280a-P305+P351+P338-P332+P313-  
 P362+P364-P337+P313

**Copper (II) sulfate anhydrous > RPE - For analysis**

**RPE**

Description ..... Greyish powder    Dil. H2SO4-ins. matter ..... ≤50 ppm    Mg ..... ≤100 ppm    Assay (oxidimetric) ..... 99 ÷ 100.5 % (s.s.)  
 Identification ..... Positive    Ca ..... ≤50 ppm    Na ..... ≤200 ppm  
 Loss on drying ..... ≤1 %    Fe ..... ≤30 ppm    Ni ..... ≤50 ppm  
 Chloride ..... ≤100 ppm    K ..... ≤100 ppm    Pb ..... ≤80 ppm

Code	Size	Packaging	Notes
476245	250 g	Plastic bottle	
476247	1 kg	Plastic bottle	
476243	25 kg	Plastic bucket	

**Copper (II) sulfate anhydrous > RE - Pure**

**RE**

Description ..... Grey powder    Fe ..... ≤0.1 %    Assay (oxidimetric) ..... ≥97 %  
 Identification ..... Positive    Water-insoluble matter ..... ≤0.1 %

Code	Size	Packaging	Notes
365006	500 g	Plastic bottle	
365007	1 kg	Plastic bottle	
365002	25 kg	Plastic bucket	

**Copper (II) sulfate pentahydrate** Synonym: *Blue Vitriol*  
 • Rame solfato ico pentaidrato • Cuivre (II) sulfate pentahydraté • Cobre (II) sulfato pentahidratado  
 • Kupfer(II)-sulfat-Pentahydrat

CuSO<sub>4</sub>·5H<sub>2</sub>O  
 Molecular Weight: 249,68  
 CAS: 7758-99-8  
 EEC-N: 231-847-6

**Danger**  
 H302-H318-H410  
 P264-P280i-P301+P312a-P305+P351+P338-P310a-  
 P501a

**Copper (II) sulfate pentahydrate > RS - For microanalysis**

**RS**

Description ..... Blue crystals    Not soluble matter ..... ≤ 0.005 %    Assay (iodometric) ..... 98.0 ÷ 102.0 %  
 Identification ..... Positive    Nitrogen compounds (N) ..... ≤ 0.002 %

Code	Size	Packaging	Notes
476154	100 g	Glass bottle	

**Copper (II) sulfate pentahydrate > RPE - For analysis - ACS**

**RPE**

Description ..... Blue crystals    Chloride ..... ≤10 ppm    Fe ..... ≤30 ppm    Ni ..... ≤50 ppm  
 Identification ..... Positive    H2SO4-insoluble matter ..... ≤50 ppm    K ..... ≤100 ppm    Assay (oxidimetric) ..... 98.0 ÷ 102.0 %  
 Total nitrogen ..... ≤20 ppm    Ca ..... ≤50 ppm    Na ..... ≤200 ppm

Code	Size	Packaging	Notes
476096	100 g	Plastic bottle	
476097	1 kg	Plastic bottle	
476099	5 kg	Plastic jar	
476092	25 kg	Plastic bucket	

**Copper (II) sulfate pentahydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-BP****ERBApharm**

Description .....	Blue crystalline powder	Loss on drying .....	35.0 ÷ 36.5 %	Fe .....	≤30 ppm	Ni .....	≤50 ppm
Identification .....	Positive	Chloride .....	≤100 ppm	K .....	≤100 ppm	Pb .....	≤50.0 ppm
Appearance of solution .....	Conform Ph.Eur.	Ca .....	≤50 ppm	Na .....	≤200 ppm	Assay (oxidimetric) .....	99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
364757	1 kg	Plastic bottle	
364759	5 kg	Plastic tank	
364752	25 kg	Plastic bucket	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

**Copper (II) sulfate solution 12.5%**

• Rame solfato ico soluzione 12.5% • Cuivre (II) sulfate solution 12.5% • Cobre (II) sulfato solución 12.5%  
• Kupfersulfat 12.5 %

Synonym:  
Cupric sulfate

CuSO<sub>4</sub>  
Molecular Weight: 159,6  
CAS: 7758-98-7

**Danger**

H318-H410

P273-P280i-P305+P351+P338-P310a-P391-P501a

**Copper (II) sulfate solution 12.5% > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611022501	100 ml	Plastic bottle	Ref Ph.Eur 1022500

**Copper (II) sulfate solution 12.5% > RPE - For analysis****RPE**

Description .....	Clear blue liquid	Identification .....	Positive	Density at 20° C .....	~ 1.08	Assay (oxidimetric) .....	12.0 ÷ 13.0 %
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Code	Size	Packaging	Notes
E476211	1 l	Bottle	

**Copper (II) sulphate solution**

• Rame (II) solfato in soluzione • Cuivre (II) sulfate en solution • Cobre (II) sulfato de en solución • Kupfer(II)-sulfat in Lösung

CuSO<sub>4</sub>  
Molecular Weight: 159,61  
CAS: 7758-98-7

**Copper (II) sulphate solution > RS - For analysis according to USP****RS**

Code	Size	Packaging	Notes
616001038	100 ml	Plastic bottle	Cupric sulfate CS
616001037	500 ml	Plastic bottle	Cupric sulfate CS

**CPME** ▶ Cyclopentyl methyl ether

	<b>m-Cresol</b>	Synonym: • 3-Hydroxytoluene • 3-Methylphenol
	• m-Cresolo • m-Crésol • m-Cresol • m-Kresol	

$\text{CH}_3\text{C}_6\text{H}_4\text{OH}$ Molecular Weight: 108 CAS: 108-39-4 EEC-N: 203-577-9	<b>Classification transport</b> ONU: 2076 Transport Hazard class: 6.1 Packing group II		<b>Danger</b> H301-H311-H314 P280-P301+P310a-P301+P330+P331- P303+P361+P353-P304+P340-P305+P351+P338
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<b>m-Cresol &gt; RE - Pure</b>			<b>RE</b>
Refractive index at 20°C ..... 1.539 - 1.543 Description ..... Reddish liquid Water content (K.F.) ..... ≤ 500 mg/Kg	Identification ..... Positive Colour ..... ≤ 120 Hazen Water (K.F.) ..... ≤ 0.05 %	m-Cresol ..... ≥ 99 % Assay (GLC) ..... ≥ 99 % o-cresol ..... ≤ 0.3 %	Boiling point ..... ~ 202 °C Density d20/4 ..... None Melting point ..... ~ 12 °C
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
440435	250 g	Glass bottle	
440437	1 kg	Glass bottle	

<b>m-Cresol &gt; RE - Pure - For synthesis</b>			<b>RE</b>
Refractive index at 20°C ..... 1.539 - 1.543 Water content (K.F.) ..... ≤ 500 mg/Kg	Colour ..... ≤ 120 Hazen m-Cresol ..... ≥ 99 %	o-cresol ..... ≤ 0.3 % Density d20/4 ..... None	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
PA160021	2.5 l	Glass bottle	

	<b>o-Cresol</b>	Synonym: 2-Methylphenol
	• o-Cresolo • o-Crésol • o-Cresol • o-Kresol	

$\text{CH}_3\text{C}_6\text{H}_4\text{OH}$ Molecular Weight: 108,14 CAS: 95-48-7 EEC-N: 202-423-8	<b>Classification transport</b> ONU: 3455 Transport Hazard class: 6.1 Packing group II		<b>Danger</b> H301-H311-H314 P280-P301+P310a-P301+P330+P331- P303+P361+P353-P304+P340-P305+P351+P338
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<b>o-Cresol &gt; RE - Pure</b>			<b>RE</b>
Description ..... Colourless to yellow brown liquid or solid Identification ..... Positive	Boiling point ..... 189.5 ÷ 192.5 °C Melting point ..... 29 ÷ 31 °C	Water (K.F.) ..... ≤ 0.3 % Assay (GLC) ..... ≥ 98 %	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
440385	250 g	Glass bottle	
440387	1 kg	Glass bottle	
440381	2.5 Kg	Plastic bottle	

	<b>m-Cresol purple</b>	Synonym: m-Cresolsulfonphthalein
	• Porpora m-cresolo • Pourpre de m-cresol • Púrpura de m-cresol • m-Kresolpurpur	

$\text{C}_{21}\text{H}_{18}\text{O}_5\text{S}$ Molecular Weight: 382,44 CAS: 2303-01-7 EEC-N: 218-960-6			
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<b>m-Cresol purple &gt; RPE - For analysis</b>			<b>RPE</b>
Description ..... Dark green powder Identification ..... Positive	Solubilità (0.1% in EtOH 50%) ..... Complete E (1%/1cm) a 578nm in tamp. .... ≥ 900	Colour change ..... yellow - violet pH range ..... 7.4 ÷ 9.0	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
470067	1 g	Glass bottle	
470068	25 g	Glass bottle	

**Clark indicator series. Acid-base indicator**

**o-Cresol red**

• Rosso o-cresolo • Rouge de o-crésol • Rojo de o-cresol • o-Kresolrot

Synonym:

*o-Cresolsulfonphthalein* $C_{21}H_{18}O_5S$ 

Molecular Weight: 382,44

CAS: 1733-12-6

EEC-N: 217-064-2

**Warning**

H315-H319-H335

P261-P271-P304+P340-P305+P351+P338-

P332+P313-P403+P233

**o-Cresol red > RPE - For analysis****RPE**Description ..... Red brown powder    Sensitivity(pH 7.2-8.8) ..... Conform    Colour change.....yellow red  
Identification ..... Positive    Loss on drying (110°C)..... ≤ 3.0 %

Code	Size	Packaging	Notes
476778	5 g	Glass bottle	

**Clark indicator series****o-Cresol Red solution 0.2% in ethanol**• Rosso o-cresolo soluzione 0.2% in alcole etilico • Rouge de o-crésol solution 0.2% dans l'éthanol  
• Rojo de o-cresol solución 0.2% en alcohol etilico • O-Kresol-rote Lösung 0.2% in Ethanol

Synonym:

*o-Cresolsulfonphthalein* $C_{21}H_{18}O_5S$ 

Molecular Weight: 382,44

CAS: 1733-12-6

**Classification transport**

ONU: 1170

Transport Hazard class: 3

Packing group III

**Warning**

H226-H319

P210-P241-P280-P303+P361+P353-

P305+P351+P338-P337+P313

**o-Cresol Red solution 0.2% in ethanol > RPE - For analysis****RPE**

Description ..... Red liquid    Identification ..... Positive    Sensitivity(pH 7.2-8.8) ..... Conform    Colour change..... Yellow-red violet

Code	Size	Packaging	Notes
E476805	250 ml	Bottle	

**Indicator series Clark. Indicator acid-base****Cresol red R solution in Sodium hydroxide 0.1N/ Ethanol 96% / Water**• Soluzione Rosso cresolo/Sodio idrossido 0.1N / Etanolo 96%/ Acqua • Rouge de crésol solution dans l'hydroxyde de sodium 0.1N / éthanol 96% / eau  
• Rojo de o-cresol solución en sodio hidróxido 0.1N / alcohol etilico 96%/agua • Kresol-rote Lösung Natronlauge 0.1N/ ethanol 96% / wasser**Classification transport**

ONU: 1170

Transport Hazard class: 3

Packing group III

**Warning**

H226

P210-P241-P280-P303+P361+P353-P403+P235-

P501a

**Cresol red R solution in Sodium hydroxide 0.1N/ Ethanol 96% / Water > RS - For analysis according to Ph.****RS**

Eur. Chap. 4.1.1

Code	Size	Packaging	Notes
611022801	100 ml	Bottle	Ref Ph.Eur 1022801

o-Cresolsulfonphthalein ► o-Cresol red

	<b>Crystal violet</b> • Violetto cristalli • Violet cristallisé • Violeta cristal • Kristallviolett	Synonym: • Crystal violet solution • Basic violet 3
	$C_{25}H_{30}ClN_3$ Molecular Weight: 407,99 CAS: 548-62-9 EEC-N: 208-953-6	 <b>Danger</b> H302-H318-H351-H410 P264-P280-P301+P312a-P305+P351+P338-P310a-P308+P313

**Crystal violet > RPE - For analysis - C.I. 42555****RPE**

Description ..... Dark green powder      Suitability for anhydrous titration ... Conform      Alcohol-insolub. matter ..... ≤0.5 %      Colour change..... yellow blue  
 Identification ..... Positive      Loss on drying ..... ≤9 %      Residue on ignition ..... ≤2.5 %      pH range ..... 0.1 - 2.0

Code	Size	Packaging	Notes
491502	25 g	Glass bottle	

**Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base**

	<b>Crystal violet oxalate for Gram-Hucker Kit</b> • Violetto cristalli ossalato soluzione per kit Gram-Hucker • Violet cristallisé oxalate pour kit de Gram-Hucker • Violeta cristal oxalato solución para kit Gram-Hucker • Kristallviolett oxalat für Gram-Hucker Kit
	 <b>Warning</b> H319-H351-H373-H412 P260-P264-P280-P305+P351+P338-P308+P313-P337+P313

**Crystal violet oxalate for Gram-Hucker Kit > RS - For bacteriology****RS**

Description ..... Violet clear liquid      Identification ..... Positive

Code	Size	Packaging	Notes
491561	250 ml	Bottle	In Vitro Diagnostic Medical Device

	<b>Crystal violet solution 0.5% in anhydrous acetic acid</b> • Violetto cristalli soluzione 0.5% in acido acetico anidro • Violet cristallisé solution 0.5% dans l'acide acétique anhydre • Violeta cristal solución 0.5% en acido acético anhidro • Kristallviolettlösung 0.5% in wasserfreier Essigsäure	Synonym: • Crystal violet solution • Basic violet 3
	$C_{25}H_{30}ClN_3$ Molecular Weight: 407,99 CAS: 548-62-9	<b>Classification transport</b> ONU: 2920 Transport Hazard class: 8 Packing group II



**Crystal violet solution 0.5% in anhydrous acetic acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611022901	100 ml	Glass bottle	Ref Ph.Eur 1022901

**Crystal violet solution 0.5% in anhydrous acetic acid > RPE - For analysis****RPE**

Description ..... Violet clear liquid      Identification ..... Positive

Code	Size	Packaging	Notes
E491551	500 ml	Bottle	

	<b>Cupri-citric solution</b> • Cupri-citrico soluzione • Solution cupri-citrique • Cobre-citrico solución • Cupri-Zitronensäure-Lösung
	 H411 P273-P391-P501a

**Cupri-citric solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611023100	1 l	Plastic bottle	Ref Ph.Eur 1023100

**Cupriethylenediamine solution**

• Cuprietilendiamina soluzione • Cupriéthylènediamine solution • Cobre etilendiamina solución  
• Cupriethylendiamin-Lösung

Synonym:

• Bis(ethylenediamine)copper(II) hydroxide solution  
• Copper(II)-ethylenediamine complex

$\text{Cu}(\text{NH}_2\text{CH}_2\text{CH}_2\text{NH}_2)_2(\text{OH})_2$   
Molecular Weight: 217,76  
CAS: 14552-35-3

**Classification transport**

ONU: 1761  
Transport Hazard class: 8  
Packing group II

**Danger**

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Cupriethylenediamine solution > RPE - For analysis****RPE**

Description ..... Blue liquid    Assay (ex Cu) ..... 0.98 ÷ 1.02 M/l    Assay (cupriethylenediamine) ..... 0.98 ÷ 1.02 M/l  
Identification ..... Positive    Assay(Ethylenediamine) ..... 1.96 ÷ 2.04 M/l

Code	Size	Packaging	Notes
E441071	1 l	Glass bottle	

**Cupriethylenediamine hydroxide 1 mol/l**

• Cuprietilendiamina idrossido 1 mol/l • Cuivre (II) éthylènediamine hydroxyde 1 mol/l • Cobre (II) dietilendiaminico hidroxido 1 mol/l  
• Kupfer (II) ethylenediaminhydroxid 1 mol/l

**Classification transport**

ONU: 1761  
Transport Hazard class: 8  
Packing group III

**Danger**

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Cupriethylenediamine hydroxide 1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613008700	1 l	Glass bottle	Ref Ph.Eur 3008700

**Cupri-tartaric solution**

• Cupri-tartarico soluzione • Solution cupri-tartrique • Cobre-tartárico solución • Cupri-Weinsäure-Lösung

**Classification transport**

ONU: 1719  
Transport Hazard class: 8  
Packing group II

**Danger**

H314-H411  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Cupri-tartaric solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611023300	2 x 500 ml	Plastic bottle	Ref Ph.Eur 1023300

**Cyanide standard solution**

• Cianuri standard soluzione • Cyanure solution standard • Cianuro, solución patrón • Cyanid-Standardlösung

**Classification transport**

ONU: 1760  
Transport Hazard class: 8  
Packing group III

**Warning**

H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

**Cyanide standard solution > RS - Standard solution for ion chromatography****RS**

Code	Size	Packaging	Notes
503358	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water and nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**





## Cyclohexane

• Cicloesano • Cyclohexane • Ciclohexano • Cyclohexan

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>2</sub>  
Molecular Weight: 84,16  
CAS: 110-82-7  
EEC-N: 203-806-2

**Classification transport**  
ONU: 1145  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H410  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### Cyclohexane > RS - For HPLC - Isocratic Grade

RS

Description .....	Clear colourless liquid	Water (K.F.) .....	≤100 ppm	at 200 nm .....	≥4 %	At 250 nm .....	≥ 98 %
Identification .....	Positive	Residue on evaporation .....	≤2 ppm	at 210 nm .....	≥15 %	at 260 nm .....	≥98.5 %
Density at 20° C .....	0.776 ÷ 0.782	Acidity or alkalinity .....	≤0.0002 meq/g	at 220 nm .....	≥50 %	Aromatic compounds .....	≤ 5 ppm
Refractive index at 20°C .....	1.4229 ÷ 1.4299	Assay (GLC) .....	≥99.9 %	at 230 nm .....	≥80 %		
Boiling point .....	80.2 ÷ 81.2 ° C	U.V. Transmittance		at 240 nm .....	≥92 %		

Code	Size	Packaging	Notes
412431000	1 l	Glass bottle	
412432000	2.5 l	Glass bottle	

### Cyclohexane > RS - PESTIPUR - For pesticide analysis

RS

Description .....	Clear colourless liquid	Water .....	≤ 100 ppm	GC-NPD (Ethylparation) .....	≤ 3 ng/l
Identification .....	Positive	Not volatile residue .....	≤ 2 ppm	Assay (GLC) .....	≥ 99.8 %
Colour .....	≤ 10 hazen	GC-ECD (Lindano) .....	≤ 3 ng/l	Refractive index at 20°C .....	1.424 ÷ 1.428

Code	Size	Packaging	Notes
436931	1 l	Glass bottle	
436932	2.5 l	Glass bottle	

### Cyclohexane > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.

RS

Description .....	Clear colourless liquid	Melting point .....	5.5 ÷ 7.5 ° C	U.V. Transmittance		UV Absorbance at 235 nm .....	≤ 0.16 AU
Colour (APHA) .....	≤10	Acidity or alkalinity .....	≤0.0002 meq/g	at 210 nm .....	≥15 %	UV Absorbance at 240 nm .....	≤ 0.05 AU
Identification .....	Positive	Water (K.F.) .....	≤100 ppm	at 220 nm .....	≥45 %	UV Absorbance at 250 nm .....	≤ 0.01 AU
Density at 20° C .....	0.776 ÷ 0.782	Residue on evaporation .....	≤5 ppm	at 230 nm .....	≥75 %		
Refractive index at 20°C .....	1.4229 ÷ 1.4299	Aromatic compounds .....	≤5 ppm	at 250 nm .....	≥98 %		
Boiling point .....	80.2 ÷ 81.2 ° C	Assay (GLC) .....	≥99.9 %	UV Absorbance at 220 nm .....	≤ 0.35 AU		

Code	Size	Packaging	Notes
436967	1 l	Glass bottle	
436963	2.5 l	Glass bottle	

### Cyclohexane > RS - Anhydrous - For analysis

RS

Refractive index at 20°C .....	1.424 - 1.428	Colour .....	≤ 10 Hazen	Methylcyclohexane .....	≤ 1000 mg/Kg	Density d <sub>20</sub> /4 .....	0.775 - 0.782
Water content (K.F.) .....	≤ 50 mg/Kg	Aromatic compounds .....	≤ 150 mg/Kg	Clear liquid appearance .....	Conform	Total sulphur (S) .....	≤ 1 ppm
Non volatile residue .....	≤ 10 mg/Kg	Assay (GC) .....	≥ 99.8 %	Identification (IR) .....	Conform		

Code	Size	Packaging	Notes
P0251010	200 ml	Bottle with septum	
P0251016	1 l	Glass bottle	

**Cyclohexane > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	Clear liquid	Alcohol miscibility.....	Complete	Melting point.....	5.5 ÷ 7.5 ° C	Total sulphur.....	≤1 ppm
Colour (APHA) .....	≤10	Diethyl ether miscib.....	Complete	Water (K.F.) .....	≤100 ppm	Assay (GLC) .....	≥99.8 %
Identification (I.R.).....	Conform	Density at 20° C .....	0.776 ÷ 0.782	Residue on evaporation .....	≤10 ppm	Aromatic compounds.....	≤ 150 ppm
Water solubility.....	Conform	Refractive index at 20°C. 1.4229 ÷ 1.4299		Acidity (acetic acid).....	≤10 ppm	Methylcyclohexane.....	≤ 0.1 %
Ready carbonizable substances.....	Conform	Boiling point.....	80 ÷ 82 ° C	Subst. reducing KMnO4.....	≤20 ppm(5m)		

Code	Size	Packaging	Notes
436903	1 l	Glass bottle	
436905	2.5 l	Glass bottle	
436906	5 l	Plastic tank	
436901	10 l	Metal tank	
436902	21 kg	Metal drum	
436908	150 kg	Metal drum	

**Cyclohexane > RE - Pure****RE**

Description .....	Clear liquid	Density at 20° C .....	0.774 ÷ 0.784	Boiling point.....	80 ÷ 82 ° C	Residue on evaporation .....	≤50 ppm
Identification .....	Positive	Refractive index at 20°C. 1.4214 ÷ 1.4314		Water (K.F.) .....	≤150 ppm	Assay (GLC) .....	≥ 99.8 %

Code	Size	Packaging	Notes
333752	1 l	Glass bottle	
333751	2.5 l	Glass bottle	
528215	5 l	Plastic tank	
508235	10 l	Plastic tank	
333753	21 kg	Metal drum	
528216	25 l	Metal drum	
528217	200 l	Metal drum	

**Cyclohexane-d12**

• Cicloesano-d12 • Cyclohexane-d12 • Ciclohexano-d12 • Cyclohexan-d12

C<sub>6</sub>D<sub>12</sub>

Molecular Weight: 96,07

CAS: 1735-17-7

EEC-N: 217-077-3

**Danger**

H225-H315-H336-H304-H410

P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

**Cyclohexane-d12 > RS - For NMR - min 99.5%****RS**

Code	Size	Packaging	Notes
P5151A	2 x 0.5 ml	Glass ampoule	

**For specifications, contact our customer service for a certificate of analysis****Cyclohexanol**

• Cicloesanol • Cyclohexanol • Ciclohexanol • Cyclohexanol

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CHOH

Molecular Weight: 100

CAS: 108-93-0

EEC-N: 203-630-6

**Warning**

H302-H332-H315-H335

P261-P271-P304+P340-P332+P313-P362+P364-P403+P233

**Cyclohexanol > RE - Pure****RE**

Description .....	Clear colourless liquid	Identification .....	Positive	Residue on evaporation .....	≤0.1 %	Assay (GLC) .....	≥98 %
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Code	Size	Packaging	Notes
333801	1 l	Glass bottle	

**Cyclohexanol > RE - Pure - For synthesis****RE**

Refractive index at 25°C.. 1.4620 - 1.4660    Colour ..... ≤ 15 Hazen    Assay (GC) ..... ≥ 98.5 %    Cyclohexanone..... ≤ 6000 mg/Kg

Code	Size	Packaging	Notes
P0260248	25 l	Metal drum	
P0260268	200 l	Metal drum	

**Cyclohexanone**

• Cicloesanone • Cyclohexanone • Ciclohexanona • Cyclohexanon

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CO  
Molecular Weight: 98,15  
CAS: 108-94-1  
EEC-N: 203-631-1

**Classification transport**  
ONU: 1915  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H332  
P210-P241-P261-P280-P303+P361+P353-  
P304+P340

**Cyclohexanone > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Refractive index at 20°C. 1.4477 ÷ 1.4537    Residue on evaporation ..... ≤500 ppm    Heavy metals (Pb)..... ≤2 ppm  
Identification ..... Positive    Boiling point..... 152 ÷ 157 °C    Aldehydes(Formaldehyde) ..... ≤ 0.1 %    Fe ..... ≤10 ppm  
Density at 20° C ..... 0.941 ÷ 0.951    Water (K.F)..... ≤0.1 %    Cyclohexanol..... ≤ 0.1 %    Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
437053	1 l	Glass bottle	
437052	2.5 l	Glass bottle	
437055	25 kg	Metal drum	

**Cyclohexanone > RE - Pure****RE**

Description ..... Yellow clear liquid    Refractive index at 20°C. 1.4457 ÷ 1.4557    Acidity(CyclohexilcarAc) ..... ≤0.2 %    Assay (GLC) ..... ≥99 %  
Identification ..... Positive    Boiling point..... 152 ÷ 157 °C    Cyclohexanol..... ≤ 0.1 %  
Density at 20° C ..... 0.941 ÷ 0.951    Water (K.F)..... ≤0.1 %    Residue on evaporation ..... ≤500 ppm

Code	Size	Packaging	Notes
333901	1 l	Glass bottle	
333905	5 l	Aluminium can	
333902	26 kg	Metal drum	
528332	200 l	Metal drum	

**Cyclohexylamine**

• Cicloesilamina • Cyclohexylamine • Ciclohexilamina • Cyclohexylamin

Synonym:  
*Aminocyclohexane*

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CHNH<sub>2</sub>  
Molecular Weight: 99,18  
CAS: 108-91-8  
EEC-N: 203-629-0

**Classification transport**  
ONU: 2357  
Transport Hazard class: 8  
Packing group II



**Danger**  
H226-H302-H312-H314-H361f  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P362+P364

**Cyclohexylamine > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 0.864 ÷ 0.870    Boiling point..... 134.0 ÷ 135.0 ° C    Assay (alkalimetric)..... ≥99 %  
Identification ..... Positive    Refractive index at 20°C. 1.4572 ÷ 1.4612    Water (K.F) ..... ≤ 0.3 %

Code	Size	Packaging	Notes
437104	1 l	Glass bottle	

**Cyclopentyl methyl ether**

• Ciclopentil-metil-etero • Cyclopentylméthyléter • Ciclopentil metil eter • Cyclopentylmethyl Ether

Synonym:  
CPMEC<sub>6</sub>H<sub>12</sub>O

Molecular Weight: 100,16

CAS: 5614-37-9

**Classification transport**

ONU: 3271

Transport Hazard class: 3

Packing group II

**Danger**

H225-H302-H315-H319

P210-P241-P280-P303+P361+P353-

P305+P351+P338-P332+P313

**Cyclopentyl methyl ether > RE - Pure****RE**

Refractive index at 20°C..... 1.4199 - 1.4219

Colour ..... ≤ 10 Hazen

Peroxides..... ≤ 50 meq/Kg

Water content (K.F.)..... ≤ 100 mg/Kg

Assay (GC)..... ≥ 99.9 %

Code	Size	Packaging	Notes
P8010216	1 l	Glass bottle	
P8010229	5 l	Plastic tank	
P8010248	25 l	Metal drum	
P8010268	200 l	Metal drum	

**L-Cysteine**

• L-Cisteina • L-Cystéine • L-Cisteína • L-Cystein

Synonym:  
(R)-2-Amino-3-mercaptopropionic acidHSCH<sub>2</sub>CH(NH<sub>2</sub>)COOH

Molecular Weight: 121,16

CAS: 52-90-4

EEC-N: 200-158-2

**Warning**

H302

P264-P270-P301+P312a-P330-P501a

**L-Cysteine > RPE - For analysis****RPE**

Description ..... White powder

Loss on drying ..... ≤ 0.5 %

Residue on ignition ..... ≤ 0.1 %

Identification ..... Positive

Chloride ..... ≤ 500 ppm

Sulphate ..... ≤ 300 ppm

Specific optical rotation ..... +8 ÷ +9.5 °

Heavy metals (Pb) ..... ≤ 10 ppm

Assay with HClO<sub>4</sub> ..... ≥ 98.0 % (s.s)

Code	Size	Packaging	Notes
437308	5 g	Glass bottle	
437309	100 g	Glass bottle	

**L-Cystine**

• L-Cistina • L-Cystine • L-Cistina • L-Cystin

Synonym:  
(R,R)-3,3'-Dithiobis(2-aminopropionic acid)C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>

Molecular Weight: 240,3

CAS: 56-89-3

EEC-N: 200-296-3

**Danger**

H301-H315-H319-H335

P261-P271-P301+P310a-P304+P340-

P305+P351+P338-P403+P233

**L-Cystine > RPE - For analysis****RPE**

Description ..... White crystalline powder

Potere rotat. spec. (C=2; HCl 1M)... -209 ÷

Chloride ..... ≤ 200 ppm

Residue on ignition ..... ≤ 0.1 %

Identification ..... Positive

-224 ° (s.s.)

Sulphate ..... ≤ 300 ppm

Fe ..... ≤ 10 ppm

Loss on drying ..... ≤ 0.5 %

Ammonium ..... ≤ 200 ppm

Heavy metals (Pb) ..... ≤ 10 ppm

Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
437351	10 g	Glass bottle	
437355	100 g	Glass bottle	

**Decalcifying agent**

• Decalcificante • Décalcifiant • Descalcificante • Entkalkung

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Warning**H290  
P234-P390-P406**Decalcifying agent > RS - For histology****RS**

Description ..... Clear colourless liquid    Identification ..... Positive    Titolo EDTA Na2 (mom. preparaz.) ≥ 0.26 %    Titolo HCl (mom. preparaz.) ..≥ 2.21 % (p/p)

Code	Size	Packaging	Notes
441221	1 l	Plastic bottle	In Vitro Diagnostic Medical Device

**Decane**

• Decano • Décane • Decano • Decan

 $\text{CH}_3(\text{CH}_2)_8\text{CH}_3$   
Molecular Weight: 142,28  
CAS: 124-18-5  
EEC-N: 204-686-4**Classification transport**ONU: 2247  
Transport Hazard class: 3  
Packing group III**Danger**H226-H304  
P210-P241-P280-P301+P310a-P303+P361+P353-P403+P235**Decane > RE - Pure****RE**

Refractive index at 20°C ..... 1.408 - 1.412    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0093016	1 l	Glass bottle	

**Decanedioic acid ▶ Sebacic acid****1-Decanesulfonic acid sodium salt**• Acido 1-decanosulfonico sale sodico • Acide 1-decanesulfonique sel sodique  
• Acido 1-decanosulfónico sal sódica • 1-Decansulfonsäure-Natriumsalz

Synonym:

• Sodium 1-decanesulfonate

 $\text{CH}_3(\text{CH}_2)_9\text{SO}_3\text{Na}$   
Molecular Weight: 244,33  
CAS: 13419-61-9**Warning**H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233**1-Decanesulfonic acid sodium salt > RS - For ion pair chromatography****RS**Description ..... White to cream powder    Absorbance (0,2M)    At 230 nm ..... ≤ 0.02 AU  
Water (K.F.) ..... ≤ 1.0 %    At 210 nm ..... ≤ 0.05 AU    At 260 nm ..... ≤ 0.02 AU  
Assay ..... ≥ 99.0 %    At 220 nm ..... ≤ 0.03 AU    Solubility 5% in water ..... Clear and colourless solution

Code	Size	Packaging	Notes
405871	25 g	Glass bottle	
405872	100 g	Plastic bottle	

**Degree of coloration of liquids: primary solutions**• Soluzioni primarie per il grado di colorazione dei liquidi • Solutions primaires pour le degré de coloration des liquides  
• Soluciones primarias para el grado de coloración de líquidos • Primärlösungen für den Einfärbungsgrad von Flüssigkeiten**Degree of coloration of liquids: primary solutions > RS - For analysis according to Ph. Eur. Chap. 2.2.2****RS**

Code	Size	Packaging	Notes
612202100	100 ml	Glass bottle	Yellow primary solution
612202200	100 ml	Plastic bottle	Red primary solution
612202300	100 ml	Plastic bottle	Blue primary solution

**Degree of coloration of liquids: primary solutions > RS - For analysis according to Ph.Ch.**

RS

Code	Size	Packaging	Notes
618000001	100 ml	Plastic bottle	Red primary solution
618000002	100 ml	Plastic bottle	Yellow primary Solution
618000003	100 ml	Plastic bottle	Blue primary solution

**Degree of coloration of liquids: primary solutions > RS - For analysis according to USP**

RS

Code	Size	Packaging	Notes
612002100	100 ml	Glass bottle	Yellow primary solution
612002200	100 ml	Plastic bottle	Red primary solution
612002300	100 ml	Plastic bottle	Blue primary solution

**Degree of coloration of liquids: standard solutions**

- Soluzioni standard per il grado di colorazione dei liquidi • Solutions étalon pour le degré de coloration des liquides
- Soluciones estándar para el grado de coloración de líquidos • Standardlösungen für den Einfärbungsgrad von Flüssigkeiten

**Classification transport**

ONU: 1760  
 Transport Hazard class: 8  
 Packing group III

**Danger**

H290-H314-H334-H317-H350i-H412-HA26  
 P280-P284-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338-P362+P364-  
 P342+P311a

**Degree of coloration of liquids: standard solutions > RS - For analysis according to Ph. Eur. Chap. 2.2.2**

RS

Code	Size	Packaging	Notes
612202510	125 ml	Plastic bottle	Standard solution B (brown)
612202520	125 ml	Plastic bottle	Standard solution BY (brownish-yellow)
612202530	125 ml	Plastic bottle	Standard solution Y (yellow)
612202540	125 ml	Plastic bottle	Standard solution GY (greenish-yellow)
612202550	125 ml	Plastic bottle	Standard solution R (red)





## Density Standard

• Densità standard • Etalons de densité • Patrones de densidad • Dichtestandards

### Density Standard > RS - PREMIUM - For calibration

RS

Code	Size	Packaging	Notes
540401	100 ml	Glass bottle	0.6960g/ml at 15°C
540402	100 ml	Glass bottle	0.8715g/ml at 15°C
540403	100 ml	Glass bottle	1.0040g/ml at 15°C
540404	100 ml	Glass bottle	1.2498g/ml at 15°C
540405	100 ml	Glass bottle	0.6919g/ml at 20°C
540406	100 ml	Glass bottle	0.7033g/ml at 20°C
540407	100 ml	Glass bottle	0.7488g/ml at 20°C
540408	100 ml	Glass bottle	0.8668g/ml at 20°C
540409	100 ml	Glass bottle	1.0005g/ml at 20°C
540410	100 ml	Glass bottle	1.0301g/ml at 20°C
540411	100 ml	Glass bottle	1.0792g/ml at 20°C
540412	100 ml	Glass bottle	1.1651g/ml at 20°C
540413	100 ml	Glass bottle	1.2486g/ml at 20°C
540414	100 ml	Glass bottle	1.3304g/ml at 20°C
540415	100 ml	Glass bottle	1.5799g/ml at 20°C
540416	100 ml	Glass bottle	1.7470g/ml at 20°C
540417	100 ml	Glass bottle	1.9141g/ml at 20°C
540418	100 ml	Glass bottle	0.8207g/ml at 40°C
540420	100 ml	Glass bottle	0.9323g/ml at 40°C
540421	100 ml	Glass bottle	1.2408g/ml at 40°C
540422	100 ml	Glass bottle	0.9990g/ml at 60°C

**In accordance with ASTM D1480-12 for testing of Density or Relative Density (specific and API gravity) by Bingham Pycnometer.  
For density measurement by pycnometric techniques, vibrational techniques or hydrometer based techniques**

## Density Standard &gt; RS - QUALITY - For calibration

RS

Code	Size	Packaging	Notes
540451	100 ml	Glass bottle	0.7524g/ml at 15°C
540452	100 ml	Glass bottle	0.7721g/ml at 15°C
540453	100 ml	Glass bottle	0.7933g/ml at 15°C
540454	100 ml	Glass bottle	0.8168g/ml at 15°C
540455	100 ml	Glass bottle	0.8428g/ml at 15°C
540456	100 ml	Glass bottle	0.8715g/ml at 15°C
540457	100 ml	Glass bottle	0.6919g/ml at 20°C
540458	100 ml	Glass bottle	0.7033g/ml at 20°C
540459	100 ml	Glass bottle	0.7488g/ml at 20°C
540460	100 ml	Glass bottle	0.7893g/ml at 20°C
540461	100 ml	Glass bottle	0.8126g/ml at 20°C
540462	100 ml	Glass bottle	0.8384g/ml at 20°C
540463	100 ml	Glass bottle	0.8668g/ml at 20°C
540464	100 ml	Glass bottle	0.9098g/ml at 20°C
540465	100 ml	Glass bottle	0.9476g/ml at 20°C
540566	100 ml	Glass bottle	1.0005g/ml at 20°C
540567	100 ml	Glass bottle	1.0301g/ml at 20°C
540568	100 ml	Glass bottle	0.8622g/ml at 25°C
540569	100 ml	Glass bottle	0.9438g/ml at 25°C
540470	100 ml	Glass bottle	0.9969g/ml at 25°C
540471	100 ml	Glass bottle	0.9245g/ml at 50°C
540472	100 ml	Glass bottle	0.9695g/ml at 60°C
540473	100 ml	Glass bottle	0.9815g/ml at 80°C

In accordance with ASTM D4052 for testing of Density, Relative Density and API Gravity of Liquids by Digital Density Meter  
For density measurement by vibrational techniques or hydrometer based techniques



## Deuterium oxide-d2

• Deuterio ossido-d2 • Deutérium oxyde-d2 • Deuterio oxido-d2 • Deuteriumoxid-d

Synonym:  
Heavy water

D<sub>2</sub>O  
Molecular Weight: 20,03  
CAS: 7789-20-0  
EEC-N: 232-148-9

## Deuterium oxide-d2 &gt; RS - For NMR - min 99.98%

RS

Code	Size	Packaging	Notes
P5179	10 x 0.75 ml	Glass ampoule	
P5175	25 ml	Glass bottle	

For specifications, contact our customer service for a certificate of analysis

## Deuterium oxide-d2 &gt; RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5169	10 x 0.75 ml	Glass ampoule	
P5164	5 x 10 ml	Glass bottle	
P5165	25 ml	Glass bottle	
P5165S	25 ml	Bottle with septum	
P5166	100 ml	Glass bottle	
P5168	1 l	Glass bottle	

For specifications, contact our customer service for a certificate of analysis

**Deuterium oxide-d2 + 0.01% DMSO**  
 • Deuterio ossido-d2 + 0.01% DMSO • Deutérium oxyde-d2 + 0.01% DMSO  
 • Deuterio oxido-d2 + 0.01% DMSO • Deuteriumoxid-d + 0.01% DMSO

Synonym:  
Heavy water

D<sub>2</sub>O  
 Molecular Weight: 20,03  
 CAS: 7789-20-0  
 EEC-N: 232-148-9

**Deuterium oxide-d2 + 0.01% DMSO > RS - For NMR - min 99.98%**

RS

Code	Size	Packaging	Notes
P5170D	10 x 0.6 ml	Glass ampoule	

*For specifications, contact our customer service for a certificate of analysis*

**Deuterium oxide-d2 + 0.5% TSP d4**  
 • Deuterio ossido-d2 + 0.5% TSP d4 • Deutérium oxyde-d2 + 0.5% TSP d4  
 • Deuterio oxido-d2 + 0.5% TSP d4 • Deuteriumoxid-d + 0.5% TSP d4

Synonym:  
Heavy water

D<sub>2</sub>O  
 Molecular Weight: 20,03  
 CAS: 7789-20-0  
 EEC-N: 232-148-9

**Deuterium oxide-d2 + 0.5% TSP d4 > RS - For NMR - min 99,9%**

RS

Code	Size	Packaging	Notes
P5161T	10 x 0.6 ml	Glass ampoule	

*For specifications, contact our customer service for a certificate of analysis*

**Deuterium oxide-d2 + 0.03% TSP d4**  
 • Deuterio ossido-d2 + 0.03% TSP d4 • Deutérium oxyde-d2 + 0.03% TSP d4  
 • Deuterio oxido-d2 + 0.03% TSP d4 • Deuteriumoxid-d + 0.03% TSP d4

Synonym:  
Heavy water

D<sub>2</sub>O  
 Molecular Weight: 20,03  
 CAS: 7789-20-0  
 EEC-N: 232-148-9

**Deuterium oxide-d2 + 0.03% TSP d4 > RS - For NMR - min 99.8%**

RS

Code	Size	Packaging	Notes
P5160T	10 x 0.6 ml	Glass ampoule	

*For specifications, contact our customer service for a certificate of analysis*

**Devarda's alloy**  
 • Lega Devarda • Alliage de Devarda • Aleación según Devarda • Devarda-Legierung

CAS: 8049-11-4

**Classification transport**  
 ONU: 3132  
 Transport Hazard class: 4.3  
 Packing group II



**Danger**  
 H228-H261-H411  
 P210-P223-P231a+P232-P241-P280-P402+P404

**Devarda's alloy > RPE - For analysis**

RPE

Description ..... Greyish metallic powder      Concentration in element      Al ..... ~ 45 %      Zn ..... ~ 5 %  
 Identification ..... Positive      N ..... < 10 ppm      Cu ..... ~ 50 %

Code	Size	Packaging	Notes
457625	250 g	Glass bottle	
457627	1 kg	Plastic bottle	

**Dextrose ▶ D(+)-Glucose anhydrous**

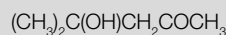
## Dextrose monohydrate ▶ D(+)-Glucose monohydrate

**Diacetone alcohol**

• Diacetonalcòle • Diacétone alcool • Diacetonalcool • Diacetonalkohol

Synonym:

4-Hydroxy-4-methyl-2-pentanone



Molecular Weight: 116

CAS: 123-42-2

EEC-N: 204-626-7

**Warning**

H319-H361fd-H335

P261-P271-P280-P304+P340-P305+P351+P338-P403+P233

**Diacetone alcohol > RPE - For analysis****RPE**

Description	Yellow clear liquid	Density at 25° C	0.927 ÷ 0.935	Acidity (acetic acid)	≤ 100 ppm	Assay (GLC)	≥ 99 %
Identification	Positive	Refractive index at 20°C	1.4212 ÷ 1.4272	Alcalinity (NH <sub>3</sub> )	≤ 10 ppm		
Water miscibility	Conform	Water (K.F.)	≤ 0.1 %	Heavy metals (Pb)	≤ 2 ppm		
Alcohol miscibility	Conform	Residue on evaporation	≤ 50 ppm	Fe	≤ 1 ppm		

Code	Size	Packaging	Notes
441771	250 ml	Glass bottle	
441774	1 l	Glass bottle	

**Diacetone alcohol > RE - Pure****RE**

Description	Yellow clear liquid	Density at 25° C	0.926 ÷ 0.936	Water (K.F.)	≤ 0.3 %	Acidity (acetic acid)	≤ 100 ppm
Identification	Positive	Refractive index at 20°C	1.4192 ÷ 1.4292	Residue on evaporation	≤ 100 ppm	Assay (GLC)	≥ 98 %

Code	Size	Packaging	Notes
337001	1 l	Glass bottle	
337002	18 kg	Metal drum	

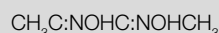
**Diacetyldioxime**

• Diacetildiossima • Diacétaldioxime • Diacetildioxima • Diacetyldioxim

Synonym:

• Dimethylglyoxime

• 2,3-Butanedione dioxime



Molecular Weight: 116,12

CAS: 95-45-4

EEC-N: 202-420-1

**Warning**

H302

P264-P270-P301+P312a-P330-P501a

**Diacetyldioxime > RPE - For analysis - ACS****RPE**

Description	White crystalline powder	Suitability for Ni det.	Conform	Alcohol-insolub. matter	≤ 0.05 %
Identification	Positive	Melting point	239 ÷ 241 °C		

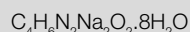
Code	Size	Packaging	Notes
441553	50 g	Glass bottle	

**Reagent for the spectrophotometric determination of: Co (III), Fe (II), Ni (II), Pd (II)****Diacetyldioxime sodium salt**

• Diacetildiossima sale sodico • Diacétaldioxime sel sodique • Diacetildioxima sal sódica • Diacetyldioximnatriumsalz

Synonym:

Dimethylglyoxime disodium salt octahydrate



Molecular Weight: 304,09

CAS: 75006-64-3

EEC-N: 262-523-2

**Warning**

H302

P264-P270-P301+P312a-P330-P501a

**Diacetyldioxime sodium salt > RPE - For analysis****RPE**

Description	White powder	Suitability for Ni det.	Conform	Solubility (50mg/ml,50%EtOH)	Conform
Identification	Positive	Water (K.F.)	43 - 48 %	Assay (gravimetric)	≥ 98.5 %

Code	Size	Packaging	Notes
441623	50 g	Glass bottle	
441625	250 g	Glass bottle	

**For precipitation of metals**



## Diacetyldioxime solution 1% in ethanol

- Diacetildiosima soluzione 1% in alcole etilico • Diacétyldioxime solution 1% dans l'éthanol
- Diacetildioxima solución 1% en alcohol etilico • Diacetyldioximlösung 1% in Ethanol

Synonym:

- Dimethylglyoxime
- 2,3-Butanedione dioxime

CH<sub>3</sub>C:NOHC:NOHCH<sub>3</sub>  
Molecular Weight: 116,12  
CAS: 95-45-4

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

### Diacetyldioxime solution 1% in ethanol > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Density at 15° C ..... 0.813 ÷ 0.819

Code	Size	Packaging	Notes
E441581	500 ml	Bottle	

**Indicator for determining metals**

1,2-Diaminoethane ▶ Ethylenediamine

Diatomaceous earth ▶ Kieselguhr composed



## Dibenzoylmethane

- Dibenzoilmetano • Dibenzoylméthane • Dibenzoilmetano • Dibenzoylmethan

(C<sub>6</sub>H<sub>5</sub>CO)<sub>2</sub>CH<sub>2</sub>  
Molecular Weight: 224,26  
CAS: 120-46-7  
EEC-N: 204-398-9

### Dibenzoylmethane > RPE - For analysis

**RPE**

Description ..... Yellowish crystalline powder Melting point ..... 77.0 ÷ 79.0 ° C Residue on ignition ..... ≤500 ppm  
Identification ..... Positive Water (K.F.) ..... ≤0.1 % Assay (GLC) ..... ≥ 97 %

Code	Size	Packaging	Notes
441873	25 g	Glass bottle	



## Dibenzoyl peroxide

- Dibenzoil perossido • Benzoyle peroxyde • Dibenzoil peróxido • Dibenzoylperoxid

Synonym:

Benzoyl peroxide

(C<sub>6</sub>H<sub>5</sub>CO)<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 242,22  
CAS: 94-36-0  
EEC-N: 202-327-6

**Classification transport**  
ONU: 3104  
Transport Hazard class: 5.2  
Packing group -



**Danger**  
H241-H319-H317-H410  
P210-P261-P280-P305+P351+P338-  
P337+P313-P410

### Dibenzoyl peroxide > RE - Pure

**RE**

Description ..... White granular powder Identification ..... Positive Assay (oxidimetric) ..... ≥ 62.4 %

Code	Size	Packaging	Notes
427345	250 g	Plastic bottle	
427347	1 kg	Plastic bottle	



## Di-n-butylphthalate

• n-Dibutilftalato • n-Dibutyle phtalate • n-Dibutiloftalato • Dibutylphthalat

Synonym:

*Phthalic acid dibutyl ester*

$C_6H_4[COOC_4H_9]_2$   
Molecular Weight: 278,35  
CAS: 84-74-2  
EEC-N: 201-557-4



### Danger

H360Df-H400-HA26  
P273-P280-P308+P313-P391-P405-P501a

### Di-n-butylphthalate > ERBAPharm - According to pharmacopoeia: Ph.Eur.

**ERBAPharm**

Description . Clear colourless to very slightly yellow liq.      Acidity ..... Conform Ph.Eur.      Sulphated ash ..... ≤ 0.1 %      Refractive index at 20°C ..... 1.490 ÷ 1.495  
Appearance of solution ..... Conform Ph.Eur.      Related substances (GLC) ..... ≤ 1.0 %      Assay (alkalimetric) ..... 99.0 ÷ 101.0 %      Origin (BSE/TSE) ..... Synthesis  
Identification ..... Positive      Water (K.F.) ..... ≤ 0.2 %      Density at 20°C ..... 1.043 ÷ 1.048      Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
325701	26 kg	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Dicalite 4158

• Dicalite 4158 • Dicalite 4158 • Dicalite 4158 • Dicalite 4158

CAS: 93763-70-3

### Dicalite 4158 > RE - For filtration

**RE**

Permeability (PRFv) ..... 90 - 165      Wet cake density ..... ≤ 13.6 lbs/ft<sup>3</sup>      Float ..... ≤ 30 ml/20g

Code	Size	Packaging	Notes
P8880014	500 g	Plastic bottle	
P8880017	1 kg	Plastic bottle	
P8880027	5 kg	Plastic bucket	

**Substitute to CELITE 545**



## Dichloroacetic acid

• Acido dicloroacetico • Acide dichloroacétique • Acido dicloroacético • Dichloressigsäure

$CHCl_2COOH$   
Molecular Weight: 128,94  
CAS: 79-43-6  
EEC-N: 201-207-0

### Classification transport

ONU: 1764  
Transport Hazard class: 8  
Packing group II



### Danger

H311-H314-H400  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P361+P364

### Dichloroacetic acid > RPE - For analysis

**RPE**

Description ..... Clear liquid      Colour ..... ≤ 50 APHA      Refractive index at 20°C ..... 1.4648 ÷ 1.4668  
Identification ..... Positive      Density at 20° C ..... 1.562 ÷ 1.572      Assay (acidimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
405101	250 ml	Glass bottle	
405103	1 l	Glass bottle	

### Dichloroacetic acid > RE - Pure


**RE**

Description ..... Clear liquid      Freezing point ..... ≥ 12 °C      Assay (acidimetric) ..... ≥ 99 %  
Identification ..... Positive      Water (KF) ..... ≤ 0.3 %

Code	Size	Packaging	Notes
303151	1 l	Glass bottle	



	<b>m-Dichlorobenzene</b>	Synonym: 1,3-Dichlorobenzene
	• m-Diclorobenzolo • m-Dichlorobenzène • m-Diclorobenceno • m-Dichlorbenzol	

$C_6H_4Cl_2$ Molecular Weight: 147 CAS: 541-73-1 EEC-N: 208-792-1	<b>Classification transport</b>	 <b>Warning</b> H302-H411 P264-P270-P301+P312a-P330-P391-P501a
	ONU: 2810	
	Transport Hazard class: 6.1	
	Packing group III	


### m-Dichlorobenzene > RPE - For analysis

RPE

Description ... Colourless or yellowish liquid	Density at 20° C ..... 1.283 ÷ 1.293	Boiling point ..... 171 ÷ 173 °C	Assay (GLC) ..... ≥ 99 %
Identification ..... Positive	Refractive index at 20°C. 1.5435 ÷ 1.5485	Residue on ignition ..... ≤ 100 ppm	

Code	Size	Packaging	Notes
442353	100 ml	Glass bottle	

	<b>o-Dichlorobenzene</b>	Synonym: 1,2-Dichlorobenzene
	• o-Diclorobenzolo • o-Dichlorobenzène • o-Diclorobenceno • o-Dichlorbenzol	

$C_6H_4Cl_2$ Molecular Weight: 147 CAS: 95-50-1 EEC-N: 202-425-9	<b>Classification transport</b>	 <b>Warning</b> H302-H332-H315-H319-H335-H410 P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233
	ONU: 1591	
	Transport Hazard class: 6.1	
	Packing group III	

### o-Dichlorobenzene > RPE - For analysis

RPE

Description ..... Clear liquid	Refractive index at 20°C ..... 1.5450 ÷ 1.5520	Acidity (HCl) ..... ≤500 ppm
Identification ..... Positive	Water (K.F.) ..... ≤500 ppm	Free chlorine ..... ≤1 ppm
Density at 20° C ..... 1.299 ÷ 1.311	Residue on evaporation ..... ≤50 ppm	Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
442301	500 ml	Glass bottle	

### o-Dichlorobenzene > RE - Pure

RE

Description ..... Clear liquid	Identification ..... Positive	Assay (GLC) ..... ≥98 %
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Code	Size	Packaging	Notes
337251	1 l	Glass bottle	

	<b>p-Dichlorobenzene</b>	Synonym: 1,4-Dichlorobenzene
	• p-Diclorobenzolo • p-Dichlorobenzène • p-Diclorobenceno • p-Dichlorbenzol	

$C_6H_4Cl_2$ Molecular Weight: 147 CAS: 106-46-7 EEC-N: 203-400-5	<b>Classification transport</b>	 <b>Warning</b> H319-H351-H410 P264-P280-P305+P351+P338-P308+P313-P337+P313-P501a
	ONU: 2810	
	Transport Hazard class: 6.1	
	Packing group III	

### p-Dichlorobenzene > RPE - For analysis

RPE

Description ..... White crystals	Melting point ..... 52.0 ÷ 54.0 °C	Assay (GLC) ..... ≥99 %
Identification ..... Positive	Residue on ignition ..... ≤500 ppm	

Code	Size	Packaging	Notes
442406	500 g	Plastic bottle	
442407	1 kg	Plastic bottle	

### p-Dichlorobenzene > RE - Pure

RE

Description ..... White crystals	Identification ..... Positive	Melting point ..... 52 ÷ 56 °C	Assay (GLC) ..... ≥ 96.0 %
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Code	Size	Packaging	Notes
337307	1 kg	Plastic bottle	
337303	25 kg	Plastic bucket	



## 1,2-Dichlorobenzene-d4

• 1,2-Diclorobenzene-d4 • 1,2-Dichlorobenzène-d4 • 1,2-Diclorobenceno-d4 • 1,2-Dichlorbenzol-d4

Synonym:

Tetradetero-1,2-dichlorobenzene

$C_6D_4Cl_2$   
Molecular Weight: 151,03  
CAS: 2199-69-1

**Classification transport**  
ONU: 1591  
Transport Hazard class: 6.1  
Packing group III



**Warning**  
H302-H315-H319-H335-H410  
P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233

### 1,2-Dichlorobenzene-d4 > RS - For NMR - min 99%

RS

Code	Size	Packaging	Notes
P5533A	5 ml	Glass ampoule	

For specifications, contact our customer service for a certificate of analysis



## 1,2-Dichloroethane

• 1,2-Etano dicloro • 1,2-Dichloroéthane • 1,2-Dicloroetano • 1,2-Dichlorethan

Synonym:

Ethylene dichloride

sym-Dichlorethane

$CH_2ClCH_2Cl$   
Molecular Weight: 98,97  
CAS: 107-06-2  
EEC-N: 203-458-1

**Classification transport**  
ONU: 1184  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H331-H315-H319-H350-H335-HA26  
P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P308+P313-P330-P362+P364-P403+P233

### 1,2-Dichloroethane > RS - For HPLC - Isocratic Grade

RS

Clear, colourless liq. appearance ..... Conform	Water content (K.F.) ..... ≤ 100 mg/Kg	UV transmittance at 255 nm ..... ≥ 90 %	Non volatile residue ..... ≤ 5 mg/Kg
Identification ..... Conform	UV transmittance at 240 nm ..... ≥ 20 %	UV transmittance at 260 nm ..... ≥ 98 %	
Colour ..... ≤ 10 Apha	UV transmittance at 245 nm ..... ≥ 55 %	Free acid (as HCl) ..... ≤ 5 mg/Kg	
Refractive index at 20°C ..... 1.443 - 1.447	UV transmittance at 250 nm ..... ≥ 78 %	Assay (GC) ..... ≥ 99.8 %	

Code	Size	Packaging	Notes
447191	1 l	Glass bottle	
447192	2.5 l	Glass bottle	

### 1,2-Dichloroethane > RS - SPECTROSOL - For optical spectroscopy

RS

Clear, colourless liq. appearance ..... Conform	Colour ..... ≤ 10 Hazen	UV transmittance at 240 nm ..... ≥ 90 %	Free acid (as HCl) ..... ≤ 5 mg/Kg
Refractive index at 20°C ..... 1.443 - 1.447	UV transmittance at 225 nm ..... ≥ 10 %	UV transmittance at 250 nm ..... ≥ 95 %	Assay (GC) ..... ≥ 99.8 %
Water content (K.F.) ..... ≤ 100 mg/Kg	UV transmittance at 230 nm ..... ≥ 50 %	UV transmittance at 260 nm ..... ≥ 99 %	Non volatile residue ..... ≤ 5 mg/Kg

Code	Size	Packaging	Notes
P0282716	1 l	Glass bottle	

### 1,2-Dichloroethane > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.443 - 1.447	Non volatile residue ..... ≤ 10 mg/Kg	Free acid (as HCl) ..... ≤ 5 mg/Kg
Water content (K.F.) ..... ≤ 100 mg/Kg	Colour ..... ≤ 10 Hazen	Assay (GC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
P0281010	200 ml	Bottle with septum	
P0281016	1 l	Glass bottle	
P0281021	2.5 l	Glass bottle	

### 1,2-Dichloroethane > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear liquid	Distillation range (≥ 95%) ..... 82 ÷ 84 ° C	Total phosphorus ..... ≤ 0.5 ppm	K ..... ≤ 0.2 ppm
Colour (APHA) ..... ≤ 10	Acidity ..... ≤ 0.0003 meq/g	Total silicon ..... ≤ 0.05 ppm	Mg ..... ≤ 0.1 ppm
Identification ..... Positive	Water (K.F.) ..... ≤ 200 ppm	Total sulphur ..... ≤ 0.5 ppm	Na ..... ≤ 0.5 ppm
Density at 20° C ..... 1.248 ÷ 1.264	Residue on evaporation ..... ≤ 10 ppm	Ca ..... ≤ 0.5 ppm	Pb ..... ≤ 0.02 ppm
Refractive index at 20° C ..... 1.4418 ÷ 1.4478	Free chlorine ..... ≤ 1 ppm	Cu ..... ≤ 0.05 ppm	Zn ..... ≤ 0.2 ppm
Boiling point ..... 83.0 ÷ 84.0 ° C	Subst. reducing KMnO4 ..... ≤ 10 ppm	Fe ..... ≤ 0.5 ppm	Assay (GLC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
447121000	1 l	Glass bottle	

## 1,2-Dichloroethane > RE - Pure

**RE**

Description .....	Clear liquid	Refractive index at 20°C. 1.4398 ÷ 1.4498	Water (K.F.) .....	≤300 ppm	Acidity (HCl) .....	≤ 10 ppm
Water content (K.F.) .....	≤ 300 mg/Kg	Colour .....	Assay (GC) .....	≥ 99.8 %		
Identification .....	Positive	Colour (APHA) .....	Assay (GLC) .....	≥99.8 %		
Non volatile residue .....	≤ 50 mg/Kg	Free acid (as HCl) .....	Residue on evaporation .....	≤ 50 ppm		

Code	Size	Packaging	Notes
340151	1 l	Glass bottle	
P0280228	5 l	Plastic tank	
340155	34 kg	Metal drum	
P0280268	200 l	Metal drum	



## Dichloromethane

• Diclorometano • Dichlorométhane • Diclorometano • Dichlormethan

Synonym:  
Methylene chloride

CH<sub>2</sub>Cl<sub>2</sub>  
Molecular Weight: 84,93  
CAS: 75-09-2  
EEC-N: 200-838-9

### Classification transport

ONU: 1593  
Transport Hazard class: 6.1  
Packing group III



### Warning

H315-H319-H351-H335-H336-H373  
P271-P280-P304+P340-P305+P351+P338-  
P308+P313-P403+P233

## Dichloromethane > RS - For HPLC - Isocratic grade - Stabilized with amylene

**RS**

Description .....	Clear colourless liquid	Boiling point.....	39.6 ÷ 40.1 ° C	Assay (GLC) .....	≥99.9 %	at 250 nm .....	≥96 %
Identification .....	Positive	Acidity .....	≤ 0.0001 meq/g	U.V. Transmittance		at 260 nm .....	≥99 %
Density at 20° C .....	1.322 ÷ 1.328	Water (K.F.) .....	≤100 ppm	At 235 nm .....	≥ 40 %	Amylene .....	≤ 60 ppm
Refractive index at 20°C. 1.4214 ÷ 1.4274		Residue on evaporation .....	≤2 ppm	at 240 nm .....	≥70 %	Alkalinity .....	≤ 0.0002 meq/g

Code	Size	Packaging	Notes
412621000	1 l	Glass bottle	
412622000	2.5 l	Glass bottle	

## Dichloromethane > RS - For HPLC - Isocratic grade - Stabilized with ethanol

**RS**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4214 ÷ 1.4274	Water (K.F.) .....	≤ 100 ppm	at 245 nm .....	≥ 90 %	
Identification .....	Positive	Acidity (Formic acid) .....	≤ 5 ppm	Transmittance U.V.		at 255 nm .....	≥ 96 %
Boiling point.....	39.55 ÷ 40.05 ° C	Residue on evaporation .....	≤ 5 ppm	at 235 nm .....	≥ 40 %	at 260 nm .....	≥ 99 %
Density at 20°C .....	1.322 ÷ 1.328	Ethanol .....	0.1 ÷ 0.4 %	at 240 nm .....	≥ 75 %	Assay (GLC) .....	≥ 99.9 %

Code	Size	Packaging	Notes
412662	1 l	Glass bottle	
412661	2.5 l	Glass bottle	

## Dichloromethane > RS - For preparative HPLC - Stabilized with amylene

**RS**

Description .....	Clear colourless liquid	Boiling point.....	39.6 ÷ 40.1 ° C	U.V. Transmittance		Alkalinity .....	≤ 0.0002 meq/g
Identification .....	Positive	Water (K.F.) .....	≤500 ppm	at 240 nm .....	≥50 %		
Density at 20° C .....	1.322 ÷ 1.328	Residue on evaporation .....	≤5 ppm	at 260 nm .....	≥98 %		
Refractive index at 20°C. 1.4214 ÷ 1.4274		Assay (GLC) .....	≥99.5 %	Amylene .....	20 ÷ 60 ppm		

Code	Size	Packaging	Notes
463281	2.5 l	Glass bottle	

## Dichloromethane > RS - For preparative HPLC - Stabilized with ethanol

**RS**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4214 ÷ 1.4274	Residue on evaporation .....	≤ 5 ppm	at 260 nm .....	≥ 98 %
Colour .....	≤ 10 APHA	Boiling point.....	39.3 ÷ 40.3 ° C	Assay (GLC) .....	≥ 99.5 %	
Identity (IR) .....	Positive	Alkalinity (NH <sub>3</sub> ) .....	≤ 5 ppm	Transmittance U.V.		
Density at 20°C .....	1.322 ÷ 1.328	Water (K.F.) .....	≤ 500 ppm	at 240 nm .....	≥ 50 %	

Code	Size	Packaging	Notes
463291	2.5 l	Glass bottle	

**Dichloromethane > RS - For GC-MS - Stabilized with ethanol**

RS

Appearance .....	Clear colourless liquid	Residue on evaporation .....	≤ 3 ppm	Carbon tetrachloride .....	≤ 20 ppm	Ret.range n-undecane to n-tetracontane
Refractive index at 20°C .....	1.422 - 1.426	Acidity (HCl) .....	≤ 5 ppm	Chloroform .....	≤ 40 ppm	
Water (K.F.) .....	≤ 100 ppm	Assay (GC) (without stabilizer) ...	≥ 99.95 %	GC-MS.Individual peak (n-hexadecane) .	≤ 2	
Colour .....	≤ 10 APHA	Stabilizer (Ethanol) .....	0.1 - 0.4 % (w/w)	µg/L		

Code	Size	Packaging	Notes
463332	1 l	Glass bottle	

**Dichloromethane > RS - For GC-MS - Stabilized with amylene**

RS

Appearance .....	Clear colourless liquid	Residue on evaporation .....	≤ 3 ppm	Carbon tetrachloride .....	≤ 20 ppm	Ret.range n-undecane to n-tetracontane
Refractive index at 20°C .....	1.422 - 1.426	Acidity (HCl) .....	≤ 5 ppm	Chloroform .....	≤ 50 ppm	
Water (K.F.) .....	≤ 100 ppm	Assay (GC) .....	≥ 99.95 %	GC-MS.Individual peak (n-hexadecane) .	≤ 2	
Colour .....	≤ 10 APHA	Amylene .....	30 - 60 ppm	µg/L		

Code	Size	Packaging	Notes
463342	1 l	Glass bottle	

**Dichloromethane > RS - ATRASOL - For analysis of volatile traces - Stabilized with amylene**

RS

Appearance .....	Clear colourless liquid	Chloroform .....	≤ 50 mg/Kg	GC-ECD.Individual peak (Lindane) .	≤ 2 ng/L	PAH test (according to ISO 17993) ..Passes test
Refractive index at 20°C .....	1.422 - 1.426	Non volatile residue .....	≤ 3 mg/Kg	Ret.range 1,2,4-trichlorobenzene		
Water content (K.F.) .....	≤ 100 mg/Kg	Carbon tetrachloride .....	≤ 20 mg/Kg	GC-FID.Individual peak (n-hexadecane) .	≤ 2	Test against standard (each 16 PAH) .
Colour .....	≤ 10 Hazen	Assay (GC) .....	≥ 99.95 %	µg/L		to decachlorobiphenyle
Free acid (as HCl) .....	≤ 5 mg/Kg	Stabilizer (Amylene) .....	20 - 60 mg/Kg	Ret.range n-undecane to n-tetracontane		

Code	Size	Packaging	Notes
P02932A16	1 l	Glass bottle	
P02932A21	2.5 l	Glass bottle	
P02932A82	4 l	Glass bottle	

**16 selected PAHs tested according to ISO 17993:2002, each max 0,1µg/l****Dichloromethane > RS - ATRASOL - For analysis of volatile traces - Stabilized with ethanol**

RS

Appearance .....	Clear colourless liquid	Non volatile residue .....	≤ 3 mg/Kg	Ret.range 1,2,4-trichlorobenzene	test	Test against standard (each 16 PAH) .
Refractive index at 20°C .....	1.422 - 1.426	Carbon tetrachloride .....	≤ 20 mg/Kg	to decachlorobiphenyle		≤ 0.1
Water content (K.F.) .....	≤ 100 mg/Kg	Assay (GC) (without stabilizer) ...	≥ 99.95 %	GC-FID.Individual peak (n-hexadecane) .	≤ 2	µg/l
Colour .....	≤ 10 Hazen	Stabilizer (Ethanol) .....	0.1 - 0.4 % m/m	µg/L		
Free acid (as HCl) .....	≤ 5 mg/Kg	GC ( FID ) - NC Atrasol .....	Conform	Ret.range n-undecane to n-tetracontane		
Chloroform .....	≤ 40 mg/Kg	GC-ECD.Individual peak (Lindane) .	≤ 2 ng/L	PAH test (according to ISO 17993) ..Passes		

Code	Size	Packaging	Notes
P02932E16	1 l	Glass bottle	
P02932E21	2.5 l	Glass bottle	

**16 selected PAHs tested according to ISO 17993:2002, each max 0,1µg/l****Dichloromethane > RS - PESTIPUR - For pesticide analysis - Stabilized with amylene**

RS

Description .....	Clear liquid	Water .....	≤ 0.01 %	GC-NPD (Ethylparathion standard) ..	≤ 3 ng/l	Test against standard (each 16 PAH) ..
Identification .....	Positive	Not volatile residue .....	≤ 5 mg/kg	Stabilizer (Amylene) .....	20 - 50 mg/Kg	≤ 0.1
Colour .....	≤ 10 hazen	Free acid (as HCl) .....	≤ 5 mg/kg	PAH test (according to ISO 17993) ..	Passes	test
Assay (GLC) .....	≥ 99.9 %	GC-ECD (Lindane standard) .....	≤ 3 ng/l			

Code	Size	Packaging	Notes
442291	1 l	Glass bottle	
442292000	2.5 l	Glass bottle	
442294	4 l	Glass bottle	

**16 selected PAHs tested according to ISO 17993:2002, each max 0,1µg/l**

## Dichloromethane > RS - PESTIPUR - For pesticide analysis - Stabilized with ethanol

**RS**

Refractive index at 20°C..... 1.422 - 1.426	Free acid (as HCl)..... ≤ 5 mg/Kg	Retention time trichlorobenzene to mirex	PAH test (according to ISO 17993) .. Passes test Test against standard (each 16 PAH) .. ≤0.1 µg/l
Water content (K.F.)..... ≤ 100 mg/Kg	Non volatile residue..... ≤ 5 mg/Kg	GC-NPD.Individual peak (Ethylparathion) ≤ 3 ng/l	
Colour..... ≤ 10 Hazen	Assay (GC) (without stabilizer)..... ≥ 99.9 %	Retention time Atrazin to Coumaphos	
Stabilizer (Ethanol)..... 0.1 - 0.4 % m/m	GC-ECD.Individual peak (Lindane) .. ≤ 3 ng/l		

Code	Size	Packaging	Notes
442261	1 l	Glass bottle	
442262	2.5 l	Glass bottle	

**16 selected PAHs tested according to ISO 17993:2002**

## Dichloromethane > RS - SPECTROSOL - For optical spectroscopy - Stabilized with amylene

**RS**

Description..... Clear colourless liquid	Water (K.F.)..... ≤100 ppm	at 365 nm..... ≤2 ppb	at 260 nm..... ≥99 %
Colour (APHA)..... ≤10	Residue on evaporation..... ≤5 ppm	U.V. Transmittance	Amylene..... 20 ÷ 60 ppm
Identification (I.R.)..... Positive	Acidity..... ≤0.0005 meq/g	at 235 nm..... ≥35 %	Alkalinity..... ≤ 0.0002 meq/g
Density at 20° C..... 1.322 ÷ 1.328	Assay (GLC)..... ≥99.9 %	at 240 nm..... ≥70 %	
Refractive index at 20°C. 1.4214 ÷ 1.4274	Fluorescence	at 245 nm..... ≥90 %	
Boiling point..... 39.6 ÷ 40.1 ° C	at 254 nm..... ≤2 ppb	at 250 nm..... ≥95 %	

Code	Size	Packaging	Notes
442371	1 l	Glass bottle	
P02927A21	2.5 l	Glass bottle	

## Dichloromethane > RS - SPECTROSOL - For optical spectroscopy - Stabilized with ethanol

**RS**

Description..... Clear colourless liquid	Water (K.F.)..... ≤100 ppm	at 254 nm..... ≤2 ppb	at 250 nm..... ≥95 %
Colour (APHA)..... ≤10	Residue on evaporation..... ≤5 ppm	at 365 nm..... ≤2 ppb	at 260 nm..... ≥99 %
Identification (I.R.)..... Positive	Acidity..... ≤0.0005 meq/g	U.V. Transmittance	Stabilizer (Ethanol)..... 0.1 ÷ 0.4 %
Density at 20° C..... 1.322 ÷ 1.328	Alcalinity..... ≤0.0002 meq/g	at 235 nm..... ≥35 %	
Refractive index at 20°C. 1.4214 ÷ 1.4274	Assay (GLC)..... ≥99.9 %	at 240 nm..... ≥70 %	
Boiling point..... 39.6 ÷ 40.1 ° C	Fluorescence	at 245 nm..... ≥90 %	

Code	Size	Packaging	Notes
463025	1 l	Glass bottle	

## Dichloromethane > RS - Anhydrous - For analysis - Stabilized with amylene

**RS**

Refractive index at 20°C..... 1.422 - 1.426	Colour..... ≤ 10 Hazen	Free acid (as HCl)..... ≤ 3 mg/Kg
Water content (K.F.)..... ≤ 50 mg/Kg	Assay (GC)..... ≥ 99.95 %	Carbon tetrachloride..... ≤ 20 mg/Kg
Non volatile residue..... ≤ 10 mg/Kg	Stabilizer (Amylene)..... 20 - 60 mg/Kg	Chloroform..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P02910A10	200 ml	Bottle with septum	
P02910AT10	200 ml	Bottle with septum	On molecular sieves 4A
P02910A16	1 l	Glass bottle	
P02910AT16	1 l	Glass bottle	On molecular sieves 4A
P02910A21	2.5 l	Glass bottle	
P02910A48	25 l	Metal drum	

## Dichloromethane > RS - Anhydrous - For analysis - Stabilized with ethanol

**RS**

Refractive index at 20°C..... 1.422 - 1.426	Colour..... ≤ 10 Hazen	Free acid (as HCl)..... ≤ 3 mg/Kg
Water content (K.F.)..... ≤ 50 mg/Kg	Assay (GC) (without stabilizer)..... ≥ 99.95 %	Carbon tetrachloride..... ≤ 20 mg/Kg
Non volatile residue..... ≤ 10 mg/Kg	Stabilizer (Ethanol)..... 0.1 - 0.4 % m/m	Chloroform..... ≤ 40 mg/Kg

Code	Size	Packaging	Notes
P02910E10	200 ml	Bottle with septum	
P02910E16	1 l	Glass bottle	
P02910E21	2.5 l	Glass bottle	

**Dichloromethane > RS - RSE - For electronic use - Stabilized with amylene****RS**

Description	Clear liquid	Heavy metals (Pb)	≤0.1 ppm	Cr	≤0.01 ppm	Pb	≤0.02 ppm
Colour (APHA)	≤10	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.05 ppm
Identification	Positive	Al	≤0.05 ppm	Fe	≤0.1 ppm	Sb	≤0.01 ppm
Density at 20° C	1.322 ÷ 1.328	As	≤0.01 ppm	Ga	≤0.02 ppm	Sn	≤0.02 ppm
Boiling point	39.6 ÷ 40.1 ° C	Au	≤0.05 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Resistivity	≥1 Mohm.cm	B	≤0.01 ppm	K	≤0.1 ppm	Ti	≤0.05 ppm
Assay (GLC)	≥99.5 %	Ba	≤0.1 ppm	Li	≤0.02 ppm	Tl	≤0.05 ppm
Water (K.F.)	≤100 ppm	Be	≤0.02 ppm	Mg	≤0.1 ppm	V	≤0.05 ppm
Residue on evaporation	≤5 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	Zn	≤0.05 ppm
Acidity (HCl)	≤10 ppm	Ca	≤0.2 ppm	Mo	≤0.05 ppm	Zr	≤0.05 ppm
Chloride	≤0.5 ppm	Cd	≤0.01 ppm	Na	≤0.2 ppm	Stabilized with amylene	20 ÷ 60 ppm
Free chlorine	≤0.2 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm	Alcalinity (NH3)	≤ 1 ppm

Code	Size	Packaging	Notes
463162	1 l	Glass bottle	
463161	2.5 l	Glass bottle	

**Dichloromethane > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP - Stabilized with amylene****RPE**

Description	Clear liquid	Boiling point	39.6 ÷ 40.1 ° C	Ba	≤0.1 ppm	Mn	≤0.02 ppm
Colour (APHA)	≤10	Water (K.F.)	≤100 ppm	Ca	≤0.5 ppm	Ni	≤0.02 ppm
Identification (I.R.)	Conform	Residue on evaporation	≤10 ppm	Cd	≤0.05 ppm	Pb	≤0.1 ppm
Ready carbonizable substances	Conform	Acidity	≤0.0003 meq/g	Co	≤0.02 ppm	Sn	≤0.1 ppm
Alcohol miscibility	Complete	Amylene	20 ÷ 60 ppm	Cr	≤0.02 ppm	Zn	≤0.1 ppm
Diethyl ether miscib.	Complete	Chloride	≤1 ppm	Cu	≤0.02 ppm	Assay (GLC)	≥99.9 %
Density at 20° C	1.322 ÷ 1.328	Al	≤0.5 ppm	Fe	≤0.1 ppm	Free halogens	Conform
Refractive index at 20°C	1.4214 ÷ 1.4274	B	≤0.02 ppm	Mg	≤0.1 ppm		

Code	Size	Packaging	Notes
463311	1 l	Glass bottle	
463314	2.5 l	Glass bottle	
524319	10 l	Plastic tank	
463318	20 kg	Drum	
524314	200 l	Metal drum	

**Dichloromethane > RPE - For analysis - ACS - Stabilized with ethanol****RPE**

Description	Clear colourless liquid	Free chlorine	≤ 0.1 ppm	Ba (Barium)	≤ 0.1 ppm	Mn (manganese)	≤0.02 ppm
Color	≤10 APHA	Identity (IR)	Positive	Ca (Calcium)	≤ 0.5 ppm	Ni (Nickel)	≤ 0.02 ppm
Density at 20°C	1.322 ÷ 1.328	Read. carboniz. subs.	Conform	Cd (Cadmium)	≤ 0.05 ppm	Pb (Lead)	≤ 0.1 ppm
Refractive index at 20°C	1.4214 ÷ 1.4274	Residue on evaporation	≤ 10 ppm	Co (Cobalt)	≤ 0.02 ppm	Sn (Tin)	≤0.1 ppm
Boiling point	39.3 ÷ 40.3 ° C	Water (K.F.)	≤ 100 ppm	Cr (Chromium)	≤ 0.02 ppm	Zn (Zinc)	≤ 0.1 ppm
Acidity (Hydrochloric ac.)	≤ 3 ppm	Assay (GLC)	≥ 99.9 %	Cu (Copper)	≤ 0.02 ppm		
Chloride (Cl)	≤ 1 ppm	Al (Aluminium)	≤ 0.5 ppm	Fe (Iron)	≤ 0.1 ppm		
Ethyl alcohol	≤ 0.2 %	B (Boron)	≤ 0.02 ppm	Mg (magnesium)	≤0.1 ppm		

Code	Size	Packaging	Notes
463001	1 l	Glass bottle	
463003	2.5 l	Glass bottle	
463002	5 l	Plastic tank	
463008	250 kg	Metal drum	

**Dichloromethane > ERBapharm - According to pharmacopoeia: NF - Stabilized with ethanol****ERBapharm**

Description	Conform	Residue on evaporation	≤ 20 ppm	Free chlorine	Conform USP-NF	Ethanol	# 0,2 %
Identification (I.R.)	Positive	Acidity	≤ 10 ppm	Water (K.F.)	≤ 200 ppm		
Density d25/25	1,318 ÷ 1,322	Heavy metals (Pb)	≤ 1 ppm	Assay (GLC)	≥ 99.0 %		

Code	Size	Packaging	Notes
354501	1 l	Glass bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Dichloromethane > ERBApharm - According to pharmacopoeia: Ph.Eur.-NF - Stabilized with amylene

**ERBApharm**

Description .....	Clear colourless liquid	Density at 20°C .....	1.320 - 1.332	Residue on evaporation .....	≤ 20 ppm	Amylene .....	20 ÷ 60 ppm
Colour .....	≤ 10 APHA	Density at 25°C .....	1.318 ÷ 1.322	Heavy metals (Pb).....	≤ 1 ppm	Carbon tetrachloride.....	≤ 10 ppm (v/v)
Identification .....	Positive Ph.Eur.	Refractive index at 20°C.....	1.423 - 1.425	Free chlorine.....	Conform USP-NF	Chloroforme.....	≤ 50 ppm (v/v)
Appearance of solution .....	Clear colourless liquid Ph. Eur.	Acidity .....	Pass test Ph.Eur.	Related substances (CPG).....	≤ 0.1 %	Origin (BSE/TSE).....	Synthesis
		Water (K.F.) .....	≤ 200 ppm	Assay (GLC) .....	≥ 99.9 %		

Code	Size	Packaging	Notes
337331	1 l	Glass bottle	
337333	2.5 l	Glass bottle	
337335	25 l	Metal drum	
337337	200 l	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Dichloromethane > ERBApharm - According to pharmacopoeia: Ph.Eur. - Stabilized with ethanol

**ERBApharm**

Description .....	Conform Ph.Eur.	Density at 20°C .....	1.320 ÷ 1.332	Free chlorine.....	Conform Ph.Eur.	Amylene .....	≤ 0.03 %
Colour .....	≤ 10 APHA	Indice di rifraz. ....	1.423 ÷ 1.425	Heavy metals (Pb).....	≤ 1 ppm	Carbon tetrachloride.....	≤ 10 ppm (v/v)
Identification .....	Positive Ph.Eur.	Acidity .....	Conform Ph.Eur.	Related compounds.....	≤ 0.1 %	Chloroforme.....	≤ 50 ppm (v/v)
Appearance of solution .....	Clear colourless liquid Ph.Eur.	Residue on evaporation .....	≤ 10 ppm	Assay (GLC) .....	≥ 99.95 %		
		Water (K.F.) .....	≤ 100 ppm	Ethanol.....	≤ 2.0 %		

Code	Size	Packaging	Notes
525320	2.5 l	Glass bottle	
525321	200 l	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Dichloromethane > RE - Pure - stabilized with amylene

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4194 ÷ 1.4294	Residue on evaporation .....	≤ 20 ppm	Amylene .....	20 ÷ 60 ppm
Colour .....	≤ 10 APHA	Boiling point.....	39.1 ÷ 40.6 °C	Water (K.F.) .....	≤ 200 ppm	
Density at 20°C .....	1.320 ÷ 1.330	Acidity (HCl) .....	≤ 10 ppm	Assay (GLC) .....	≥ 99.8 %	

Code	Size	Packaging	Notes
528461	5 l	Plastic tank	
528464	10 l	Plastic tank	
528463	25 l	Plastic tank	
528462	200 l	Metal drum	

## Dichloromethane > RE - Pure - Stabilized with ethanol

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C... 1.4194 ÷ 1.4294	Residue on evaporation .....	≤ 20 ppm	Assay (GLC) .....	≥ 99.8 %	
Color .....	< 10 APHA	Boiling point.....	39.3 ÷ 40.3 °C	Water (K.F.) .....	≤ 200 ppm	Ethanol (stab) .....	~0,2 %
Density at 20°C .....	1.32 ÷ 1.33	Acidity (hydrochloric acid) .....	≤ 5 ppm	Alcohol and ether miscibility.....	Complete		

Code	Size	Packaging	Notes
528377	2.5 l	Glass bottle	
337315	5 l	Metal tank	
528372	5 l	Plastic tank	
528379	10 l	Plastic tank	
528370	25 l	Metal drum	
528371	200 l	Metal drum	

## Dichloromethane > RE - Pure - Stabilized with cyclohexane

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4194 ÷ 1.4294	Water (K.F.) .....	≤ 500 ppm	Other impurities .....	≤ 0.5 %	
Colour .....	≤ 10 APHA	Boiling point.....	39.0 ÷ 40.5 °C	Methyl alcohol.....	≤ 500 ppm	Cyclohexane .....	0.0165 ÷ 0.0660 % (v/v)
Assay (GLC) .....	≥ 99.5 %	Acidity .....	≤ 1 %	Ethyl alcohol .....	≤ 500 ppm		
Density at 20°C .....	1.320 ÷ 1.330	Residue on evaporation .....	≤ 5 ppm	Chloroform.....	≤ 1 %		

Code	Size	Packaging	Notes
508370	1 l	Glass bottle	
508374	5 l	Plastic tank	
508375	200 l	Metal drum	

**Dichloromethane acidified with 1% hydrochloric acid**

- Diclorometano acidificato con acido cloridrico 1% • Dichlorométhane acidifié avec 1% d'acide chlorhydrique
- Diclorometano acidificado con ácido clorhídrico 1% • Dichlormethan mit 1% Salzsäure angesäuert

Synonym:  
*Methylene chloride*

CH<sub>2</sub>Cl<sub>2</sub>  
Molecular Weight: 84,93  
CAS: 75-09-2  
EEC-N: 200-838-9

**Classification transport**  
ONU: 1593  
Transport Hazard class: 6.1  
Packing group III



**Warning**  
H315-H319-H351-H335-H336-H373  
P271-P280-P304+P340-P305+P351+P338-  
P308+P313-P403+P233

**Dichloromethane acidified with 1% hydrochloric acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611055901	100 ml	Glass bottle	Ref Ph.Eur 1055901

**Dichloromethane-d2**

- Diclorometano-d2 • Dichlorométhane-d2 • Diclorometano-d2 • Dichlormethan-d2

Synonym:  
*Dideuteromethylenechloride*

CD<sub>2</sub>Cl<sub>2</sub>  
Molecular Weight: 86,95  
CAS: 1665-00-5  
EEC-N: 216-776-0

**Classification transport**  
ONU: 1593  
Transport Hazard class: 6.1  
Packing group III



**Warning**  
H315-H319-H351-H335-H336-H373  
P271-P280-P304+P340-P305+P351+P338-  
P308+P313-P403+P233

**Dichloromethane-d2 > RS - For NMR - min 99.5%****RS**

Code	Size	Packaging	Notes
P5330	10 x 0.6 ml	Glass ampoule	
P5339	10 x 0.75 ml	Glass ampoule	
P5335	25 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**

**2,6-Dichlorophenolindophenol sodium salt**

- 2,6-Diclorofenolindofenolo sale sodico • 2,6-Dichlorophénolindophénol sel de sodium
- 2,6-Diclorofenol-indofenol sal sódica • 2,6-Dichlorphenolindophenol-Natriumsalz

Synonym:  
*2,6-Dichloro-N-(4-hydroxyphenyl)-1,4-benzoquinoneimine sodium salt*

C<sub>12</sub>H<sub>7</sub>Cl<sub>2</sub>NO<sub>2</sub>.Na  
Molecular Weight: 326,09  
CAS: 620-45-1  
EEC-N: 210-640-4

**2,6-Dichlorophenolindophenol sodium salt > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... Dark green powder    Identification ..... Positive    Colouring interferences..... Conform    Loss on drying 120° C..... ≤12 %

Code	Size	Packaging	Notes
442508	5 g	Glass bottle	

**For the determination of ascorbic acid**

**2,6-Dichloroquinone-4-chlorimide**

- 2,6-Dicloroquinone-4-clorimide • 2,6-Dichloroquinone-4-chloroimide • 2,6-Dicloroquinona-4-clorimida
- 2,6-Dichlorchinon-4-chlorimid

Synonym:  
*Gibb's reagent*  
*N-2,6-trichloro-p-benzoquinoneimide*

CIN:CCH:CCICOCCL:CH  
Molecular Weight: 210,45  
CAS: 101-38-2  
EEC-N: 202-937-2

**Classification transport**  
ONU: 3224  
Transport Hazard class: 4.1  
Packing group II



**Warning**  
H242-H315-H319-H335  
P210-P280-P304+P340-P305+P351+P338-  
P403+P233-P410

**2,6-Dichloroquinone-4-chlorimide > RPE - For analysis****RPE**

Description ..... Yellow orange powder    Identification ..... Positive    Melting point..... 65.0 ÷ 67.0 ° C    Assay (argentimetric)..... ≥98 %

Code	Size	Packaging	Notes
442458	5 g	Glass bottle	

**For spectrophotometric determination of vitamin B6**

**Diethanolamine**

• Dietanolamina • Diéthanolamine • Dietanolamina • Diethanolamin

## Synonym:

- 2,2'-Iminodiethanol
- Bis(2-hydroxyethyl)amine

(CH<sub>2</sub>OHCH<sub>2</sub>)<sub>2</sub>NH  
Molecular Weight: 105,14  
CAS: 111-42-2  
EEC-N: 203-868-0

**Danger**

H302-H315-H318-H373

P260-P305+P351+P338-P310a-P330-P362+P364-P332+P313

**Diethanolamine > RPE - For analysis****RPE**

Description ..... Clear colourless liquid      Refract. index at 30° C ... 1.4723 ÷ 1.4783      Monoethanolamine ..... ≤0.5 %      Assay (alkalimetric) ..... ≥99 %  
Identification ..... Positive      Melting point ..... 27.8 ÷ 28.3 ° C      Residue on ignition ..... ≤50 ppm      Assay (GLC) ..... ≥99 %  
Density at 30° C ..... 1.085 ÷ 1.091      Water (K.F.) ..... ≤0.5 %      Triethanolamine ..... ≤0.5 %

Code	Size	Packaging	Notes
442554	100 g	Glass bottle	
442557	1 kg	Glass bottle	
442558	200 l	Metal drum	

**Diethanolamine > ERBApharm - According to pharmacopoeia: USP-NF****ERBApharm**

Description ..... Clear colourless liquid      Refract. index at 30° C ..... 1.473 ÷ 1.476      Triethanolamine ..... ≤1.0 %      Origin (BSE/TSE) ..... Synthesis  
Identification ..... Positive      Water (K.F.) ..... ≤0,15 %      Assay (alkalimetric) ..... 98,5÷101,0 %      Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
337801	215 kg	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Diethylamine**

• Dietilamina • Diéthylamine • Dietilamina • Diethylamin

(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NH  
Molecular Weight: 73,14  
CAS: 109-89-7  
EEC-N: 203-716-3

**Classification transport**

ONU: 1154  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H302-H311-H332-H314-H335

P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P361+P364-P403+P233

**Diethylamine > RPE - For analysis****RPE**

Description ..... Clear colourless liquid      Density at 20° C ..... 0.705 ÷ 0.708      Boiling point ..... 55 ÷ 56 ° C      Assay (GLC) ..... ≥99 %  
Identification ..... Positive      Refractive index at 20°C. 1.3840 ÷ 1.3900      Residue on evaporation ..... ≤50 ppm

Code	Size	Packaging	Notes
442756	1 l	Glass bottle	

**Diethylamine > RE - Pure****RE**

Description ..... Clear colourless liquid      Refractive index at 20°C. 1.3840 ÷ 1.3900      Boiling point ..... 55 ÷ 56 ° C      Density at 20°C ..... 0.705 ÷ 0.708  
Identification ..... Positive      Assay (GLC) ..... ≥ 99 %      Water (K.F.) ..... ≤ 0.2 %

Code	Size	Packaging	Notes
337501	1 l	Glass bottle	

**Diethyl carbonate**

• Diethylcarbonato • Diéthylcarbonate • Diethylcarbonato • Diethylcarbonat

Synonym:

Carbonic acid diethyl ester

 $(C_2H_5)_2CO_3$ 

Molecular Weight: 118,13

CAS: 105-58-8

EEC-N: 203-311-1

**Classification transport**

ONU: 2366

Transport Hazard class: 3

Packing group III

**Warning**

H226

P210-P241-P280-P303+P361+P353-P403+P235-P501a

**Diethyl carbonate > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Refractive index at 20°C ..... 1.3820 ÷ 1.3870    Residue on evaporation ..... ≤20 ppm  
 Identification ..... Positive    Boiling point ..... 125.3 ÷ 126.8 ° C    Chloride ..... ≤5 ppm  
 Density at 20° C ..... 0.971 ÷ 0.979    Water (K.F.) ..... ≤500 ppm    Assay (GLC) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
443056	1 l	Glass bottle	

**Diethylene glycol**

• Glicol dietilenico • Glicol diéthylénique • Glicol dietilénico • Diethylenglykol

Synonym:

• 2,2'-Oxydiethanol

• 2-Hydroxyethyl ether

 $(HOCH_2CH_2)_2O$ 

Molecular Weight: 106,12

CAS: 111-46-6

EEC-N: 203-872-2

**Warning**

H302

P264-P270-P301+P312a-P330-P501a

**Diethylene glycol > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.115 ÷ 1.119    Boiling point ..... 240 ÷ 252 ° C    Assay (GLC) ..... ≥98 %  
 Identification ..... Positive    Refractive index at 20°C. 1.4450 ÷ 1.4500    Water (K.F.) ..... ≤0.3 %

Code	Size	Packaging	Notes
443255	1 l	Glass bottle	
443253	2.5 l	Glass bottle	
443252	25 kg	Drum	

**Hygroscopic product. Store well sealed in a dry place****Diethylene glycol > RE - Pure****RE**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.112 ÷ 1.122    Boiling point ..... 240 ÷ 252 ° C    Water ..... ≤0.3 %  
 Identification ..... Positive    Refractive index at 20°C. 1.4425 ÷ 1.4525    Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
346301	1 l	Glass bottle	
346303	2.5 l	Glass bottle	
346304	30 kg	Metal drum	

**Hygroscopic product. Store well sealed in a dry place****Diethylene glycol butyl ether ▶ 2-(2-Butoxyethoxy)ethanol****Diethylene glycol dimethyl ether**

• Glicol dietilenico dimetilètere • Glicol diéthylénique diméthyléthèr • Glicol dietilénico dimetiléter • Diethylenglycoldimethylether

Synonym:

• Diglyme

• 2-Methoxyethyl ester

 $(CH_3OCH_2CH_2)_2O$ 

Molecular Weight: 134,17

CAS: 111-96-6

EEC-N: 203-924-4

**Classification transport**

ONU: 3271

Transport Hazard class: 3

Packing group III

**Danger**

H226-H360FD-HEU019-HA26

P210-P241-P280-P303+P361+P353-P308+P313-P403+P235

**Diethylene glycol dimethyl ether > RE - Pure****RE**

Refractive index at 20°C ..... 1.406 - 1.41    Water content (K.F.) ..... ≤ 500 mg/Kg    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
P0410228	5 l	Metal tank	
P0410248	25 l	Metal drum	

## Diethylene oxide ▶ 1,4-Dioxane



### Diethylenetriaminepentacetic acid

- Acido dietilentriaminopentacetico • Acide diéthylènetriaminepentacétique
- Acido dietilentriaminopentaacético • Diethylentriaminpentaessigsäure

Synonym:

- (Carboxymethylimino)bis(ethylenenitrilo) tetraacetic acid
- Pentetic acid

$C_{14}H_{23}N_3O_{10}$   
Molecular Weight: 393,35  
CAS: 67-43-6  
EEC-N: 200-652-8

#### Classification transport

ONU: -



#### Warning

H319-H412  
P264-P273-P280i-P305+P351+P338-P337+P313-P501a

### Diethylenetriaminepentacetic acid > RPE - For analysis

RPE

Description ..... White crystalline powder Identification ..... Positive Assay (acidimetric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
405192	250 g	Glass bottle	

**For the preparation of complexes: Na<sub>2</sub>Fe(DPTA), Na<sub>2</sub>[Cr(DPTA)] et H<sub>2</sub>[Gd(DPTA)]**



### Diethyl ether

- Dietiletere • Ether éthylique • Dietileter • Diethylether

Synonym:

Ethyl ether

$CH_3CH_2OCH_2CH_3$   
Molecular Weight: 74,12  
CAS: 60-29-7  
EEC-N: 200-467-2

#### Classification transport

ONU: 1155  
Transport Hazard class: 3  
Packing group I



#### Danger

H224-H302-H336-HEU019-HEU066  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### Diethyl ether > RS - For HPLC - Isocratic grade - Not stabilized

RS

Clear, colourless liq. appearance ..... Conform Water content (K.F.) ..... ≤ 100 mg/Kg UV transmittance at 220 nm ..... ≥ 10 % UV transmittance at 300 nm ..... ≥ 98 %  
Identification ..... Conform Free acid (as CH<sub>3</sub>COOH) ..... ≤ 30 mg/Kg UV transmittance at 230 nm ..... ≥ 45 % Assay (GC) ..... ≥ 99.7 %  
Colour ..... ≤ 10 Apha Peroxides (as H<sub>2</sub>O<sub>2</sub>) ..... ≤ 60 mg/Kg UV transmittance at 250 nm ..... ≥ 75 %  
Refractive index at 20°C ..... 1.35 - 1.354 Non volatile residue ..... ≤ 5 mg/Kg UV transmittance at 280 nm ..... ≥ 92 %

Code	Size	Packaging	Notes
412671	1 l	Glass bottle	
412672	2.5 l	Glass bottle	
412674	4 l	Glass bottle	

### Diethyl ether > RS - PESTIPUR - For pesticide analysis - Not stabilized

RS

Description ..... Clear liquid Water ..... ≤ 0.02 % Peroxides (H<sub>2</sub>O<sub>2</sub>) ..... ≤ 60 ppm  
Colour ..... ≤ 10 hazen Acidity (acetic acid) ..... ≤ 30 ppm GC-ECD (Lindano) ..... ≤ 3 ng/l  
Identification ..... Positive Not volatile residue ..... ≤ 5 ppm Assay (GLC) ..... ≥ 99.7 %

Code	Size	Packaging	Notes
447651	1 l	Glass bottle	
447652	2.5 l	Glass bottle	

### Diethyl ether > RS - SPECTROSOL - For optical spectroscopy - Not stabilized

RS

Description ..... Clear liquid Peroxides (as H<sub>2</sub>O<sub>2</sub>) ..... ≤ 60 mg/Kg Alkalinity ..... ≤ 0.0002 meq/g at 230 nm ..... ≥ 45 %  
Colour (APHA) ..... ≤ 10 Boiling point ..... 34.4 ÷ 34.9 ° C Peroxides (H<sub>2</sub>O<sub>2</sub>) ..... ≤ 60 ppm at 250 nm ..... ≥ 75 %  
Identification ..... Positive Water (K.F.) ..... ≤ 100 ppm Assay (GLC) ..... ≥ 99.7 % at 280 nm ..... ≥ 92 %  
Colour ..... ≤ 10 Hazen Residue on evaporation ..... ≤ 5 ppm U.V. Transmittance at 300 nm ..... ≥ 98 %  
Density at 20° C ..... 0.712 ÷ 0.714 Acidity ..... ≤ 0.0005 meq/g at 220 nm ..... ≥ 10 %

Code	Size	Packaging	Notes
447593	1 l	Glass bottle	

**Diethyl ether > RS - Anhydrous - For analysis - Stabilized with BHT****RS**

Refractive index at 20°C..... 1.35 - 1.354	Assay (GC)..... ≥ 99.7 %	Ketone and Aldehyde..... ≤ 100 mg/kg	Matter darkened by H2SO4..... ≤ 10 Hazen
Water content (K.F.)..... ≤ 50 mg/Kg	Peroxides (as H2O2)..... ≤ 1 mg/Kg	Methanol..... ≤ 200 mg/Kg	Non volatile residue (without stab.) ≤ 10 mg/Kg
Colour..... ≤ 10 Hazen	Free acid (as CH3COOH)..... ≤ 30 mg/Kg	Stabilizer (ionol)..... 5 - 7 mg/Kg	

Code	Size	Packaging	Notes
P0441010	200 ml	Bottle with septum	
P04410T10	200 ml	Bottle with septum	On molecular sieves 4A, Water content < 20ppm
P0441008	1 l	Aluminium can	
P0441016	1 l	Glass bottle	
P04410T16	1 l	Glass bottle	On molecular sieves 4A, Water content < 20ppm
P0441021	2.5 l	Glass bottle	

**Diethyl ether > RPE - For analysis - ACS - Not stabilized****RPE**

Description..... Clear liquid	Residue on evaporation..... ≤10 ppm	Carbonyl Compounds (CO)..... ≤10 ppm
Colour (APHA)..... ≤10	Acidity..... ≤0.0002 meq/g	Peroxides (H2O2)..... ≤1 ppm
Water (K.F.)..... ≤300 ppm	Ethyl alcohol..... Conform	Assay (GLC)..... ≥99.0 %

Code	Size	Packaging	Notes
447534	1 l	Glass bottle	
447539	5 l	Aluminium can	
447532	20 kg	Aluminium can	
447531	140 kg	Metal drum	

**Diethyl ether > RPE - For analysis - Stabilized with BHT****RPE**

Refractive index at 20°C..... 1.35 - 1.354	Assay (GC)..... ≥ 99.7 %	Ketone and Aldehyde..... ≤ 100 mg/kg	Matter darkened by H2SO4..... ≤ 10 Hazen
Water content (K.F.)..... ≤ 200 mg/Kg	Peroxides (as H2O2)..... ≤ 1 mg/Kg	Methanol..... ≤ 200 mg/Kg	Non volatile residue (without stab.) ≤ 10 mg/Kg
Colour..... ≤ 10 Hazen	Free acid (as CH3COOH)..... ≤ 30 mg/Kg	Stabilizer (ionol)..... 5 - 7 mg/Kg	

Code	Size	Packaging	Notes
P0440508	1 l	Aluminium bottle	

**Diethyl ether > RPE - For analysis - ACS - Stabilized with BHT****RPE**

Description..... Clear liquid	Residue on evaporation..... ≤10 ppm	Al..... ≤0.5 ppm	Ni..... ≤0.02 ppm
Colour (APHA)..... ≤10	Acetone..... ≤50 ppm	Ca..... ≤0.5 ppm	Pb..... ≤0.05 ppm
Identification (I.R.)..... Conform	Acidity (acetic acid)..... ≤5 ppm	Cd..... ≤0.05 ppm	Sn..... ≤0.1 ppm
Foreign odours..... Conform	Alcalinity (NH3)..... ≤1.4 ppm	Co..... ≤0.02 ppm	Zn..... ≤0.1 ppm
Ready carbonizable substances..... Conform	Ethyl alcohol..... ≤100 ppm	Cr..... ≤0.02 ppm	Assay (GLC)..... ≥99.8 %
Density at 20° C..... 0.714 ÷ 0.716	Methyl alcohol..... ≤200 ppm	Cu..... ≤0.02 ppm	Stabilized with about 6 ppm BHT
Refractive index at 20°C..... 1.35 - 1.354	Carbonyl Compounds (CO)..... ≤10 ppm	Fe..... ≤0.1 ppm	
Boiling point..... 34.0 ÷ 35.0 ° C	Heavy metals (Pb)..... ≤1 ppm	Mg..... ≤0.1 ppm	
Water (K.F.)..... ≤200 ppm	Peroxides (H2O2)..... ≤1 ppm	Mn..... ≤0.02 ppm	

Code	Size	Packaging	Notes
447521	1 l	Glass bottle	
447523	2.5 l	Glass bottle	
447522	5 l	Aluminium can	
447525	20 kg	Aluminium can	

**Diethyl ether > ERBApharm - According to pharmacopoeia: BP-Ph.Eur. - Stabilized with BHT****ERBApharm**

Description..... Clear colourless liquid	Foreign odours..... Conform Ph.Eur.	Water (K.F.)..... ≤0.2 %	Residual solvents (Current ICH)..... Conform
Identification..... Positive	Peroxide..... Conform Ph.Eur.	Non volat.substances..... ≤20 ppm p/v	
Acidity..... Conform Ph.Eur.	Density at 20° C..... 0.714 ÷ 0.716	Assay (CPG)..... ≥ 99.5 %	
Aldehydes..... Conform Ph.Eur.	Boiling point..... 34.0 ÷ 35.0 ° C	Origin (BSE/TSE)..... Synthesis	

Code	Size	Packaging	Notes
340751	1 l	Glass bottle	
340731	40 x 100 g	Glass bottle	
340752	20 kg	Aluminium can	
340759	140 kg	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



**Diethyl ether > RE - Pure - Stabilized with BHT****RE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.710 ÷ 0.716	Residue on evaporation .....	≤20 ppm	Assay (GLC) .....	≥99.5 %
Density at 20°C .....	0.710 ÷ 0.716	Boiling point .....	34.1 ÷ 35.1 ° C	Acidity (acetic acid) .....	≤20 ppm	Stabilized with BHT .....	5 ÷ 7 ppm
Identification .....	Positive	Water (K.F) .....	≤300 ppm	Peroxyde (H2O2) .....	≤ 1 ppm		

Code	Size	Packaging	Notes
528275	5 l	Aluminium can	
340762	20 kg	Aluminium can	
528276	25 l	Metal drum	
340765	140 kg	Metal drum	

**n,n-Diethyl-p-phenylenediamine sulfate**

• n,n-Dietil-p-fenilendiammina solfato • n,n-Diéthyl-p-phénylènediamine sulfate  
 • n,n-Dietil-p-fenilendiamonio solfato • n,n-Diéthyl-p-phenylenediamin-sulfat

Synonym:

4-Amino-N,N-diethylaniline sulfate salt

$\text{NH}_2\text{C}_6\text{H}_4\text{N}(\text{C}_2\text{H}_5)_2 \cdot \text{H}_2\text{SO}_4$   
 Molecular Weight: 262,33  
 CAS: 6283-63-2  
 EEC-N: 228-500-6

**Classification transport**

ONU: 2811  
 Transport Hazard class: 6.1  
 Packing group III

**Danger**

H301  
 P264-P270-P301+P310a-P330-P405-P501a

**n,n-Diethyl-p-phenylenediamine sulfate > RPE - For analysis****RPE**

Description	White to beige crystalline powder	Identification .....	Positive	Melting point .....	184 - 187 °C	Assay (oxidimetric) .....	≥98.5 %
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Code	Size	Packaging	Notes
443341	100 g	Plastic bottle	

**n,n-Diethyl-p-phenylenediamine sulfate > RE - Pure****RE**

Description .....	White to beige crystalline powder	Identification .....	Positive	Assay (oxidimetric) .....	≥98 %
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Code	Size	Packaging	Notes
338124	100 g	Plastic bottle	
338121	1 kg	Plastic bottle	

**Diethyl phthalate**

• Dietilftalato • Diéthyle phtalate • Dietil ftalato • Diethylphthalat

$\text{C}_8\text{H}_4(\text{COOC}_2\text{H}_5)_2$   
 Molecular Weight: 222,24  
 CAS: 84-66-2  
 EEC-N: 201-550-6

**Diethyl phthalate > RPE - For analysis****RPE**

Description .....	Clear colourless liquid	Density at 20° C .....	1.118 ÷ 1.121	Water (K.F) .....	≤0.1 %	Heavy metals (Pb) .....	≤5 ppm
Identification .....	Positive	Refractive index at 20° C .....	1.500 ÷ 1.504	Residue on ignition .....	≤100 ppm	Assay (GLC) .....	≥99 %

Code	Size	Packaging	Notes
443404	1 l	Glass bottle	

**Diethyl phthalate > ERBapharm - According to pharmacopoeia: BP-NF-Ph.Eur.-JPE****ERBapharm**

Description .....	Clear colourless, very slightly yellow liq.	Acidity (ml NaOH 0.1M) .....	≤ 0.1 ml	Density at 20°C .....	1.118 - 1.122 NF	Origin (BSE/TSE) .....	Synthesis
Identification (IR) .....	Positive	Acid value .....	≤ 0.1 mg KOH/g	Water (K.F) .....	≤ 0.2 %	Heavy metals (Pb) .....	≤ 20 ppm
Refractive index at 20°C .....	1.500 ÷ 1.504	Related substances (GLC) .....	Conform Ph. Eur.	Sulphated ash .....	≤ 0.02 %	As .....	≤ 2 ppm
Appearance .....	Conform Ph. Eur.	Density (d20/20) .....	1.118 - 1.121 Ph. Eur.	Assay (saponification) .....	99.0 - 101.0 % (m/m)	Residual solvents (Current ICH) .....	Conform

Code	Size	Packaging	Notes
338112	1 l	Glass bottle	
338115	2.5 l	Glass bottle	
338113	30 kg	Metal drum	
338114	200 l	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Differentiator for kit Gram-Hucker**

- Differenziatore per kit Gram-Hucker • Différenciateur pour kit de Gram-Hucker • Diferenciador para kit Gram-Hucker
- Unterscheidungsmerkmal für Gram-Hucker Kit

**Classification transport**  
ONU: 1987  
Transport Hazard class: LQ



**Danger**  
H225-H319-H371  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

**Differentiator for kit Gram-Hucker > RS - For bacteriology****RS**

Description ..... Liquido incolore Identification ..... Positive

Code	Size	Packaging	Notes
444131	250 ml	Glass bottle	In Vitro Diagnostic Medical Device

**Digitonin**

- Digitonina • Digitonine • Digitonina • Digitonin

Synonym:  
*Digitin*

$C_{56}H_{92}O_{29}$   
Molecular Weight: 1229,34  
CAS: 11024-24-1  
EEC-N: 234-255-6

**Classification transport**  
ONU: 1544  
Transport Hazard class: 6.1  
Packing group I



**Danger**  
H301-H373  
P260-P264-P301+P310a-P330-P314-P501a

**Digitonin > RPE - For analysis****RPE**

Description ..... White crystalline powder Water (K.F.) ..... ≤ 6 % Potere rotat. spec. (C=10; CH<sub>3</sub>COOH 75%) ..... -47 ÷ -49 °  
Identification ..... Positive Residue on calcination ..... ≤ 0.3 % (s.s.)

Code	Size	Packaging	Notes
444207	1 g	Glass bottle	

**Diglyme ► Diethylene glycol dimethyl ether****1,4-Dihydroxybenzene ► Hydroquinone****Diisopropylamine**

- Diisopropilamina • Diisopropylamine • Diisopropilamina • Diisopropylamin

Synonym:  
*DIPA*

$[(CH_3)_2CH]_2NH$   
Molecular Weight: 101,19  
CAS: 108-18-9  
EEC-N: 203-558-5

**Classification transport**  
ONU: 1158  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H331-H314-H335  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

**Diisopropylamine > RPE - For analysis****RPE**

Description ..... Clear liquid Colour ..... ≤ 10 APHA Water ..... ≤ 0.2 %  
Identification ..... Positive Refractive index at 20°C ..... 1.3910 ÷ 1.3930 Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
445981	250 ml	Glass bottle	

**Diisopropylether**

• Diisopropiletere • Ether isopropylque • Eter di-isopropilico • Di-isopropylether

Synonym:  
Isopropyl ether[(CH<sub>3</sub>)<sub>2</sub>CH]<sub>2</sub>O  
Molecular Weight: 102,18  
CAS: 108-20-3  
EEC-N: 203-560-6**Classification transport**  
ONU: 1159  
Transport Hazard class: 3  
Packing group II**Danger**  
H225-H336-HEU019-HEU066  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233**Diisopropylether > RS - Anhydrous - For analysis****RS**

Appearance ..... Clear colourless liquid	Water content (K.F.) ..... ≤ 50 mg/Kg	Peroxides (as H <sub>2</sub> O <sub>2</sub> ) ..... ≤ 10 mg/Kg	Free acid (as CH <sub>3</sub> COOH) ..... ≤ 10 mg/Kg
Refractive index at 20°C ..... 1.366 - 1.370	Colour ..... ≤ 10 Hazen	Assay (GC) ..... ≥ 99.0 %	Non volatile residue (without stab.) ≤ 10 mg/Kg
Identification (IR) ..... Conform	Density d <sub>20/4</sub> ..... 0.722 - 0.726	Stabilizer (ionol) ..... 2 - 15 mg/Kg	

Code	Size	Packaging	Notes
P0431016	1 l	Glass bottle	

**Diisopropylether > RPE - For analysis****RPE**

Description ..... Clear colourless liquid	Chloroform miscibility ..... Complete	Boiling point ..... 66.5 ÷ 69.5 ° C	Assay (GLC) ..... ≥ 98.5 %
Identification (I.R.) ..... Conform	Diethyl ether miscib. .... Complete	Water (K.F.) ..... ≤ 0.1 %	
Alcohol miscibility ..... Complete	Density at 20° C ..... 0.719 ÷ 0.729	Peroxides (H <sub>2</sub> O <sub>2</sub> ) ..... ≤ 5 ppm	

Code	Size	Packaging	Notes
447932	1 l	Glass bottle	
447931	2.5 l	Glass bottle	
447933	5 l	Plastic tank	
447935	21 kg	Aluminium can	

**Stabilized with ~10 ppm of BHT****Diisopropylether > RE - Pure****RE**

Appearance ..... Clear colourless liquid	Colour ..... ≤ 10 Hazen	Assay (GC) ..... ≥ 99.0 %	Non volatile residue (without stab.) ≤ 10 mg/Kg
Identification (IR) ..... Conform	Density d <sub>20/4</sub> ..... 0.722 - 0.726	Stabilizer (ionol) ..... 2 - 15 mg/Kg	
Water content (K.F.) ..... ≤ 1000 mg/Kg	Peroxides (as H <sub>2</sub> O <sub>2</sub> ) ..... ≤ 50 mg/Kg	Free acid (as CH <sub>3</sub> COOH) ..... ≤ 10 mg/Kg	

Code	Size	Packaging	Notes
P0430228	5 l	Plastic tank	
P0430240	10 l	Metal tank	
P0430248	25 l	Metal drum	
P0430268	200 l	Metal drum	

**N,N-Diisopropylethylamine**• N,N-Diisopropiletilammina • N,N-Diisopropyléthylamine • N,N-Diisopropiletilamina  
• N,N-DiisopropylethylaminSynonym:  
• DIPEA  
• EthyldiisopropylamineC<sub>8</sub>H<sub>19</sub>N  
Molecular Weight: 129,25  
CAS: 7087-68-5  
EEC-N: 230-392-0**Classification transport**  
ONU: 3384  
Transport Hazard class: 6.1  
Packing group I**Danger**  
H225-H302-H331-H318-H335-H412  
P210-P280-P303+P361+P353-P304+P310a-P305+P351+P338-P330-P403+P233**N,N-Diisopropylethylamine > RE - Pure****RE**

Appearance ..... Clear, colourless to yellowish liquid	Refractive index at 20°C ..... 1.411 - 1.415	Assay (GC) ..... ≥ 98 %
Identification ..... Conform	Water content (K.F.) ..... ≤ 3000 mg/Kg	

Code	Size	Packaging	Notes
P0400272	200 ml	Bottle with septum	
P0400252	30 l	Plastic tank	

**Dimedone**

• Dimedone • Dimédon • Dimedona • Dimedon

Synonym:  
Methone

$(\text{CH}_3)_2\text{CCH}_2\text{COCH}_2\text{COCH}_2$   
 Molecular Weight: 140,18  
 CAS: 126-81-8  
 EEC-N: 204-804-4

**Dimedone > RPE - For analysis****RPE**

Description ..... White crystalline powder    Identification ..... Positive    Melting point .....  $146 \div 150^\circ\text{C}$     Assay (GLC) .....  $\geq 98.5\%$

Code	Size	Packaging	Notes
444252	25 g	Glass bottle	

**For the determination of aldehydes****1,2-Dimethoxyethane**

• 1,2-Dimetossietano • 1,2-Diméthoxyéthane • 1,2-Dimetoxietano • 1,2-Dimethoxyethan

Synonym:

• Dimethylglycol  
• Dimethyl ether ethylene glycol

$\text{C}_4\text{H}_{10}\text{O}_2$   
 Molecular Weight: 90,12  
 CAS: 110-71-4  
 EEC-N: 203-794-9

**Classification transport**

ONU: 2252  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H332-H360FD-HEU019-HA26  
 P210-P241-P261-P280-P303+P361+P353-  
 P304+P340

**1,2-Dimethoxyethane > RS - Anhydrous - For analysis****RS**

Refractive index at  $20^\circ\text{C}$  ..... 1.377 - 1.381    Water content (K.F.) .....  $\leq 200\text{ mg/Kg}$     Colour .....  $\leq 10\text{ Hazen}$     Assay (GC) .....  $\geq 99\%$

Code	Size	Packaging	Notes
P0301010	200 ml	Bottle with septum	
P03010T16	1 l	Glass bottle	On molecular sieves 3A

**1,2-Dimethoxyethane > RE - Pure****RE**

Refractive index at  $20^\circ\text{C}$  ..... 1.377 - 1.381    Non volatile residue .....  $\leq 50\text{ mg/Kg}$     Assay (GC) .....  $\geq 99.5\%$   
 Water content (K.F.) .....  $\leq 500\text{ mg/Kg}$     Colour .....  $\leq 10\text{ Hazen}$     Free acid (as  $\text{CH}_3\text{COOH}$ ) .....  $\leq 150\text{ mg/Kg}$

Code	Size	Packaging	Notes
P0300221	2.5 l	Glass bottle	
P0300268	200 l	Metal drum	

**N,N-Dimethylacetamide**

• N,N-Dimetilacetamide • N,N-Diméthylacétamide • N,N-Dimetilacetamida • N,N-Diethylacetamid

$\text{CH}_3\text{CON}(\text{CH}_3)_2$   
 Molecular Weight: 87,12  
 CAS: 127-19-5  
 EEC-N: 204-826-4

**Danger**

H312-H332-H360D-HA26  
 P261-P271-P280-P304+P340-P308+P313-  
 P362+P364

**N,N-Dimethylacetamide > RS - For Headspace chromatography****RS**

Description ..... Clear colourless liquid    Acidity (acetic acid) .....  $\leq 50\text{ ppm}$     At 300 nm .....  $\geq 85\%$     Residual solvent of class 2(acc. to ICH)  $\leq 10\text{ }\mu\text{g/g}$   
 Identification ..... Positive    Assay (GLC) .....  $\geq 99.95\%$     at 350 nm .....  $\geq 98\%$     Residual solvent of class 3(acc. to ICH)  $\leq 50\text{ }\mu\text{g/g}$   
 Density at  $20^\circ\text{C}$  .....  $0.940 \div 0.946$     UV cut off .....  $\leq 268\text{ nm}$     at 400 nm .....  $\geq 99\%$   
 Refractive index at  $20^\circ\text{C}$  .....  $1.4363 \div 1.4403$     U.V. Transmittance    GC/HS    Residual solvent of class 1(acc. to ICH)  $\leq 1\text{ }\mu\text{g/g}$   
 Boiling point .....  $164.0 \div 166.0^\circ\text{C}$     at 268 nm .....  $\geq 10\%$     Residual solvent of class 1(acc. to ICH)  $\leq 1\text{ }\mu\text{g/g}$   
 Water (K.F.) .....  $\leq 0.03\%$     at 275 nm .....  $\geq 55\%$

Code	Size	Packaging	Notes
444311	1 l	Glass bottle	

## N,N-Dimethylacetamide > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Boiling point.....	164.0 ÷ 166.0 °C	Chloride.....	≤10 ppm	Assay (GLC) .....	≥99.8 %
Identification .....	Positive	Water (K.F.) .....	≤0.05 %	Heavy metals (Pb).....	≤5 ppm		
Density at 20° C .....	0.940 ÷ 0.946	Residue on evaporation .....	≤50 ppm	Sulphate.....	≤10 ppm		
Refractive index at 20°C.1.4343 ÷ 1.4403		Acidity (acetic acid).....	≤150 ppm	Fe .....	≤5 ppm		

Code	Size	Packaging	Notes
444307	1 l	Glass bottle	
444308	25 kg	Combined drum	
444309	190 kg	Combined drum	



## p-Dimethylaminobenzaldehyde

• p-Dimetilaminobenzaldeide • p-Diméthylaminobenzaldéhyde • p-Dimetilaminobenzaldehydo  
• p-Dimethylaminobenzaldehyd

Synonym:  
*Ehrlich's reagent*

(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CHO  
Molecular Weight: 149,19  
CAS: 100-10-7  
EEC-N: 202-819-0



### Warning

H319-H317-H412  
P261-P264-P280a-P305+P351+P338-P333+P313-  
P337+P313

## p-Dimethylaminobenzaldehyde > RPE - For analysis

**RPE**

Description .....	Yellow or beige crystalline powder, chunk or flakes	Identification .....	Positive	Free acidity .....	≤ 1 %
		Melting point.....	74 ± 2 ° C	Assay (non-aqueous medium) .....	≥ 97.5 %

Code	Size	Packaging	Notes
444604	100 g	Plastic bottle	
444603	250 g	Plastic bottle	



## p-Dimethylaminobenzylidenerhodanine

• p-Dimetilaminobenzalrodanina • p-Diméthylaminobenzalrhodanine • p-Dimetilaminobenzilidenrodanina • p-Diméthylaminobenzalrhodanine

(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CH:CSC:SNHCO  
Molecular Weight: 264,37  
CAS: 536-17-4  
EEC-N: 208-625-2



### Warning

H302  
P264-P270-P301+P312a-P330-P501a

## p-Dimethylaminobenzylidenerhodanine > RPE - For analysis

**RPE**

Description .....	Red powder	Assay (HClO <sub>4</sub> ) .....	≥ 98.5 %	solution
Identification .....	Positive	Solubility (0,03% in acetone).....	Clear orange	

Code	Size	Packaging	Notes
444678	5 g	Glass bottle	

**Acid-base indicator (pH 2,9÷4,0)**



## N,N-Dimethylformamide

• N,N-Dimetilformamide • N,N-Diméthylformamide • N,N-Dimetil formamida • N,N-Dimethylformamid

Synonym:  
*DMF*

(CH<sub>3</sub>)<sub>2</sub>NOCH  
Molecular Weight: 73,09  
CAS: 68-12-2  
EEC-N: 200-679-5

### Classification transport

ONU: 2265  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H312-H332-H319-H360D-HA26  
P210-P241-P280-P303+P361+P353-P304+P340-  
P305+P351+P338

## N,N-Dimethylformamide > RS - For HPLC - Isocratic Grade

**RS**

Appearance .....	Clear colourless liquid	Non volatile residue.....	≤ 0.0005 % m/m	UV transmittance at 270 nm .....	≥ 30 %	UV transmittance at 320 nm .....	≥ 97 %
Colour .....	≤ 10 Apha	Assay (GC) (on anhydrous) .....	≥ 99.9 %	UV transmittance at 275 nm .....	≥ 60 %		
Water content (K.F.) .....	≤ 0.03 % m/m	Free acid (as CH <sub>3</sub> COOH).....	≤ 0.003 % m/m	UV transmittance at 300 nm .....	≥ 90 %		

Code	Size	Packaging	Notes
444981	1 l	Glass bottle	
444982	2.5 l	Glass bottle	

**N,N-Dimethylformamide > RS - For Headspace chromatography**

RS

Description .....	Clear liquid	Water (K.F.) .....	≤200 ppm	At 275 nm .....	≥ 55 %	µg/g
Colour (APHA) .....	≤10	Residue on evaporation .....	≤10 ppm	at 300 nm .....	≥ 85 %	Residual solvent of class 1(acc. to ICH) . ≤ 1
Identification .....	Positive	Assay (GLC) .....	≥99.99 %	at 320 nm .....	≥ 95 %	µg/g
Density at 20° C .....	0.945 ÷ 0.955	UV cut off.....	≤ 269 nm	Residual solvent of class 2(acc. to ICH)≤ 10		
Refractive index at 20°C.....	1.428 - 1.432	U.V. Transmittance		at 270 nm .....	≥ 20 %	Residual solvent of class 3(acc. to ICH)≤ 50
Boiling point.....	152.0 ÷ 154.0 ° C					

Code	Size	Packaging	Notes
444991	1 l	Glass bottle	

**N,N-Dimethylformamide > RS - ATRASOL - For traces analysis**

RS

Appearance .....	Clear liquid	Colour .....	≤ 10 Hazen	Free acid (as HCOOH) .....	≤ 20 mg/Kg	Retention time range before DMF
Refractive index at 20°C.....	1.428 - 1.432	Water content (K.F.) .....	≤ 200 mg/Kg	Free alkali as HN(CH <sub>3</sub> ) <sub>2</sub> .....	≤ 10 mg/Kg	
Density d20/4 .....	0.945 - 0.955	Non volatile residue.....	≤ 10 mg/Kg	GC-FID.Individual. peak (hexane).....	≤ 3 mg/l	

Code	Size	Packaging	Notes
P0343216	1 l	Glass bottle	
P0343221	2.5 l	Glass bottle	

**N,N-Dimethylformamide > RS - PESTIPUR - For pesticide analysis**

RS

Refractive index at 20°C.....	1.428 - 1.432	Colour .....	≤ 10 Hazen	Non volatile residue .....	≤ 10 mg/Kg	Retention time trichlorobenzene to mirex
Water content (K.F.) .....	≤ 500 mg/Kg	Assay (GC) .....	≥ 99.8 %	GC-ECD.Individual peak (Lindane) ..	≤ 3 ng/l	

Code	Size	Packaging	Notes
444941	1 l	Glass bottle	
444942	2.5 l	Glass bottle	

**For chlorinated compounds analysis****N,N-Dimethylformamide > RS - SPECTROSOL - For optical spectroscopy**

RS

Description .....	Clear liquid	Boiling point.....	152.0 ÷ 154.0 ° C	Assay (GLC) .....	≥99.9 %	at 320 nm .....	≥96 %
Colour (APHA) .....	≤10	Water (K.F.) .....	≤400 ppm	U.V. Transmittance		at 330 nm .....	≥98 %
Identification .....	Positive	Residue on evaporation .....	≤10 ppm	at 270 nm .....	≥28 %		
Density at 20° C .....	0.945 ÷ 0.955	Acidity or alkalinity.....	≤0.001 meq/g	at 280 nm .....	≥72 %		
Refract. index at 25° C... 1.4224 ÷ 1.4314		Methyl alcohol.....	≤100 ppm	at 300 nm .....	≥90 %		

Code	Size	Packaging	Notes
444957	1 l	Glass bottle	
444956	2.5 l	Glass bottle	

**N,N-Dimethylformamide > RS - Anhydrous - For analysis**

RS

Appearance .....	Clear liquid	Colour .....	≤ 10 Hazen	Non volatile residue .....	≤ 20 mg/Kg	Assay (GC) .....	≥ 99.9 %
Identification (IR).....	Conform	Water content (K.F.) .....	≤ 50 mg/Kg	Free acid (as HCOOH).....	≤ 20 mg/Kg	Methanol .....	≤ 100 mg/Kg
Refractive index at 20°C.....	1.428 - 1.432	Density d20/4 .....	0.945 - 0.955	Free alkali as HN(CH <sub>3</sub> ) <sub>2</sub> .....	≤ 10 mg/Kg	Iron (Fe) .....	≤ 5 mg/Kg

Code	Size	Packaging	Notes
P0341010	200 ml	Bottle with septum	
P03410T10	200 ml	Bottle with septum	On molecular sieves 4A
P0341016	1 l	Glass bottle	
P03410T16	1 l	Glass bottle	On molecular sieves 4A
P0341021	2.5 l	Glass bottle	



## N,N-Dimethylformamide > RS - For peptide synthesis

**RS**

Appearance .....	Clear colourless liquid	Bromophenol blue test.....	Conform	Non volatile residue .....	≤ 15 mg/Kg	Iron (Fe).....	≤ 0.05 mg/Kg
Colour .....	≤ 10 Hazen	Amines content .....	≤ 5 mg/Kg	Copper (Cu) .....	≤ 0.05 mg/kg	Nickel (Ni) .....	≤ 0.05 mg/kg
Refractive index at 20°C.....	1.428 - 1.432	Assay (GC) .....	≥ 99.9 %	Cadmium (Cd).....	≤ 0.05 mg/Kg	Lead (Pb).....	≤ 0.1 mg/Kg
Water content (K.F.).....	≤ 300 mg/Kg	Methanol .....	≤ 100 mg/Kg	Chromium (Cr) .....	≤ 0.05 mg/Kg		

Code	Size	Packaging	Notes
P0343516	1 l	Glass bottle	
P0343521	2.5 l	Glass bottle	
P0343522	5 l	Plastic tank	
P0343541	10 l	Plastic tank	
P0343549	25 l	Plastic drum	
P0343550	25 l	Polythene-metal drum	
P0343567	200 l	Plastic drum	

## N,N-Dimethylformamide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Clear liquid	Refract. index at 25° C ...	1.4224 ÷ 1.4314	Chloride.....	≤10 ppm	Fe .....	≤0.05 ppm
Colour (APHA) .....	≤15	Boiling point.....	152.0 ÷ 154.0 ° C	Heavy metals (Pb).....	≤1 ppm	Ni .....	≤0.02 ppm
Identification (I.R.).....	Conform	Water (K.F.) .....	≤0.03 %	Sulphate .....	≤10 ppm	Pb .....	≤0.1 ppm
Water miscibility .....	Conform	Residue on evaporation .....	≤20 ppm	Cd .....	≤0.05 ppm	Assay (GLC) .....	≥99.9 %
Chloroform miscibility .....	Complete	Acidity (formic acid).....	≤20 ppm	Cr .....	≤0.02 ppm	Methyl alcohol.....	≤ 100 ppm
Density at 20° C .....	0.949 ÷ 0.952	Alcalinity (NH3).....	≤20 ppm	Cu .....	≤0.02 ppm		

Code	Size	Packaging	Notes
444926	1 l	Glass bottle	
444923	2.5 l	Glass bottle	
444928	20 kg	Drum	
444925	190 kg	Metal drum	

## N,N-Dimethylformamide > RE - Pure

**RE**

Description .....	Clear colourless liquid	Density at 20°C .....	0.945 ÷ 0.950	Residue on evaporation .....	≤ 50 ppm	Free acid (as HCOOH).....	≤ 0.0020 %
Identification .....	Positive	Refractive index at 20°C:	1.4229 ÷ 1.4329	Water (K.F.) .....	≤ 0.03 %	Free alkali as HN(CH3)2.....	≤ 0.0010 %
Colour .....	≤ 10 APHA	Boiling point.....	152.0 ÷ 154.0 °C	Methyl alcohol.....	≤ 100 ppm	Assay (GLC) .....	≥ 99.9 %

Code	Size	Packaging	Notes
508801	1 l	Glass bottle	
508804	1 l	Plastic bottle	
508802	2.5 l	Glass bottle	
528221	5 l	Plastic tank	
528220	25 l	Metal drum	
508803	200 l	Metal drum	



## N,N-Dimethylformamide-d7

- N,N-Dimethylformamide-d7 • N,N-Diméthylformamide-d7 • N,N-Dimethylformamida-d7
- N,N-Dimethylformamid-d7

Synonym:

- DMF-d7
- Heptadeutero-N,N-dimethylformamide

(CD)<sub>2</sub>NOCD  
 Molecular Weight: 80,14  
 CAS: 4472-41-7  
 EEC-N: 224-745-8

### Classification transport

ONU: 2265  
 Transport Hazard class: 3  
 Packing group III



### Danger

H226-H312-H332-H319-H360D-HA26  
 P210-P241-P280-P303+P361+P353-P304+P340-P305+P351+P338

## N,N-Dimethylformamide-d7 > RS - For NMR - min 99.5%

**RS**

Code	Size	Packaging	Notes
P5189A	2 x 0.75 ml	Glass ampoule	

**For specifications, contact our customer service for a certificate of analysis**

**N,N-Dimethylformamide dimethylacetal**

- N,N-Dimethylformamide dimethylacetal
- N,N-Diméthylformamide diméthylacétal
- N,N-Dimethylformamida dimetilacetal
- N,N-Dimethylformamiddimethylacetal

Synonym:

1,1-Dimethoxy-N,N-dimethylmethanamine

 $(CH_3)_2NCH(OCH_3)_2$ 

Molecular Weight: 119,16

CAS: 4637-24-5

EEC-N: 225-063-3

**Classification transport**

ONU: 1993

Transport Hazard class: 3

Packing group II

**Danger**

H225-H332-H315-H319

P210-P241-P280-P303+P361+P353-P304+P340-P305+P351+P338

**N,N-Dimethylformamide dimethylacetal > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 0.890 - 0.910    Assay (GC) ..... ≥ 97 %  
 Identification ..... Positive    Boiling point ..... 102 - 104 ° C

Code	Size	Packaging	Notes
444901	10 ml	Glass bottle	

**For derivatization**

Dimethylglycol ▶ 1,2-Dimethoxyethane

Dimethylglyoxime disodium salt octahydrate ▶ Diacetyldioxime sodium salt

3,7-Dimethyl-2,6-octadienal ▶ Citral

**N,N'-Dimethylpropylene uree**

- N,N'-Dimethylpropylene urea
- N,N'-Diméthylpropylène urée
- N,N'-Dimetilpropileno urea
- N,N'-Dimethylpropylenharnstoff

Synonym:

DMPU

 $C_6H_{12}N_2O$ 

Molecular Weight: 128,17

CAS: 7226-23-5

EEC-N: 230-625-6

**Danger**

H302-H318-H361f

P264-P280-P301+P312a-P305+P351+P338-P310a-P308+P313

**N,N'-Dimethylpropylene uree > RE - Pure****RE**

Clear, colourless to light yellow liq. . Conform    Refractive index at 20°C.. 1.4883 - 1.4913    Water content (K.F.) ..... ≤ 1000 mg/Kg    Assay (GC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
P8020218	500 ml	Glass bottle	
P8020216	1 l	Glass bottle	
P8020229	5 l	Plastic tank	
P8020248	25 l	Metal drum	
P8020268	200 l	Metal drum	

**Dimethylsulphoxide**

- Dimetilsolfossido
- Diméthylsulfoxyde
- Dimetilsulfóxido
- Dimethylsulfoxyd

Synonym:

- Methyl sulfoxide
- DMSO

 $CH_3SOCH_3$ 

Molecular Weight: 78,13

CAS: 67-68-5

EEC-N: 200-664-3

**Dimethylsulphoxide > RS - For HPLC - Isocratic Grade****RS**

Appearance ..... Clear colourless liquid    Assay (GC) (on anhydrous) ..... ≥ 99.95 %    UV transmittance at 290 nm ..... ≥ 70 %    98 %  
 Colour ..... ≤ 10 Apha    Free acid ..... ≤ 0.0005 meq/g    UV transmittance at 310 nm ..... ≥ 90 %  
 Water content (K.F.) ..... ≤ 0.04 % m/m    UV transmittance at 263 nm ..... ≥ 10 %    UV transmittance at 330 nm ..... ≥ 95 %  
 Non volatile residue ..... ≤ 0.0005 % m/m    UV transmittance at 270 nm ..... ≥ 40 %    UV transmittance from 350 nm to 400 nm ≥

Code	Size	Packaging	Notes
445141	1 l	Glass bottle	
445142	2.5 l	Glass bottle	

## Dimethylsulphoxide > RS - For Headspace chromatography

**RS**

Description .....	Clear liquid	Assay (GLC) .....	≥ 99.99 %	at 350 nm .....	≥ 95 %	µg/g
Identification .....	Positive	UV cut off.....	≤ 265 nm	at 400 nm .....	≥ 98 %	Residual solvent of class 3(acc. to ICH) ≤ 50 µg/g
Density at 20° C .....	1.100 - 1.104	U.V. Transmittance		GC/HS		µg/g
Water (K.F.) .....	≤ 200 ppm	at 268 nm .....	≥ 30 %	Residual solvent of class 1(acc. to ICH) .	≤ 1	
Refractive index at 20°C.....	1.477 - 1.480	at 275 nm .....	≥ 60 %	µg/g		
Residue on evaporation .....	≤ 2 ppm	At 300 nm .....	≥ 85 %	Residual solvent of class 2(acc. to ICH) ≤ 10		

Code	Size	Packaging	Notes
445121	1 l	Glass bottle	

## Dimethylsulphoxide > RS - ATRASOL - For traces analysis

**RS**

Appearance .....	Clear colourless liquid	Water content (K.F.) .....	≤ 200 mg/Kg	Non volatile residue .....	≤ 2 mg/Kg
Refractive index at 20°C.....	1.477 - 1.481	Colour .....	≤ 10 Hazen	GC-FID. Individ. peak (hexane).....	≤ 3 mg/l
Density d20/4 .....	1.096 - 1.106	Assay (GC) .....	≥ 99.98 %	Retention time range before DMSO	

Code	Size	Packaging	Notes
P0353216	1 l	Glass bottle	
P0353221	2.5 l	Glass bottle	

## Dimethylsulphoxide > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.

**RS**

Description .....	Clear colourless liquid	Residue on evaporation .....	≤ 10 ppb	at 365 nm .....	≤ 2 ppb	U.V. Transmittance
Identification .....	Positive	Acidity .....	≤ 0.0005 meq/g	Dimethylsulphone.....	≤ 0.1 %	at 265 nm .....
Density at 20° C .....	1.100 ÷ 1.104	Alcalinity .....	≤ 0.0002 meq/g	UV Absorbance at 262 nm .....	≤ 1.00 AU	at 275 nm .....
Refractive index at 20°C.....	1.478 ÷ 1.479	Assay (GLC) .....	≥ 99.8 %	UV Absorbance at 270 nm .....	≤ 0.46 AU	at 290 nm .....
Melting point.....	≥ 18.3 °C	Fluorescence		UV Absorbance at 290 nm .....	≤ 0.16 AU	at 315 nm .....
Water (K.F.) .....	≤ 500 ppm	at 254 nm .....	≤ 2 ppb	UV Absorbance from 340 nm .....	≤ 0.01 AU	at 340 nm .....

Code	Size	Packaging	Notes
445112	1 l	Glass bottle	
445111	2.5 l	Glass bottle	

## Dimethylsulphoxide > RS - Anhydrous - For analysis

**RS**

Appearance .....	Clear liquid	Colour .....	≤ 10 Hazen	Density d20/4 .....	1.096 - 1.106	Assay (GC) .....	≥ 99.8 %
Identification .....	Conform	Refractive index at 20°C.....	1.477 - 1.481	Water content (K.F.) .....	≤ 50 mg/Kg	Dimethylsulphone.....	≤ 0.1 %

Code	Size	Packaging	Notes
508111	2.5 l	Glass bottle	

## Dimethylsulphoxide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.4765 ÷ 1.4825	Residue on evaporation .....	≤ 50 ppm	Sulphate .....	≤ 50 ppm
Identification .....	Positive	Boiling point.....	188.5 ÷ 189.5 °C	Acidity .....	≤ 0.001 meq/g	Assay (GLC) .....	≥ 99.9 %
Ready carbonizable substances.....	Conform	Melting point.....	18.3 ÷ 18.7 °C	Chloride.....	≤ 5 ppm		
Density at 20° C .....	1.096 ÷ 1.106	Water (K.F.) .....	≤ 0.05 %	Heavy metals (Pb).....	≤ 20 ppm		

Code	Size	Packaging	Notes
445103	1 l	Glass bottle	
445106	2.5 l	Glass bottle	
445107	15 kg	Plastic tank	
445101	25 kg	Plastic tank	

## Dimethylsulphoxide > ERBApharm - According to pharmacopoeia: Ph.Eur.

**ERBApharm**

Appearance ..	Colourless liquid or colourless crystals	Refractive index at 20°C.....	1.478 - 1.480	Free acid (ml NaOH 0.01N) .....	≤ 5.0 ml	UV Absorbance at 275 nm .....	≤ 0.3 AU
Water solubility.....	Miscible	Identification C (IR) .....	Conform	Solidification point.....	≥ 18.3 °C	UV Absorbance at 285 nm .....	≤ 0.2 AU
Ethanol solubility .....	Miscible	Water content (K.F.) .....	≤ 0.2 % m/m	Assay (GC) .....	≥ 99.9 %	UV Absorbance at 295 nm .....	≤ 0.2 AU
		Density d20/20 .....	1.100 - 1.104	Related substances (GC) .....	Conform	UV spectrum 270 - 350 nm .....	Smooth

Code	Size	Packaging	Notes
P0355016	1 l	Glass bottle	
P0355041	10 l	Plastic tank	
P0355049	25 l	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Dimethylsulphoxide > RE - Pure**

RE

Description .....	Clear colourless liquid	Assay (GC) .....	≥ 99.8 %	Boiling point .....	188 ÷ 190 °C	Dimethylsulphone .....	≤ 0.1 %
Water content (K.F.) .....	≤ 1000 mg/Kg	Density at 20°C .....	1.096 ÷ 1.106	Acidity .....	≤ 100 ppm	Assay (GLC) .....	≥ 99.8 %
Identification .....	Positive	Refractive index at 20°C .....	1.4765 ÷ 1.4825	Water (K.F.) .....	≤ 0.1 %		
Colour .....	≤ 10 APHA	Non volatile residue .....	≤ 50 mg/Kg	Residue on evaporation .....	≤ 50 ppm		

Code	Size	Packaging	Notes
P03502T10	200 ml	Bottle with septum	On molecular sieves 4A
508001	1 l	Glass bottle	
P03502T16	1 l	Glass bottle	On molecular sieves 4A
508002	2.5 l	Glass bottle	
P03502T21	2.5 l	Glass bottle	On molecular sieves 4A
528335	5 l	Plastic tank	
P0350239	10 l	Plastic tank	
P0350242	20 l	Plastic tank	
P0350266	200 l	Combined drum	

**Dimethylsulphoxide-d6**

• Dimetilsolfossido-d6 • Diméthylsulfoxyde-d6 • Dimetilsulfóxido-d6 • Dimethylsulfoxid-d6

Synonym:  
Hexadeuterodimethyl sulfoxide

CD<sub>3</sub>SOCD<sub>3</sub>  
Molecular Weight: 84,18  
CAS: 2206-27-1  
EEC-N: 218-617-0

**Dimethylsulphoxide-d6 > RS - For NMR - min 99.96%**

RS

Code	Size	Packaging	Notes
P5220	10 x 0.6 ml	Glass ampoule	
P5229	10 x 0.75 ml	Glass ampoule	

**Hygroscopic product. Store well sealed in a dry place. For specifications, contact our customer service for a certificate of analysis s**

**Dimethylsulphoxide-d6 > RS - For NMR - min 99.8%**

RS

Code	Size	Packaging	Notes
P5200	10 x 0.6 ml	Glass ampoule	
P5209	10 x 0.75 ml	Glass ampoule	
P5204A	10 ml	Glass bottle	
P5204S	5 x 10 ml	Bottle with septum	
P5205	25 ml	Glass bottle	
P5206	100 ml	Glass bottle	

**Hygroscopic product. Store well sealed in a dry place. For specifications, contact our customer service for a certificate of analysis s**

**Dimethylsulphoxide-d6 + 0.03% TMS**

• Dimetilsolfossido-d6 + 0.03% TMS • Diméthylsulfoxyde-d6 + 0.03% TMS  
• Dimetilsulfóxido-d6 + 0.03% TMS • Dimethylsulfoxid-d6 + 0.03% TMS

Synonym:  
Hexadeuterodimethyl sulfoxide

CD<sub>3</sub>SOCD<sub>3</sub>  
Molecular Weight: 84,18  
CAS: 2206-27-1  
EEC-N: 218-617-0

**Dimethylsulphoxide-d6 + 0.03% TMS > RS - For NMR - min 99.95%**

RS

Code	Size	Packaging	Notes
P5541	10 x 0.75 ml	Glass ampoule	
P5545	25 ml	Glass bottle	

**Hygroscopic product. Store well sealed in a dry place. For specifications, contact our customer service for a certificate of analysis s**

## Dimethylsulphoxide-d6 + 0.03% TMS > RS - For NMR - min 99.8%

**RS**

Code	Size	Packaging	Notes
P5602	10 x 0.6 ml	Glass ampoule	
P5605	25 ml	Glass bottle	

**Hygroscopic product. Store well sealed in a dry place. For specifications, contact our customer service for a certificate of analysis**



## Dimidium bromide

• Dimidio bromuro • Dimidium bromure • Dimidio bromuro • Dimidiombromid

Synonym:

- 3,8-Diamino-5-methyl-6-phenylphenanthridinium bromide
- Trypadine

$C_{20}H_{18}BrN_3$   
Molecular Weight: 380,29  
CAS: 518-67-2  
EEC-N: 208-256-7



### Warning

H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

## Dimidium bromide > RPE - For analysis

**RPE**

Description .....Red-brown powder      Loss on drying .....≤ 5 %      Absorption (A1%/1cm;1 max; methanol)..... 168 - 177  
Identification .....Positive      Absorption Maximum.....523 - 528 nm      Assay .....≥ 98 %

Code	Size	Packaging	Notes
445232	1 g	Glass bottle	
445231	5 g	Glass bottle	
445233	25 g	Glass bottle	

**For the determination of surfactants**



## 2,4-Dinitrochlorobenzene

• 2,4-Dinitrochlorobenzene • 2,4-Dinitrochlorobenzène • 2,4-Dinitro-1-clorobenceno • 2,4-Dinitrochlorbenzol

Synonym:

- DNCB
- 1-Chloro-2,4-dinitrobenzene

$(NO_2)_2C_6H_3Cl$   
Molecular Weight: 202,55  
CAS: 97-00-7  
EEC-N: 202-551-4

### Classification transport

ONU: 3441  
Transport Hazard class: 6.1  
Packing group II



### Danger

H301-H311-H331-H373-H410  
P271-P304+P340-P311a-P330-P361+P364-  
P403+P233

## 2,4-Dinitrochlorobenzene > RE - Pure

**RE**

Description .....Yellow crystal. powder      Melting point..... 48 ÷ 52 ° C      Assay (argentimetric) .....≥98 %  
Identification .....Positive      Residue on ignition .....≤0.1 %

Code	Size	Packaging	Notes
445421	250 g	Glass bottle	



## 2,4-Dinitrophenylhydrazine (with 30% of water)

• 2,4-Dinitrofenilidrazina (con 30% di acqua) • 2,4-Dinitrofénylhydrazine (avec 30% d'eau) • 2,4-Dinitrofenilhidracina (con 30% de agua)  
• 2,4-Dinitrophenylhydrazin (mit 30% Wasser)

$(NO_2)_2C_6H_3NHNH_2$   
Molecular Weight: 198,14  
CAS: 119-26-6  
EEC-N: 204-309-3

### Classification transport

ONU: 1325  
Transport Hazard class: 4.1  
Packing group II



### Danger

H228-H302-H315-H319-HEU001  
P210-P241-P280-P305+P351+P338-P332+P313-  
P337+P313

## 2,4-Dinitrophenylhydrazine (with 30% of water) > RPE - For analysis

**RPE**

Description .....Reddish powder      Melting point..... 198 ÷ 201 ° C      Residue on ignition ..... ≤ 500 ppm  
Identification .....Positive      Water (K.F.) ..... 30 ÷ 35 %      Assay (HPLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
445524	100 g	Glass bottle	

**1,4-Dioxane**

• 1,4-Diossano • 1,4-Dioxane • 1,4-Dioxano • 1,4-Dioxan

Synonym:  
Diethylene oxideOCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>  
Molecular Weight: 88,11  
CAS: 123-91-1  
EEC-N: 204-661-8**Classification transport**  
ONU: 1165  
Transport Hazard class: 3  
Packing group II**Danger**H225-H319-H351-H335-HEU019-HEU066  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233**1,4-Dioxane > RS - For HPLC - Isocratic grade - Stabilized with BHT****RS**

Description .....	Clear liquid	Water (K.F.) .....	≤ 250 ppm	Alcalinity (NH <sub>3</sub> ) .....	≤ 3 ppm	At 245 nm .....	≤ 0.229 AU
Colour .....	≤ 20 APHA	Residue on evaporation .....	≤ 5 ppm	Assay (CPG) .....	≥ 99.5 %	Transmittance	
Identification (I.R.) .....	Positive	Acidity (acetic acid) .....	≤ 50 ppm	Absorbance		At 270 nm .....	≥ 80 %

Code	Size	Packaging	Notes
443231	1 l	Glass bottle	

**1,4-Dioxane > RS - Anhydrous - For analysis - Stabilized with BHT****RS**

Refractive index at 20°C .....	1.42 - 1.424	Peroxides (as H <sub>2</sub> O <sub>2</sub> ) .....	≤ 50 mg/Kg	Non volatile residue (without stab.)	≤ 10 mg/Kg
Water content (K.F.) .....	≤ 100 mg/Kg	Assay (GC) .....	≥ 99.8 %	Free acid (as CH <sub>3</sub> COOH) .....	≤ 50 mg/Kg
Colour .....	≤ 10 Hazen	Stabilizer (ionol) .....	20 - 80 mg/Kg		

Code	Size	Packaging	Notes
P0361010	200 ml	Bottle with septum	
P0361016	1 l	Glass bottle	
P0361021	2.5 l	Glass bottle	

**1,4-Dioxane > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611032001	50 ml	Glass bottle	Dioxane stock solution 1.0 mg/ml Ref Ph.Eur 1032001
611032003	50 ml	Glass bottle	Dioxane solution R1 0.1 mg/ml Ref Ph.Eur 1032003
611032002	100 ml	Glass bottle	Dioxane solution 0.5 mg/ml Ref Ph.Eur 1032002

**1,4-Dioxane > RPE - For analysis - ACS - Reag.Ph.Eur. - Reag.USB - Stabilized with BHT****RPE**

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 500 ppm	Total sulphur .....	≤ 0.2 ppm	Na .....	≤ 0.5 ppm
Identification .....	Positive	Residue on evaporation .....	≤ 20 ppm	Ca .....	≤ 0.5 ppm	Pb .....	≤ 0.05 ppm
Density at 20° C .....	1.032 ÷ 1.036	Acetal .....	≤ 50 ppm	Cu .....	≤ 0.02 ppm	Zn .....	≤ 0.2 ppm
Refractive index at 20°C. 1.4194 ÷ 1.4254		Acidity .....	≤ 0.0016 meq/g	Fe .....	≤ 0.2 ppm	Assay (GLC) .....	≥ 99.8 %
Boiling point .....	100.5 ÷ 101.5 °C	Total phosphorus .....	≤ 0.1 ppm	K .....	≤ 0.1 ppm	Peroxides (H <sub>2</sub> O <sub>2</sub> ) .....	≤ 50 ppm
Freezing point .....	11.5 ÷ 12.1 °C	Total silicon .....	≤ 0.05 ppm	Mg .....	≤ 0.05 ppm	Carbonyl (as HCHO) .....	≤ 100 ppm




Code	Size	Packaging	Notes
443202000	1 l	Glass bottle	
443206000	2.5 l	Glass bottle	
443204000	5 l	Plastic tank	
443201000	28 kg	Metal drum	
443205	200 kg	Metal drum	

**1,4-Dioxane > RE - Pure - Stabilized with BHT****RE**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4174 ÷ 1.4274	Acetal .....	≤ 0.2 %	Stabilized with BHT .....	20 ÷ 80 ppm
Identification .....	Positive	Boiling point .....	100.3 ÷ 101.8 °C	Acidity (acetic acid) .....	≤ 50 ppm	
Colour .....	≤ 10 APHA	Water (K.F.) .....	≤ 0.1 %	Peroxides (H <sub>2</sub> O <sub>2</sub> ) .....	≤ 50 ppm	
Density at 20° C .....	1.031 ÷ 1.037	Residue on evaporation .....	≤ 50 ppm	Assay (GLC) .....	≥ 99.5 %	

Code	Size	Packaging	Notes
338001	1 l	Glass bottle	
338003	2.5 l	Glass bottle	
338002	5 l	Plastic tank	
338005	28 kg	Metal drum	
338004	25 l	Plastic tank	



	<b>1,3-Dioxolane</b>	Synonym: • Ethylene glycol methylene ether • Formaldehyde ethylene acetal	
	• 1,3-Diossolano • 1,3-Dioxolane • 1,3-Dioxolano • 1,3-Dioxolan		
$C_3H_6O_2$ Molecular Weight: 74,08 CAS: 646-06-0 EEC-N: 211-463-5	<b>Classification transport</b> ONU: 1166 Transport Hazard class: 3 Packing group II	 	<b>Danger</b> H225-H319 P210-P241-P280-P303+P361+P353- P305+P351+P338-P337+P313

**1,3-Dioxolane > RE - Pure****RE**

Refractive index at 20°C ..... 1.3980 - 1.4020    Colour ..... ≤ 10 Hazen    Peroxides (as H2O2) ..... ≤ 10 mg/Kg  
Water content (K.F.) ..... ≤ 150 mg/Kg    Assay (GC) ..... ≥ 99.9 %    Stabilizer (ionol) ..... ~75 mg/kg

Code	Size	Packaging	Notes
P8030216	1 l	Glass bottle	
P8030222	5 l	Plastic tank	
P8030249	25 l	Plastic tank	
P8030268	200 l	Metal drum	

	<b>Diphenylamine solution 1% in sulfuric acid</b>	Synonym: • Difenilamina soluzione 1% in acido solforico • Diphénylamine solution 1% dans l'acide sulfurique • Difenilamina solución 1% en ácido sulfúrico • Diphenylaminlösung 1% in Schwefelsäure	
	(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> NH Molecular Weight: 169,23 CAS: 122-39-4	<b>Classification transport</b> ONU: 1760 Transport Hazard class: 8 Packing group II	

**Diphenylamine solution 1% in sulfuric acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611032109	100 ml	Glass bottle	Ref Ph.Eur 1032101
611032101	1 l	Glass bottle	Ref Ph.Eur 1032101
611032102	1 l	Glass bottle	Diphenylamine solution R1 Ref Ph.Eur 1032102

**Storage: protected from light**

	<b>4-Diphenylaminesulfonic acid sodium salt</b>	Synonym: • 4-(Phenylamino)benzene sulfonic acid sodium salt • Sodium diphenylamine-4-sulfonate	
	• 4-Difenilamina solfonato sodico • 4-Diphénylamine sulfonate sodique • 4-Difenilamina sulfonato sal sódica • 4-Diphenylamin-Natriumsulfonat		
$C_6H_5NHC_6H_4SO_3Na$ Molecular Weight: 271,27 CAS: 6152-67-6 EEC-N: 228-165-6			<b>Warning</b> H315-H319-H335 P261-P271-P304+P340-P305+P351+P338- P332+P313-P403+P233

**4-Diphenylaminesulfonic acid sodium salt > RPE - For analysis - ACS****RPE**

Description ..... Whitish powder    Identification ..... Positive    Sensitivity as indicat. .... Conform

Code	Size	Packaging	Notes
443671	10 g	Glass bottle	

**Redox indicator. Purple / Red - Clear**

**sym-Diphenylcarbazide**

• sim-Difenilcarbazide • Sym-Diphénylcarbazide • sim-Difenilcarbaida • sym-Diphenylcarbazid

## Synonym:

- 1,5-Diphenylcarbazide
- 1,5-Diphenylcarbohydrazide

$C_6H_5NHNHCONHNHC_6H_5$   
 Molecular Weight: 242,28  
 CAS: 140-22-7  
 EEC-N: 205-403-7

**sym-Diphenylcarbazide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... White powder      Melting point ..... 173 ÷ 176 ° C      Chromate sensitivity ..... Conform      Assay (HPLC) ..... ≥ 97.5 %  
 Identification ..... Positive      Loss on drying ..... ≤ 1 %      Sulphated ash ..... ≤ 0.05 %

Code	Size	Packaging	Notes
443752	25 g	Glass bottle	
443754	100 g	Glass bottle	

**Redox indicator****sym-Diphenylcarbazone**

• sim-Difenilcarbazona • Sym-Diphénylcarbazone • sim-Difenilcarbazona • sym-Diphenylcarbazon

## Synonym:

Phenylazoformic acid 2-phenylhydrazide

$C_6H_5N:NCONHNHC_6H_5$   
 Molecular Weight: 240,27  
 CAS: 538-62-5  
 EEC-N: 208-698-0

**sym-Diphenylcarbazone > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... Orange crystalline powder      Acetone solubility ..... Conform      Residue on ignition ..... ≤ 0.1 %  
 Identification ..... Positive      Mercury sensitivity ..... Conform

Code	Size	Packaging	Notes
443801	10 g	Glass bottle	

**Contains sym-Diphenylcarbazide. Redox indicator****Diphenylthiocarbazone**

• Difeniltiocarbazone • Diphénylthiocarbazone • Difeniltiocarbazona • Diphenylthiocarbazon

## Synonym:

Dithizone

$C_6H_5NHNHCSN:NC_6H_5$   
 Molecular Weight: 256,32  
 CAS: 60-10-6  
 EEC-N: 200-454-1

**Warning**

H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

**Diphenylthiocarbazone > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... Black-violet powder      E 620/E 450 nm ..... ≥ 1.55      Residue on ignition ..... ≤ 0.3 %  
 Identification ..... Positive      Heavy metals (Pb) ..... ≤ 20 ppm      Assay (spectrophotom.) ..... ≥ 85.0 %

Code	Size	Packaging	Notes
444053	50 g	Glass bottle	

**2,2'-Dipyridyl**

• 2,2'-Dipiridile • 2,2'-Dipyridyle • 2,2'-Dipiridilo • 2,2'-Dipyridyl

## Synonym:

2,2'-Bipyridine

$C_{10}H_8N_2$   
 Molecular Weight: 156,19  
 CAS: 366-18-7  
 EEC-N: 206-674-4

**Classification transport**

ONU: 2811  
 Transport Hazard class: 6.1  
 Packing group III

**Danger**

H301-H311  
 P264-P280h-P301+P310a-P330-P361+P364-P501a

**2,2'-Dipyridyl > RPE - For analysis****RPE**

Description ..... Polvere crist. quasi bianca      Melting point ..... 69 ÷ 72 ° C      Assay (GLC) ..... ≥ 99.0 %  
 Identification ..... Positive      Iron sensitivity ..... Conform

Code	Size	Packaging	Notes
445958	5 g	Glass bottle	

**Reactive iron and molybdenum**

2,6 - Di-tert-butyl-p-cresol ▶ Butylhydroxytoluene

Direct red 28 ▶ Congo red

Disodium hydrogen phosphate ▶ Sodium phosphate dibasic anhydrous

Disodium hydrogen phosphate dodecahydrate ▶ Sodium phosphate dibasic dodecahydrate

**Dithiooxamide**

• Dithioossammide • Dithiooxamide • Dithiooxamida • Dithiooxamids

$\text{NH}_2\text{C}(\text{S})\text{CSNH}_2$   
 Molecular Weight: 120,2  
 CAS: 79-40-3  
 EEC-N: 201-203-9

**Warning**

H302-H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

**Dithiooxamide > RPE - For analysis****RPE**

Description ..... Red orange crystals      Residue on ignition ..... ≤500 ppm      Assay (ex nitrogen) ..... ≥98 %  
 Identification ..... Positive      Copper sensitivity ..... ≤ 0.05 µg/ml

Code	Size	Packaging	Notes
446008	5 g	Plastic bottle	

Dithizone ▶ Diphenylthiocarbazone

DMF ▶ N,N-Dimethylformamide

DMSO ▶ Dimethylsulphoxide

**1-Dodecanesulfonic acid sodium salt**

• Acido 1-dodecanosulfonico sale sodico • Acide 1-dodecanesulfonique sel sodique  
 • Acido 1-dodecanosulfónico sal sódica • 1-Dodecansulfonsäure-Natriumsalz

Synonym:  
*Sodium 1-dodecanesulfonate*

$\text{CH}_3(\text{CH}_2)_{11}\text{SO}_3\text{Na}$   
 Molecular Weight: 272,39  
 CAS: 2386-53-0

**1-Dodecanesulfonic acid sodium salt > RS - For ion pair chromatography****RS**

Description ..... White crystalline powder      Assay ..... ≥ 99.0 %      At 210 nm ..... ≤ 0.05 AU      At 230 nm ..... ≤ 0.02 AU  
 Water (K.F.) ..... ≤ 1.0 %      Absorbance (5% in water) ..... At 220 nm ..... ≤ 0.03 AU

Code	Size	Packaging	Notes
405881	25 g	Glass bottle	
405882	100 g	Plastic bottle	



### Dodecylbenzenesulphonic acid sodium salt

- Acido dodecilbenzenosulfonico sale sodico • Acide dodécylbenzènesulfonique sel sodique
- Acido dodecilbenzenosulfónico sal sódica • Dodecylbenzolsulfonsäure-Natrium-Salz

Synonym:  
*Sodium dodecylbenzenesulfonate*

$C_{12}H_{25}C_6H_4SO_3Na$   
Molecular Weight: 348,49  
CAS: 25155-30-0  
EEC-N: 246-680-4



**Warning**  
H302  
P264-P270-P301+P312a-P330-P501a

#### Dodecylbenzenesulphonic acid sodium salt > RS - For surfactants detection

**RS**

Description ..... White-yellowish crystalline powder Identification ..... Positive Water ..... < 5.0 % Assay ..... > 83 %

Code	Size	Packaging	Notes
405351	10 g	Glass bottle	
405352	25 g	Glass bottle	

**Minimum 90% biodegradability**

### Dodecyltrimethylammonium bromide

- Dodeciltrimetilammonio bromuro • Dodécyltriméthylammonium bromure • Dodeciltrimetilammonio bromuro
- Dodecyltrimethylammoniumbromid

Synonym:  
*Lauryltrimethylammonium bromide*

$CH_3(CH_2)_{11}N(CH_3)_3Br$   
Molecular Weight: 308,34  
CAS: 1119-94-4  
EEC-N: 214-290-3

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**  
H302-H315-H319-H335-H410  
P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233

#### Dodecyltrimethylammonium bromide > RS - For ion pair chromatography

**RS**

Absorbance UV curve (10%)  
A240nm (1M) ..... ≤ 0.2 AU A250nm (1M) ..... ≤ 0.03 AU A500nm (1M) ..... ≤ 0.02 AU  
A260nm (1M) ..... ≤ 0.02 AU

Code	Size	Packaging	Notes
405941	25 g	Plastic bottle	



### Dysprosium standard solution

- Disproso standard soluzione • Dysprosium solution standard • Disproso, solución patrón • Dysprosium-Standardlösung

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III



#### Dysprosium standard solution > RS - Standard solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
505582	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505585	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

#### Dysprosium standard solution > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
504231	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504233	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504235	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
504237	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

## Dysprosium standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507734	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507500	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

EDTA ▶ Ethylenediaminetetraacetic acid

EDTA disodium salt ▶ Ethylenediaminetetraacetic acid disodium salt

EDTA dipotassium salt dihydrate ▶ Ethylenediaminetetraacetic acid dipotassium salt dihydrate

EDTA potassium and magnesium salt dihydrate ▶ Ethylenediaminetetraacetic acid potassium and magnesium salt dihydrate

EDTA tetrasodium salt tetrahydrate ▶ Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate

EGTA ▶ Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid

**Ehrlich's reagent**

• Ehrlich reattivo • Réactif d'Ehrlich • Ehrlich reactivo • Ehrlich Reagenz

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Danger**H290-H314-H317  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P362+P364**Ehrlich's reagent > RS - For microscopy**

RS

Description ..... Yellow clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
E446302	500 ml	Glass bottle	

**For urobilinogen detection****Eluent sodium bicarbonate**

• Eluente sodio bicarbonato • Eluant sodium dicarbonate • Eluyente sodio dicarbonato • Elutionsmittel Natriumbicarbonat

NaHCO<sub>3</sub>  
Molecular Weight: 84,01  
CAS: 144-55-8**Eluent sodium bicarbonate > RS - Eluent concentrates for ion chromatography**

RS

Code	Size	Packaging	Notes
504534	100 ml	Plastic bottle	0.5 M Sodium bicarbonate
507578	1 l	Plastic bottle	0.5 M Sodium bicarbonate

**Eluent sodium carbonate**• Eluente sodio carbonato • Eluant sodium carbonate • Eluyente sodio carbonato  
• Elutionsmittel Natriumcarbonat**Synonym:**• Calced soda  
• Carbonic acid disodium saltNa<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 84.01  
CAS: 497-19-8

HEU210

**Eluent sodium carbonate > RS - Eluent concentrates for ion chromatography**

RS

Code	Size	Packaging	Notes
504533	100 ml	Plastic bottle	0.5 M Sodium carbonate
507577	1 l	Plastic bottle	0.5 M Sodium carbonate





## Eluent sodium carbonate/sodium bicarbonate

- Eluente sodio carbonato/sodio bicarbonato • Eluant sodium carbonate/sodium bicarbonate • Eluyente sodio carbonato/sodio bicarbonato
- Elutionsmittel Natriumcarbonat / Natriumbicarbonat

HEU210

### Eluent sodium carbonate/sodium bicarbonate > RS - Eluent concentrates for ion chromatography

RS

Code	Size	Packaging	Notes
504530	100 ml	Plastic bottle	0.18 M Sodium carbonate / 0.17 M Sodium bicarbonate
504531	100 ml	Plastic bottle	0.22 M Sodium carbonate / 0.28 M Sodium bicarbonate
504532	100 ml	Plastic bottle	0.35 M Sodium carbonate / 0.1 M Sodium bicarbonate



## Eosin B

- Eosina B • Eosine B • Eosina B • Eosin B

Synonym:

- Acid Red 91
- 4',5'-Dibromo-2',7'-dinitrofluorescein, disodium salt

$C_{20}H_6Br_2N_2Na_2O_9$   
Molecular Weight: 624,09  
CAS: 548-24-3  
EEC-N: 208-943-1

### Eosin B > RPE - For analysis - C.I. 45400

RPE

Description ..... Brown greyish powder Identification ..... Positive Absorbion ind.sensit. .... Conform

Code	Size	Packaging	Notes
446602	25 g	Glass bottle	

**Dye for microscopy (histology). Absorbance and fluorescence indicator**



## Eosin Y

- Eosina Y • Eosine Y • Eosina Y • Eosin Y

Synonym:

- Acid Red 87
- 2',4',5',7'-Tetrabromofluorescein disodium salt

$C_{20}H_6Br_4Na_2O_5$   
Molecular Weight: 691,86  
CAS: 17372-87-1  
EEC-N: 241-409-6



**Warning**

H312-H332  
P261-P271-P280h-P304+P340-P312a-P501a

### Eosin Y > RS - For microscopy - C.I. 45380

RS

Description ..... Red-brown powder Loss on drying ..... ≤ 10 % Assay ..... 80.00 ÷ 88.00 %  
Identification ..... Positive Sens. as absorption indicator ..... Conform

Code	Size	Packaging	Notes
446632	25 g	Glass bottle	
446634	100 g	Plastic bottle	

**Dye for histology**



## Eosin Y 1% solution aqueous

- Eosina Y 1% soluzione acquosa • Eosine Y 1% solution aqueuse • Eosina Y 1% solución acuosa
- Eosin Y 1% ige wässrige Lösung

Synonym:

- Acid Red 87
- 2',4',5',7'-Tetrabromofluorescein disodium salt

$C_{20}H_6Br_4Na_2O_5$   
Molecular Weight: 691,86  
CAS: 17372-87-1

HEU210

### Eosin Y 1% solution aqueous > RS - For histology

RS

Description ..... Brown liquid Identification ..... Positive Maximum absorption ..... 515÷518 nm A 1%/1cm (0.005 g/l) ..... 1200÷1400 nm

Code	Size	Packaging	Notes
446644	1 l	Plastic bottle	In Vitro Diagnostic Medical Device

**Eosin Y 0.5% solution alcoholic**

• Eosina Y 0.5% soluzione alcolica • Eosine Y 0.5% solution alcoolique • Eosina Y 0.5% solución alcohólica  
• Eosin Y 0.5% alkoholische Lösung

Synonym:

• Acid Red 87  
• 2',4',5',7'-Tetrabromofluorescein disodium salt

$C_{20}H_6Br_4Na_2O_5$   
Molecular Weight: 691,86  
CAS: 17372-87-1

**Classification transport**

ONU: 1170  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

**Eosin Y 0.5% solution alcoholic > RS - For microscopy**

RS

Code	Size	Packaging	Notes
446664	1 l	Plastic bottle	In Vitro Diagnostic Medical Device

**Erbium standard solution**

• Erblio standard soluzione • Erbium solution standard • Erblio, solución patrón • Erbium-Standardlösung

**Classification transport**

ONU: 2837  
Transport Hazard class: 8  
Packing group III

**Erbium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505592	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505595	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Erbium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504241	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504243	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504245	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
504247	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Erbium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507735	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507501	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Eriochrome black T**

• Nero eriocromo T • Noir ériochrome T • Negro de eriocromo T • Schwarzes Eriochrom T

Synonym:

Mordant Black 11

$C_{20}H_{12}N_3NaO_7S$   
Molecular Weight: 461,39  
CAS: 1787-61-7

HEU210

**Eriochrome black T > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611056801	100 g	Plastic bottle	Ref Ph.Eur 1056801

**Storage: protected from light**

## Eriochrome black T > RPE - For analysis - C.I. 14645

RPE

Description ..... Blackish brown powder Identification ..... Positive Loss on drying ..... ≤ 10 % Sensitivity ..... Conform

Code	Size	Packaging	Notes
464221	10 g	Glass bottle	
464222	25 g	Glass bottle	

**Complexometric indicator**



## Eriochromocyanine R

• Eriocromo cianina R • Eriochrome cyanine R • Eriocromocianina R • Eriochromocyanin R

Synonym:

Chromoxane cyanine R

$C_{23}H_{15}Na_3O_9S$   
Molecular Weight: 536,4  
CAS: 3564-18-9  
EEC-N: 222-641-7



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

## Eriochromocyanine R > RPE - For analysis - C.I. 43820

RPE

Description ..... Red brick powder Identification ..... Positive Aluminium sensitivity ..... ≥1 µg/ml

Code	Size	Packaging	Notes
446811	10 g	Glass bottle	
446812	25 g	Glass bottle	

**For the determination of Al. Complexometric indicator**



## Erythrosin extra B

• Eritrosina extra B • Erythrosine extra B • Eritrosina extra B • Erythrosin extra B

Synonym:

• Acid Red 51  
• 2',4',5',7'-Tetraiodofluorescein disodium salt

$C_{20}H_6I_4O_5Na_2$   
Molecular Weight: 879,87  
CAS: 16423-68-0  
EEC-N: 240-474-8



### Warning

H302  
P264-P270-P301+P312a-P330-P501a

## Erythrosin extra B > RS - For microscopy - C.I. 45430

RS

Description ..... Red brown powder Identification ..... Positive Assorbanza 524-527 nm ..... Conform Assorbidività specifica 1%/1cm ..... 930-1170

Code	Size	Packaging	Notes
446972	25 g	Glass bottle	
446971	100 g	Plastic bottle	

**Dye for histology**



## Esbach's reagent

• Esbach reattivo • Réactif d'Esbach • Esbach reattivo • Esbach-Reagenz

HEU210

## Esbach's reagent > RS - For microscopy

RS

Description ..... Yellow clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
446981	1 l	Plastic bottle	

**For the determination of albumin**

1,2-Ethanediol ► Ethylene glycol

**Ethanol absolute anhydrous**

• Etanolo assoluto anidro • Ethanol absolu anhydre • Etanol absoluto anhidro • Ethanol absolut wasserfrei

Synonym:

*Ethyl alcohol absolute anhydrous*C<sub>2</sub>H<sub>5</sub>OH

Molecular Weight: 46,07

CAS: 64-17-5

EEC-N: 200-578-6

**Classification transport**

ONU: 1170

Transport Hazard class: 3

Packing group II

**Danger**

H225-H319

P210-P241-P280-P303+P361+P353-

P305+P351+P338-P337+P313

**Ethanol absolute anhydrous > RS - For HPLC PLUS Gradient grade**

RS

Description	Clear colourless liquid	Water (K.F.)	≤0.05 %	U.V. Transmittance	At 260 nm	≥ 98 %	
Identification	Positive	Residue on evaporation	≤5 ppm	at 210 nm	≥25 %	≥ 270 nm	≥ 99 %
Density at 20° C	0.7893 ÷ 0.7899	Assay (GLC)	≥99.9 %	at 220 nm	≥50 %	Acetal + acetaldehyde	≤ 10 ppm(v/v)
Refractive index at 20°C	1.3602 ÷ 1.3622	Fluorescence		at 230 nm	≥75 %	HPLC Gradient	
Boiling point	78.3 ÷ 78.8 ° C	at 254 nm	≤2 ppb	At 240 nm	≥ 85 %	At 235 nm	≤ 5 mAU
Acidity or alkalinity	≤0.0002 meq/g	at 365 nm	≤2 ppb	at 250 nm	≥90 %		

Code	Size	Packaging	Notes
412704	500 ml	Glass bottle	
412701	1 l	Glass bottle	Only for Italian market
412703	1 l	Glass bottle PVC coated	Only for Italian market
4127012	1 l	Glass bottle	
4127032	1 l	Glass bottle PVC coated	
412702	2.5 l	Glass bottle	Only for Italian market
4127022	2.5 l	Glass bottle	

**Ethanol absolute anhydrous > RS - For HPLC - Isocratic Grade**

RS

Description	Clear colourless liquid	Acidity or alkalinity	≤0.0002 meq/g	at 210 nm	≥25 %	at 270 nm	≥94 %
Identification	Positive	Water (K.F.)	≤0.05 %	at 220 nm	≥50 %	at 290 nm	≥97 %
Density at 20° C	0.7893 ÷ 0.7899	Residue on evaporation	≤5 ppm	at 230 nm	≥75 %		
Refractive index at 20°C	1.3602 ÷ 1.3622	Assay (GLC)	≥99.9 %	At 240 nm	≥ 80 %		
Boiling point	78.3 ÷ 78.8 ° C	U.V. Transmittance		at 250 nm	≥90 %		

Code	Size	Packaging	Notes
412521	1 l	Glass bottle	Only for Italian market
4125212	1 l	Glass bottle	
412522	2.5 l	Glass bottle	Only for Italian market
4125222	2.5 l	Glass bottle	

**Ethanol absolute anhydrous > RS - SPECTROSOL - For optical spectroscopy**

RS

Description	Clear colourless liquid	Water (K.F.)	≤0.2 %	at 365 nm	≤2 ppb	at 250 nm	≥89 %
Identification	Positive	Residue on evaporation	≤10 ppm	U.V. Transmittance		at 270 nm	≥94 %
Density at 20° C	0.7893 ÷ 0.7899	Assay (GLC)	≥99.8 %	at 210 nm	≥25 %	at 290 nm	≥97 %
Boiling point	78.3 ÷ 78.8 ° C	Fluorescence		at 220 nm	≥50 %		
Acidity or alkalinity	≤0.0002 meq/g	at 254 nm	≤2 ppb	at 230 nm	≥75 %		

Code	Size	Packaging	Notes
414677	1 l	Glass bottle	Only for Italian market
4146772	1 l	Glass bottle	

**Ethanol absolute anhydrous > RS - Anhydrous - For analysis**

RS

Refractive index at 20°C	1.358 - 1.362	Alcohol content (20°C)	≥ 99.9 % V/V	Free acid (as CH <sub>3</sub> COOH)	≤ 10 mg/Kg
Water content (K.F.)	≤ 200 mg/Kg	Non volatile residue	≤ 10 mg/Kg	Aldehydes (as acetaldehyde)	≤ 3 mg/Kg
Colour	≤ 10 Hazen	Assay (GC)	≥ 99.8 %	Esters (as CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub> )	≤ 25 mg/Kg

Code	Size	Packaging	Notes
P013A1010	200 ml	Bottle with septum	
P013A1016	1 l	Glass bottle	
P013A1021	2.5 l	Glass bottle	

## Ethanol absolute anhydrous > RS - VLSI - For electronic use

RS

Code	Size	Packaging	Notes
527681	1 l	Plastic bottle	
527680	2.5 l	Plastic bottle	

For specifications, contact our customer service for a certificate of analysis

## Ethanol absolute anhydrous > RS - RSE - For electronic use

RS

Description	Clear colourless liquid	Chloride	≤0.2 ppm	Ca	≤0.5 ppm	Ni	≤0.01 ppm
Colour (APHA)	≤10	Carbonyl Compounds (CO)	≤10 ppm	Cd	≤0.01 ppm	Pb	≤0.02 ppm
Identification	Positive	Total phosphorus	≤0.1 ppm	Co	≤0.01 ppm	Pt	≤0.05 ppm
Water miscibility	Conform	Heavy metals (Pb)	≤0.2 ppm	Cr	≤0.02 ppm	Sb	≤0.01 ppm
Ready carbonizable substances	Conform	Subst. reducing KMnO4	≤2.5 ppm	Cu	≤0.02 ppm	Sn	≤0.02 ppm
Density at 20° C	0.790 ÷ 0.793	Total sulphur	≤1 ppm	Fe	≤0.1 ppm	Sr	≤0.02 ppm
Boiling point	78.3 ÷ 78.8 ° C	Ag	≤0.02 ppm	Ga	≤0.02 ppm	Ti	≤0.05 ppm
Resistivity	≥0.5 Mohm cm	Al	≤0.05 ppm	In	≤0.02 ppm	Tl	≤0.05 ppm
Assay(alcohol.) at 20°C	≥99.9 %	As	≤0.01 ppm	K	≤0.1 ppm	V	≤0.05 ppm
Water (K.F.)	≤0.1 %	Au	≤0.05 ppm	Li	≤0.02 ppm	Zn	≤0.03 ppm
Residue on evaporation	≤10 ppm	B	≤0.01 ppm	Mg	≤0.1 ppm	Zr	≤0.05 ppm
Acidity (acetic acid)	≤10 ppm	Ba	≤0.1 ppm	Mn	≤0.01 ppm		
Alcalinity (NH3)	≤1 ppm	Be	≤0.02 ppm	Mo	≤0.05 ppm		
Methyl alcohol	≤100 ppm	Bi	≤0.02 ppm	Na	≤0.5 ppm		

Code	Size	Packaging	Notes
414587	1 l	Glass bottle	Only for Italian market
4145872	1 l	Glass bottle	
414583	2.5 l	Glass bottle	Only for Italian market
4145832	2.5 l	Glass bottle	

## Ethanol absolute anhydrous > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description	Clear colourless liquid	Acidity (acetic acid)	≤ 10 ppm	Assay (alcoholometric) at 20°C	≥ 99.9 %v/v	Fe	≤ 0.1 ppm
Colour	≤ 10 APHA	Alcalinity (NH3)	≤ 1 ppm	Volatil impurities	Conform	Mg	≤ 0.1 ppm
Identification (I.R.)	Positive	Isopropyl alcohol	≤ 30 ppm	Al	≤ 0.5 ppm	Mn	≤ 0.02 ppm
Water miscibility	Complete	Methyl alcohol	≤ 50 ppm	B	≤ 0.02 ppm	Ni	≤ 0.02 ppm
Density at 20°C	0.7893 ÷ 0.7899	Benzene	≤ 2 ppm(v/v)	Ba	≤ 0.1 ppm	Pb	≤ 0.1 ppm
Boiling point	78.3 ÷ 78.8 ° C	Carbonyl compounds (CO)	≤ 5 ppm	Ca	≤ 0.5 ppm	Sn	≤ 0.1 ppm
Refractive index at 20°C	1.3602 ÷ 1.3622	Subs. reducing KMnO4	≤ 3 ppm	Cd	≤ 0.05 ppm	Acetal + acetaldehyde	≤ 10 ppm(v/v)
Water (K.F.)	≤ 0.1 %	Heavy metals (Pb)	≤ 1 ppm	Co	≤ 0.02 ppm		
Residue on evaporation	≤ 10 ppm	Absorbance UV (5cm, ref. water)	Conform	Cr	≤ 0.02 ppm		
Substances darkened by H2SO4	Conform	Assay (CPG)	≥ 99.9 %	Cu	≤ 0.02 ppm		

Code	Size	Packaging	Notes
414601	1 l	Plastic bottle	Only for Italian market
414607	1 l	Glass bottle	Only for Italian market
4146012	1 l	Plastic bottle	
4146072	1 l	Glass bottle	
414605	2.5 l	Plastic bottle	Only for Italian market
414608	2.5 l	Glass bottle	Only for Italian market
4146052	2.5 l	Plastic bottle	
4146082	2.5 l	Glass bottle	
414603	5 l	Aluminium can	
414606	5 l	Plastic bottle	
524125	5 l	Plastic tank	
4146032	5 l	Aluminium bottle	Untaxed, for Italian license holders only
4146062	5 l	Plastic bottle	Untaxed, for Italian license holders only
5241252	5 l	Plastic tank	Untaxed, for Italian license holders only
414604	10 l	Plastic tank	
414609	25 l	Plastic tank	
4146092	25 l	Plastic tank	Untaxed, for Italian license holders only
414602	200 l	Plastic drum	
4146022	200 l	Plastic drum	Untaxed, for Italian license holders only

**Ethanol absolute anhydrous > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-BP-JP****ERBApharm**

Description .....	Clear colourless liquid	Residue on evaporation .....	≤ 25 ppm(m/v)	Acetal + acetaldehyde .....	≤ 10 ppm(v/v)	From 270 to 340 nm .....	≤ 0.10 AU
Identification (I.R.) .....	Positive	Assay (alcoholometric) at 15,56°C .....	≥ 99.5 % (v/v)	Benzene .....	≤ 2 ppm(v/v)	235 - 340 nm .....	Smooth curve
Color of solution .....	Pass test	Assay (alcoholometric) at 20°C .....	≥ 99.5 % (v/v)	Total other impurities .....	≤ 300 ppm(v/v)	Origin (BSE/TSE) .....	Vegetable
Clarity of solution .....	Pass test	Acidity or alkalinity .....	≤ 30 ppm	Water (K.F.) .....	≤ 0.1 %	Residual solvents (Current ICH) .....	Conform
Density at 20°C .....	0.790 - 0.793	Volatil impurities .....	Pass test	Absorbance UV (5cm, ref. water) ..	Pass test		
Density at 15.56°C .....	≤ 0.7962	Methyl alcohol .....	≤ 75 ppm(v/v)	At 240 nm .....	≤ 0.40 AU		
Boiling point .....	78 - 79 °C			From 250 to 260 nm .....	≤ 0.30 AU		

Code	Size	Packaging	Notes
529121	1 l	Glass bottle	
308661	2.5 l	Plastic bottle	Only for Italian market
308662	2.5 l	Glass bottle	Only for Italian market
3086612	2.5 l	Plastic bottle	
3086622	2.5 l	Glass bottle	
529122	5 l	Plastic tank	
5291222	5 l	Plastic tank	Untaxed, for Italian license holders only
529124	10 l	Plastic tank	
308664	25 l	Combined drum	
308667	25 l	Plastic tank	
3086642	25 l	Combined drum	Untaxed, for italian license holders only
308663	200 l	Plastic drum	
529125	200 l	Plastic drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Ethanol absolute anhydrous > RE - Pure****RE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.7866 ÷ 0.7926	Water (K.F.) .....	≤ 0.1 %	Acidity (acetic acid) .....	≤ 50 ppm
Identification .....	Positive	Boiling point .....	78.0 ÷ 79.0 ° C	Residue on evaporation .....	≤ 30 ppm	Assay (alcohol.) at 20°C .....	≥ 99.9 % (v/v)

Code	Size	Packaging	Notes
308602	1 l	Plastic bottle	Only for Italian market
308607	1 l	Glass bottle	Only for Italian market
308608	1 l	Plastic bottle	Origin: synthesis
3086022	1 l	Plastic bottle	
3086072	1 l	Glass bottle	
308603	2.5 l	Glass bottle	Only for Italian market
308605	2.5 l	Plastic bottle	Only for Italian market
3086032	2.5 l	Glass bottle	
3086052	2.5 l	Plastic bottle	
528131	5 l	Plastic tank	
308609	10 l	Plastic tank	
3086092	10 l	Plastic tank	Untaxed, for italian license holders only
308601	25 l	Metal drum	
308604	25 l	Plastic tank	
308600	200 l	Metal drum	





## Ethanol 96°

• Etanolo 96° • Ethanol 96° • Etanol 96° • Ethanol 96°

Synonym:  
Ethyl alcohol 96°

C<sub>2</sub>H<sub>5</sub>OH

Molecular Weight: 46,07

CAS: 64-17-5

EEC-N: 200-578-6

### Classification transport

ONU: 1170

Transport Hazard class: 3

Packing group II



### Danger

H225-H319

P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

### Ethanol 96° > RS - For HPLC - Isocratic Grade

RS

Description .....	Clear colourless liquid	Boiling point.....	78.0 ÷ 79.0 °C	%v/v	At 280 nm .....	≥ 98 %
Colour .....	≤ 10 APHA	Acidity .....	≤ 0.0002 meq/g	Transmittance	Assay (CPG) .....	≥ 99.8 %
Identification (I.R.).....	Positive	Residue on evaporation .....	≤ 5 ppm	At 210 nm .....	≥ 30 %	
Density at 20°C .....	0.8050 ÷ 0.8124	Assay (alcoholic) at 20°C..	96.0 ÷ 96.3	At 254 nm .....	≥ 96 %	

Code	Size	Packaging	Notes
414541	1 l	Glass bottle	Only for Italian market
4145412	1 l	Glass bottle	
414542	2.5 l	Glass bottle	Only for Italian market
4145422	2.5 l	Glass bottle	

### Ethanol 96° > RS - SPECTROSOL - For optical spectroscopy

RS

Description .....	Clear colourless liquid	Acidity or alkalinity.....	≤0.0005 meq/g	at 365 nm .....	≤2 ppb	at 250 nm .....	≥90 %
Colour (APHA) .....	≤10	Residue on evaporation .....	≤10 ppm	U.V. Transmittance		at 270 nm .....	≥98 %
Identification .....	Positive	Assay(alcohol.) at 20°C .....	≥96.0 %(v/v)	at 210 nm .....	≥35 %		
Density at 20° C .....	0.8050 ÷ 0.8124	Fluorescence		at 220 nm .....	≥55 %		
Boiling point.....	78.0 ÷ 79.0 °C	at 254 nm .....	≤2 ppb	at 230 nm .....	≥72 %		

Code	Size	Packaging	Notes
414667	1 l	Glass bottle	Only for Italian market
4146672	1 l	Glass bottle	

### Ethanol 96° > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611002501	1 l	Glass bottle	Ref Ph.Eur 1002501

**Ethanol 96° > RPE - For analysis - ACS - Reag. Ph.Eur.****RPE**

Description .....	Clear liquid	Density at 20° C .....	0.8050 ÷ 0.8124	Subst. reducing KMnO4 .....	≤ 3 ppm	Mn .....	≤ 0.02 ppm
Colour (APHA) .....	≤ 10	Boiling point .....	78.0 ÷ 79.0 ° C	Ba .....	≤ 0.1 ppm	Ni .....	≤ 0.02 ppm
Identification (I.R.) .....	Positive	Residue on evaporation .....	≤ 10 ppm	Ca .....	≤ 0.5 ppm	Pb .....	≤ 0.1 ppm
Appearance of solution .....	Conform USP	Acidity (acetic acid) .....	≤ 30 ppm	Cd .....	≤ 0.05 ppm	Sn .....	≤ 0.1 ppm
Absorbance .....	Conform Ph Eur	Alcalinity (NH3) .....	≤ 0.0002 meq/g	Co .....	≤ 0.02 ppm	Zn .....	≤ 0.1 ppm
Volatile impurities .....	Conform Ph Eur	Alcole isopropilico-acetone .....	Conform	Cr .....	≤ 0.02 ppm	Assay(alcohol.) at 20°C	96.0 ÷ 96.9 % (v/v)
Water miscibility .....	Conform ACS	Methyl alcohol .....	≤ 0.1 %	Cu .....	≤ 0.02 ppm	Assay (GLC) .....	≥ 95.0 %
Substances darkened by sulphuric acid .....	Conform ACS	Carbonyl Compounds (CO) .....	≤ 5 ppm	Fe .....	≤ 0.1 ppm		
		Acetal + acetaldehyde .....	≤ 10 ppm(v/v)	Mg .....	≤ 0.1 ppm		

Code	Size	Packaging	Notes
414634	1 l	Plastic bottle	Only for Italian market
414637	1 l	Glass bottle	Only for Italian market
4146342	1 l	Plastic bottle	
4146372	1 l	Glass bottle	
414631	2.5 l	Glass bottle	Only for Italian market
414632	2.5 l	Plastic bottle	Only for Italian market
4146312	2.5 l	Glass bottle	
4146322	2.5 l	Plastic bottle	
414635	5 l	Plastic tank	
4146352	5 l	Plastic tank	Untaxed, for Italian license holders only
414638	10 l	Plastic tank	
414639	25 l	Plastic tank	
414633	200 l	Plastic drum	

**Ethanol 96° > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	Clear liquid	Benzene .....	≤ 2 ppm	Alcalinity (NH3) .....	≤ 1 ppm	Cu .....	≤ 0.02 ppm
Colour (APHA) .....	≤ 10	Other impurities .....	≤ 300 ppm	Isopropyl alcohol .....	≤ 30 ppm	Fe .....	≤ 0.1 ppm
Identification A .....	Conform	Furfural .....	Conform	Carbonyl Compounds (CO) .....	≤ 5 ppm	Mg .....	≤ 0.1 ppm
Identification B .....	Conform	Water miscibility .....	Conform ACS	Subst. reducing KMnO4 .....	≤ 3 ppm	Mn .....	≤ 0.02 ppm
Identification C .....	Conform	Tail products .....	Conform	Al .....	≤ 0.5 ppm	Ni .....	≤ 0.02 ppm
Absorbance		Substances darkened by sulphuric acid .....	Conform ACS	B .....	≤ 0.02 ppm	Pb .....	≤ 0.1 ppm
at 240 nm .....	≤ 0.40	Density at 20° C .....	0.8050 ÷ 0.8124	Ba .....	≤ 0.1 ppm	Sn .....	≤ 0.1 ppm
at 250 - 260 nm .....	≤ 0.30	Boiling point .....	78.0 ÷ 79.0 ° C	Ca .....	≤ 0.5 ppm	Zn .....	≤ 0.1 ppm
at 270 - 340 nm .....	≤ 0.10	Residue on evaporation .....	≤ 10 ppm	Cd .....	≤ 0.05 ppm	Assay(alcohol.) at 20°C	96.0 ÷ 96.9 % (v/v)
Methyl alcohol .....	≤ 200 ppm	Acidity (acetic acid) .....	≤ 10 ppm	Co .....	≤ 0.02 ppm	Assay(densim.) at 15.5°C	94.9 ÷ 96.0 % (v/v)
Acetaldehyde + acetal .....	≤ 10 ppm			Cr .....	≤ 0.02 ppm		

Code	Size	Packaging	Notes
414622	200 l	Plastic drum	

**Ethanol 96° > ERBapharm - According to pharmacopoeia: Ph.Eur.- Microbiological tested****ERBapharm**

Description .....	Clear colourless liquid	Volatil impurities .....	Pass test	%v/v	CFU/100ml
Identification (I.R.) .....	Positive	Density at 20°C .....	0.805 - 0.812	Origin (BSE/TSE) .....	Vegetable
Appearance of solution .....	Pass test	Boiling point .....	78 - 79 ° C	Total aerobic microbial count (TAMC) .....	≤ 5
Acidity or alcalinity .....	Pass test	Residue on evaporation ...	≤ 0.0025 % (m/v)	CFU/100ml	
Absorbance UV (5cm, ref. water) .....	Pass test	Assay (alcoholometric) at 20°C .....	95.1 - 96.9	Total yeasts/mould count (TYMC) .....	≤ 5

Code	Size	Packaging	Notes
524135	5 l	Plastic tank	
524132	25 l	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Ethanol 96° > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP

ERBApharm

Description .....	Clear colourless liquid	Assay (densim.) at 15.5° 94.9 ÷ 96.0 % v/v	Color of solution .....	Conform USP-NF	Total other impurities .....	≤ 300 ppm(v/v)
Identification .....	Positive	Assay (alcohol.) at 20°C .95.1 ÷ 96.9 % v/v	Clarity of solution .....	Conform USP-NF	Absorbance UV (5cm, ref. water) ..	Pass test
Density at 20° C .....	0.805 ÷ 0.812	Appearance of solution .....	Conform Ph.Eur.	Volatil impurities .....	At 240 nm .....	≤ 0.40 AU
Densità a 15.5°C .....	0.812 ÷ 0.816	Boiling point .....	~ 78 ° C	Methyl alcohol .....	From 250 to 260 nm .....	≤ 0.30 AU
Acidity or alkalinity .....	Conform Ph.Eur.	Origin (BSE/TSE) .....	Vegetable	Acetal + acetaldehyde .....	From 270 to 340 nm .....	≤ 0.10 AU
Residue on evaporation .....	≤ 0.0025 % m/v	Residual solvents (Current ICH) .....	Conform	Benzene .....	235 - 340 nm .....	Smooth curve

Code	Size	Packaging	Notes
308644	1 l	Plastic bottle	Only for Italian market
308647	1 l	Glass bottle	Only for Italian market
3086442	1 l	Plastic bottle	
3086472	1 l	Glass bottle	
308641	2.5 l	Glass bottle	Only for Italian market
308649	2.5 l	Plastic bottle	Only for Italian market
3086412	2.5 l	Glass bottle	
3086492	2.5 l	Plastic bottle	
529141	5 l	Plastic tank	
5291412	5 l	Plastic tank	Untaxed, for Italian license holders only
308646	10 l	Plastic tank	
3086462	10 l	Plastic tank	Untaxed, for italian license holders only
308645	25 l	Plastic tank	
3086452	25 l	Plastic tank	Untaxed, for italian license holders only
308648	27 l	Combined drum	
3086482	27 l	Combined drum	Untaxed, for italian license holders only
308643	200 l	Plastic drum	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade

## Ethanol 96° > RE - Pure

RE

Description .....	Clear colourless liquid	Water miscibility .....	Complete	Density .....	0.805 ÷ 0.8125	Assay (alcohol) .....	95 ÷ 96.9 % (v/v)
Colour .....	≤ 10 APHA	Acidity (acetic ac) .....	≤ 0.005 %	Assay GLC .....	≥ 99 %	Assay (GLC) .....	≥ 99 %
Identification .....	Positive	Boiling point .....	78 ÷ 79.5 °C	Residue on evaporation .....	≤ 25 ppm		

Code	Size	Packaging	Notes
528151	5 l	Plastic tank	
528152	10 l	Plastic tank	
528154	20 l	Plastic tank	
529152	25 l	Plastic tank	
528153	200 l	Metal drum	



## Ethanol 70% v/v

• Etanolo 70% v/v • Ethanol 70% v/v • Etanol 70% v/v • Ethanol 70% v/v

Synonym:  
Ethyl alcohol 70%

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight: 46,07  
CAS: 64-17-5

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

## Ethanol 70% v/v > ERBApharm - According to pharmacopoeia: Ph.Eur.

ERBApharm

Description .....	Clear colourless liquid	Identity (I.R.) .....	Positive	Assay (alcohol) .....	.69 ÷ 71 % (v/v)	Purified water .....	Batch number
Identification (I.R.) .....	Positif	Assay (alcoholometric) at 20°C	.69 ÷ 71 % v/v	Ethyl alcohol (or. Tereos) .....	Batch number		

Code	Size	Packaging	Notes
529187000	20 x 500 ml	Spray bottle	Sold by box: 20 bottles + 4 sprayers
529189	5 l	Plastic tank	
529183	200 l	Plastic drum	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade

**Ethanol 70% v/v > ERBApharm - According to pharmacopoeia: BP-Ph.Eur.****ERBApharm**

Description ..... Clear colourless liquid      Residue on evaporation ..... ≤ 25 ppm(m/v)      Apparent density ..... 882.2 ÷ 887.1 kg/m<sup>3</sup>  
 Volatil impurities (GC) ..... Passed test      Acidity (acetic acid) ..... ≤ 30 ppm      Assay (alcoholometric) at 20°C ..... 69.0 ÷ 71.0 %v/v

Code	Size	Packaging	Notes
529184	1 l	Spray bottle	Sold by box 6 bottles + 3 sprayers
529184000	1 l	Spray bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Ethanol 70% v/v > RE - Pure****RE**

Description ..... Clear liquid      Identification ..... Positive      Residue on evaporation ..... ≤ 30 ppm      Substances reducing KMnO<sub>4</sub> (O) ..... ≤ 3 ppm  
 Identity (IR) ..... Positive      Acidity ..... ≤ 0.003 %      Water miscibility ..... Conform ACS      Assay (alcohol.) at 20°C ..... ≥ 70 % (v/v)  
 Colour ..... Incolore      Alkalinity ..... ≤ 3 ppm      Substances darkened by sulphuric acid .....  
 Assay (alcohol) ..... 69 ÷ 71 % (v/v)      Methanol ..... ≤ 100 ppm      Conform ACS

Code	Size	Packaging	Notes
308771	2.5 l	Plastic bottle	
528170	5 l	Plastic tank	
529186	10 l	Plastic tank	
308775	25 l	Plastic tank	
3087752	25 l	Plastic tank	Untaxed, for italian license holders only

**Ethanol 60% v/v**

• Etanolo 60% v/v • Ethanol 60% v/v • Etanol 60% v/v • Ethanol 60°

Synonym:  
Ethyl alcohol 60%

C<sub>2</sub>H<sub>5</sub>OH  
 Molecular Weight: 46,07  
 CAS: 64-17-5  
 EEC-N: 200-578-6

**Classification transport**  
 ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H319  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P337+P313

**Ethanol 60% v/v > RE - Pure****RE**

Description ..... Clear colourless liquid      Assay (alcohol) ..... 59.0 ÷ 61.0 % (v/v)

Code	Size	Packaging	Notes
529180	5 l	Plastic tank	
529181	5 l	Plastic bottle	

**Ethanol 50% v/v**

• Etanolo 50% v/v • Ethanol 50% v/v • Etanol 50% v/v • Ethanol 50% v/v

Synonym:  
Ethyl alcohol 50%

C<sub>2</sub>H<sub>5</sub>OH  
 Molecular Weight: 46,07  
 CAS: 64-17-5

**Classification transport**  
 ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H319  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P337+P313

**Ethanol 50% v/v > ERBApharm - Prepared from raw material according Ph.Eur****ERBApharm**

Description ..... Clear colourless liquid      Acidity (acetic acid) ..... ≤ 30 ppm      Assay (alcoholometric) at 20°C ..... 49.0 - 51.0 %v/v  
 Residue on evaporation ..... ≤ 25 ppm      Volatil impurities (GC) ..... Pass test

Code	Size	Packaging	Notes
529261	5 l	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Ethanol absolute denaturated

- Etanolo assoluto denaturato • Ethanol absolu dénaturé • Etanol absoluto desnaturalizado
- Ethanol absolut vergällt

Synonym:  
*Ethyl alcohol absolute denaturated*

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight: 46,07  
CAS: 64-17-5

**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

### Ethanol absolute denaturated > RE - Pure - According to European regulation

RE

Description ..... Clear colourless liquid    Colour ..... ≤ 10 APHA    Density at 20°C ..... 0.787 ÷ 0.793    Assay (alcohol) ..... ≥ 99.2 % (v/v)

Code	Size	Packaging	Notes
528761	1 l	Glass bottle	
528765	2.5 l	Glass bottle	
528763	5 l	Metal tank	
528764	5 l	Plastic tank	
528766	10 l	Plastic tank	
528762	25 l	Plastic tank	

**According to regulation 2016/1867 of 20th october 2016 deleting 3199/93. Eurodenaturant: 1l isopropanol IPA), 1l methylethylketone (MEK), 1g of denatonium benzoate per hectolitre of absolute alcohol**

### Ethanol absolute denaturated > RE - Pure - According to italian denaturing procedure

RE

Description ..... Clear pink liquid    Density at 15° C ..... ~ 0.796    Assay(alcohol.) at 20°C ..... ≥ 99.5 % (V/V)  
Identification ..... Positive    Boiling point..... 77 ÷ 79 °C

Code	Size	Packaging	Notes
308651	1 l	Plastic bottle	
308653	5 l	Plastic bottle	
308656	10 l	Plastic tank	
308655	25 l	Metal drum	
308652	200 l	Metal drum	

**Denaturing procedures authorized only on Italian market**



## Ethanol 95° denaturated

- Etanolo 95° denaturato • Ethanol 95° dénaturé • Etanol 95° desnaturalizado • Ethanol vergällt 95°

Synonym:  
*Ethyl alcohol 95° denaturated*

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight: 46,07  
CAS: 64-17-5

**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

### Ethanol 95° denaturated > RE - Pure - According to European regulation

RE

Description ..... Clear colourless liquid    Colour ..... ≤ 10 APHA    Density at 20°C ..... 0.804 ÷ 0.812    Assay (alcohol) ..... 94.8 ÷ 96.8 % (v/v)

Code	Size	Packaging	Notes
528771	1 l	Glass bottle	
528775	5 l	Plastic tank	
528772	10 l	Plastic tank	
528773	25 l	Plastic tank	
528774	200 l	Metal drum	

**According to regulation 2016/1867 of 20th october 2016 deleting 3199/93. Eurodenaturant: 1l isopropanol IPA), 1l methylethylketone (MEK), 1g of denatonium benzoate per hectolitre of absolute alcohol**

**Ethanol 94° denaturated**

• Etanolo 94° denaturato • Ethanol 94° dénaturé • Etanol 94° desnaturalizado • Ethanol vergällt 94°

Synonym:

*Ethyl alcohol 94° denaturated*C<sub>2</sub>H<sub>5</sub>OH

Molecular Weight: 46,07

CAS: 64-17-5

**Classification transport**

ONU: 1170

Transport Hazard class: 3

Packing group II

**Danger**

H225-H319

P210-P241-P280-P303+P361+P353-

P305+P351+P338-P337+P313

**Ethanol 94° denaturated > RE - Pure - According to italian denaturing procedure****RE**

Description .....Clear pink liquid Identification .....Positive Density at 15° C .....0.815 ÷ 0.825 Assay(alcohol.) at 20°C .....92 ÷ 96 %

Code	Size	Packaging	Notes
308621	1 l	Plastic bottle	
308623	5 l	Plastic bottle	
308625	10 l	Plastic tank	
308624	25 l	Metal drum	

**Denaturing procedures authorized only on Italian market****Ethanol 90° denaturated**

• Etanolo 90° denaturato • Ethanol 90° dénaturé • Etanol 90° desnaturalizado • Ethanol vergällt 90°

Synonym:

*Ethyl alcohol 90° denaturated*C<sub>2</sub>H<sub>5</sub>OH

Molecular Weight: 46,07

CAS: 64-17-5

**Classification transport**

ONU: 1170

Transport Hazard class: 3

Packing group II

**Danger**

H225-H319

P210-P241-P280-P303+P361+P353-

P305+P351+P338-P337+P313

**Ethanol 90° denaturated > RE - Pure - According to italian denaturing procedure****RE**

Description .....Clear pink liquid Identification .....Positive Density at 15° C .....0.830 ÷ 0.840 Assay(alcohol.) at 20°C .....88 ÷ 92 %

Code	Size	Packaging	Notes
308681	1 l	Plastic bottle	
308683	5 l	Plastic bottle	
308682	25 l	Metal drum	
308687	160 kg	Metal drum	

**Denaturing procedures authorized only on Italian market****Ethanol 70°modified**

• Etanolo 70° modificato • Ethanol 70° modifié • Etanol 70° modificada • Ethanol 70° geändert

Synonym:

*Ethyl alcohol 70° denaturated*C<sub>2</sub>H<sub>5</sub>OH

Molecular Weight: 46,07

CAS: 64-17-5

**Classification transport**

ONU: 1170

Transport Hazard class: 3

Packing group III

**Warning**

H226-H319

P210-P241-P280-P303+P361+P353-

P305+P351+P338-P337+P313

**Ethanol 70°modified > RE - Pure****RE**

Assay .....69.5 ÷ 71.5 % v/v Density at 20°C .....0.881 ÷ 0.886

Code	Size	Packaging	Notes
528191	5 l	Plastic tank	
528192	20 l	Plastic tank	

**Colored Yellow. Modified with camphor and tartrazine**



**Ethanol-d6 anhydrous**  
 • Etanolo anidro-d6 • Ethanol anhydre-d6 • Etanol anhidro-d6 • Ethanol-d6

Synonym:  
 • Ethanol-d6  
 • Ethyl alcohol-d6

C <sub>2</sub> D <sub>6</sub> OD Molecular Weight: 52,11 CAS: 1516-08-1 EEC-N: 216-162-2	<b>Classification transport</b> ONU: 1170 Transport Hazard class: 3 Packing group II	 <b>Danger</b> H225 P210-P241-P280-P303+P361+P353-P403+P235-P501a
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**Ethanol-d6 anhydrous > RS - For NMR - min 99%**

RS

Code	Size	Packaging	Notes
P5262A	2 x 1 ml	Glass ampoule	

For specifications, contact our customer service for a certificate of analysis

**Ethanolamine**  
 • Etanolamina • Ethanolamine • Etanolamina • Ethanolamin

Synonym:  
 2-Aminoethanol

NH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> OH Molecular Weight: 61,08 CAS: 141-43-5 EEC-N: 205-483-3	<b>Classification transport</b> ONU: 2491 Transport Hazard class: 8 Packing group III	  <b>Danger</b> H302-H312-H332-H314 P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P362+P364
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**Ethanolamine > RPE - For analysis**



RPE

Description ..Clear colourless to pale yellow liquid Identification ..... Positive Water miscibility.....Conform	Alcohol miscibility..... Complete Refractive index at 20°C. 1.4491 ÷ 1.4591 Boiling point..... 169.5 ÷ 170.5 °C Melting point..... 9.8 ÷ 10.8 °C	Chloride.....≤10 ppm Diethanolamine..... ≤0.5 % Heavy metals (Pb).....≤2 ppm Sulphate.....≤20 ppm	Triethanolamine..... ≤0.5 % Fe .....≤1 ppm Assay (alkalimetric)..... ≥99 %
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Code	Size	Packaging	Notes
447351	1 l	Glass bottle	
447352	30 kg	Aluminium can	

Hygroscopic product. Store well sealed in a dry place

**Ethyl acetate**  
 • Etile acetato • Ethyle acétate • Etilo acetato • Ethylacetat

CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub> Molecular Weight: 88,11 CAS: 141-78-6 EEC-N: 205-500-4	<b>Classification transport</b> ONU: 1173 Transport Hazard class: 3 Packing group II	  <b>Danger</b> H225-H319-H336-HEU066 P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233
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**Ethyl acetate > RS - For LC/MS**

RS

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Identification (I.R.)..... Positive Refractive index at 20°C..... 1.370 - 1.374 Water (K.F.)..... ≤ 200 ppm	Residue on evaporation .....≤ 2 ppm Acidity (acetic acid)..... ≤ 0.0030 % Alcalinity (NH <sub>3</sub> )..... ≤ 0.0005 % Assay (CPG)..... ≥ 99.95 % Transmittance	At 260 nm ..... ≥ 75 % At 275 nm ..... ≥ 97 % At 300 nm ..... ≥ 98 % Metals compounds Al .....≤ 50 ppb	Fe .....≤ 50 ppb Na .....≤ 50 ppb Ca .....≤ 50 ppb Mg .....≤ 50 ppb K .....≤ 50 ppb
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Code	Size	Packaging	Notes
448383	1 l	Glass bottle	
448384	2.5 l	Glass bottle	

**Ethyl acetate > RS - For HPLC - Isocratic Grade**

RS

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 0.898 ÷ 0.902 Refractive index at 20°C. 1.3699 ÷ 1.3739	Boiling point..... 76.9 ÷ 77.4 °C Water (K.F.)..... ≤300 ppm Residue on evaporation .....≤10 ppm Acidity or alkalinity.....≤0.0015 meq/g	Assay (GLC) ..... ≥99.9 % U.V. Transmittance at 260 nm ..... ≥76 % at 270 nm ..... ≥94 %	at 300 nm ..... ≥ 97 % Methyl alcohol..... ≤ 100 ppm Ethyl alcohol ..... ≤ 400 ppm
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Code	Size	Packaging	Notes
412611000	1 l	Glass bottle	
412612000	2.5 l	Glass bottle	

**Ethyl acetate > RS - For preparative HPLC - Reag.Ph.Eur.**

RS

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.3699 ÷ 1.3739	Residue on evaporation .....	≤ 5 ppm	at 265 nm .....	≥ 80 %
Identification .....	Positive	Boiling point..... 76.9 ÷ 77.4 ° C	Assay (GLC) .....	≥ 99.9 %	at 300 nm .....	≥ 95 %
Density at 20° C .....	0.901 ÷ 0.902	Water (K.F) .....	U.V. Transmittance			

Code	Size	Packaging	Notes
448211	2.5 l	Glass bottle	

**Ethyl acetate > RS - For GC-MS**

RS

Appearance .....	Clear colourless liquid	Colour .....	≤ 10 APHA	Methyl alcohol.....	≤ 100 ppm	(scanning area 30-600amu)
Refractive index at 20°C.....	1.370 - 1.374	Acidity (acetic acid).....	≤ 30 ppm	GC-MS.Individual peak (n-hexadecane).	≤ 2 µg/L	
Water (K.F).....	≤ 150 ppm	Assay (GC).....	≥ 99.9 %	Ret.range n-undecane to n-tetracontane		
Residue on evaporation .....	≤ 2 ppm	Ethyl alcohol .....	≤ 200 ppm			

Code	Size	Packaging	Notes
448342	1 l	Glass bottle	

**Ethyl acetate > RS - ATRASOL - For traces analysis**

RS

Appearance .....	Clear colourless liquid	Methanol .....	≤ 100 mg/Kg	Free acid (as CH <sub>3</sub> COOH).....	≤ 30 mg/Kg	to decachlorobiphenyle
Refractive index at 20°C.....	1.370 - 1.374	Non volatile residue.....	≤ 2 mg/Kg	GC ( FID ) - NC Atrasol .....	Conform	GC-FID.Individual peak (n-hexadecane). ≤ 2 µg/L
Water content (K.F).....	≤ 150 mg/Kg	Ethanol .....	≤ 200 mg/Kg	GC-ECD.Individual peak (Lindane) .	≤ 2 ng/L	Ret.range n-undecane to n-tetracontane
Colour .....	≤ 10 Hazen	Assay (GC).....	≥ 99.9 %	Ret.range 1,2,4-trichlorobenzene		

Code	Size	Packaging	Notes
P0023216	1 l	Glass bottle	
P0023221	2.5 l	Glass bottle	

**Ethyl acetate > RS - PESTIPUR - For pesticide analysis**

RS

Description .....	Clear liquid	Assay (GLC) .....	≥ 99.8 %	Free acid (as CH <sub>3</sub> COOH).....	≤ 30 mg/kg
Identification .....	Positive	Water .....	≤ 0.03 %	GC-ECD (Lindane standard) .....	≤ 3 ng/l
Colour .....	≤ 10 hazen	Not volatile residue.....	≤ 2 mg/kg	GC-NPD (Ethylparathion standard) .....	≤ 3 ng/l

Code	Size	Packaging	Notes
448351	1 l	Glass bottle	
448352000	2.5 l	Glass bottle	

**Ethyl acetate > RS - SPECTROSOL - For optical spectroscopy**

RS

Description .....	Clear liquid	Boiling point.....	76.9 ÷ 77.4 ° C	Ethyl alcohol .....	≤ 100 ppm	at 260 nm .....	≥ 75 %
Colour (APHA) .....	≤ 10	Water (K.F) .....	≤ 100 ppm	Methyl alcohol.....	≤ 100 ppm	at 270 nm .....	≥ 95 %
Identification .....	Positive	Residue on evaporation .....	≤ 10 ppm	Assay (GLC) .....	≥ 99.8 %	at 280 nm .....	≥ 98 %
Density at 20° C .....	0.898 ÷ 0.902	Acidity .....	≤ 0.0005 meq/g	U.V. Transmittance			
Refractive index at 20°C.1.3699 ÷ 1.3739		Alcalinity.....	≤ 0.0002 meq/g	at 255 nm .....	≥ 15 %		

Code	Size	Packaging	Notes
448271	1 l	Glass bottle	
448272	2.5 l	Glass bottle	

**Ethyl acetate > RS - Anhydrous - For analysis**

RS

Refractive index at 20°C.....	1.37 - 1.374	Colour .....	≤ 10 Hazen	Methanol .....	≤ 100 mg/Kg	Methyl acetate .....	≤ 0.10 %
Water content (K.F).....	≤ 100 mg/Kg	Free acid (as CH <sub>3</sub> COOH).....	≤ 30 mg/Kg	Ethanol.....	≤ 400 mg/Kg		
Non volatile residue.....	≤ 10 mg/Kg	Assay (GC).....	≥ 99.8 %	Density d20/4 .....	0.898 - 0.902		

Code	Size	Packaging	Notes
P0021010	200 ml	Bottle with septum	
P0021016	1 l	Glass bottle	
P0021021	2.5 l	Glass bottle	
P00210T21	2.5 l	Glass bottle	On molecular sieves 4A, Water content < 20ppm

## Ethyl acetate > RS - RSE - For electronic use

**RS**

Description .....	Clear liquid	Ag .....	≤0.02 ppm	Cr .....	≤0.01 ppm	Ni .....	≤0.01 ppm
Colour (APHA) .....	≤10	Al .....	≤0.05 ppm	Cu .....	≤0.01 ppm	Pb .....	≤0.02 ppm
Identification .....	Positive	As .....	≤0.01 ppm	Fe .....	≤0.02 ppm	Pt .....	≤0.05 ppm
Ready carbonizable substances.....	Conform	Au .....	≤0.05 ppm	Ga .....	≤0.02 ppm	Sb .....	≤0.01 ppm
Assay (GLC) .....	≥99.9 %	B .....	≤0.01 ppm	In .....	≤0.02 ppm	Sn .....	≤0.02 ppm
Resistivity .....	≥20 Mohm.cm	Ba .....	≤0.1 ppm	K .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Density at 20° C .....	0.898 ÷ 0.902	Be .....	≤0.02 ppm	Li .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Boiling point.....	76.6 ÷ 77.6 ° C	Bi .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Water (K.F.) .....	≤500 ppm	Ca .....	≤0.2 ppm	Mn .....	≤0.01 ppm	V .....	≤0.05 ppm
Residue on evaporation .....	≤10 ppm	Cd .....	≤0.01 ppm	Mo .....	≤0.05 ppm	Zn .....	≤0.02 ppm
Acidity (acetic acid).....	≤50 ppm	Co .....	≤0.01 ppm	Na .....	≤0.2 ppm	Zr .....	≤0.05 ppm

Code	Size	Packaging	Notes
448307	1 l	Glass bottle	
448308	2.5 l	Glass bottle	
448306	5 l	Metal tank	

## Ethyl acetate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Clear liquid	Refractive index at 20°C. 1.3699 ÷ 1.3739	Al .....	≤0.5 ppm	Fe .....	≤0.02 ppm
Colour (APHA) .....	≤10	Boiling point..... 76.9 ÷ 77.4 ° C	B .....	≤0.02 ppm	Mg .....	≤0.1 ppm
Identification (I.R.).....	Conform	Water (K.F.)..... ≤300 ppm	Ba .....	≤0.1 ppm	Mn .....	≤0.02 ppm
Alcohol miscibility.....	Complete	Residue on evaporation .....	Ca .....	≤0.5 ppm	Ni .....	≤0.02 ppm
Foreign esters .....	Conform	Acidity .....	Cd .....	≤0.05 ppm	Pb .....	≤0.02 ppm
Water solubility.....	Conform	Ethyl alcohol .....	Co .....	≤0.02 ppm	Sn .....	≤0.1 ppm
Substances darkened by sulphuric acid .....	Conform	Methyl alcohol..... ≤0.01 %	Cr .....	≤0.02 ppm	Zn .....	≤0.02 ppm
Density at 20° C .....	0.901 ÷ 0.902	Methyl acetate .....	Cu .....	≤0.02 ppm	Assay (GLC) .....	≥99.9 %

Code	Size	Packaging	Notes
448251	1 l	Glass bottle	
448256	2.5 l	Glass bottle	
448254	5 l	Plastic tank	
448252	10 l	Metal tank	
448258	10 l	Plastic tank	
448253	24 kg	Metal drum	
448255	180 kg	Metal drum	

## Ethyl acetate > ERBAPharm - According to pharmacopoeia: NF

**ERBAPharm**

Description .....	Clear colourless liquid	Ready carbonizable substances..... Conform USP-NF	Organic volatile impurities Conform USP-NF	Water (K.F.) .....	≤0.1 %	
Identification .....	Positive	Methyl compounds..... Conform USP-NF	Density at 25° C .....	0.894 ÷ 0.898	Cromatographic purity .....	≥99.5 %
Acidity .....	Conform USP-NF		Residue on evaporation .....	≤0.02 %	Assay (saponification) .....	99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
341511	1 l	Glass bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Ethyl acetate > ERBAPharm - According to pharmacopoeia: DAB-NF-Ph.Eur.

**ERBAPharm**

Description .....	Clear colourless liquid	Refractive index at 20°C..... 1.370 ÷ 1.373	Readily carbonizable substances... Conform USP-NF	Ethyl alcohol .....	≤ 0.05 %
Colour .....	≤ 10 APHA	Boiling point..... 76 ÷ 78 °C	React. with ac. sulfuric..... Conform Ph.Eur.	Titolo (saponificazione).....	99.0 ÷ 100.5 %
Appearance .....	Conform Ph.Eur.	Acidity (acetic acid)..... ≤ 0.005 %	Methyl compounds..... Conform USP-NF	Assay (GLC) .....	≥ 99.9 %
Identification .....	Positive	Acidity .....	Organic volatile impurities Conform USP-NF	Origin (BSE/TSE).....	Synthesis
Density at 20° C .....	0.898 ÷ 0.902	Residue on evaporation .....	Related compounds..... ≤ 0.2 %	Residual solvents (Current ICH).....	Conform
Density at 25° C .....	0.894 ÷ 0.898	Water (K.F.) .....			

Code	Size	Packaging	Notes
341506	1 l	Glass bottle	
341503	2.5 l	Glass bottle	
341502	24 kg	Metal drum	
529221	25 l	Aluminium can	
529222	200 l	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Ethyl acetate > RE - Pure**

RE

Description .....	Clear colourless liquid	Density at 20°C .....	0.898 ÷ 0.902	Acidity (acetic ac) .....	≤ 30 ppm	Assay (GLC) .....	≥ 99.8 %
Colour .....	≤ 10 APHA	Boiling point .....	76.0 ÷ 77.5 °C	Residue on evaporation .....	≤ 20 ppm	Ethyl alcohol .....	≤ 0.04 %
Identity (IR) .....	Positive	Refractive index at 20°C .....	1.3699 ÷ 1.3739	Water (K.F.) .....	≤ 500 ppm		

Code	Size	Packaging	Notes
508221	1 l	Glass bottle	
508222	2.5 l	Glass bottle	
528295	5 l	Plastic tank	
528299	10 l	Metal tank	
528294	25 l	Metal drum	
528296	25 l	Plastic tank	
528297	200 l	Metal drum	

**Ethyl acetoacetate**

• Etile acetoacetato • Ethyle acétoacétate • Etilo acetoacetato • Ethylacetoacetat

Synonym:

*Acetoacetic ester*

$\text{CH}_3\text{CH}_2\text{OCOCH}_2\text{COCH}_3$   
 Molecular Weight: 130,14  
 CAS: 141-97-9  
 EEC-N: 205-516-1

**Warning**

H319

P264+P280i+P305+P351+P338-P337+P313

**Ethyl acetoacetate > RE - Pure**

RE

Description .....	Clear colourless liquid	Density at 20° C .....	1.021 ÷ 1.029	Boiling point .....	179 ÷ 181 ° C	Assay (GLC) .....	≥ 98 %
Identification .....	Positive	Refractive index at 20°C .....	1.415 ÷ 1.424	Water (K.F.) .....	≤ 0.1 %		

Code	Size	Packaging	Notes
341751	1 l	Glass bottle	

Ethyl alcohol absolute anhydrous ▶ Ethanol absolute anhydrous

Ethyl alcohol 96° ▶ Ethanol 96°

Ethyl alcohol 70% ▶ Ethanol 70% v/v

Ethyl alcohol 60% ▶ Ethanol 60% v/v

Ethyl alcohol 50% ▶ Ethanol 50% v/v

Ethyl alcohol absolute denaturated ▶ Ethanol absolute denaturated

Ethyl alcohol 95° denaturated ▶ Ethanol 95° denaturated

Ethyl alcohol 94° denaturated ▶ Ethanol 94° denaturated

Ethyl alcohol 90° denaturated ▶ Ethanol 90° denaturated

Ethyl alcohol 70° denaturated ▶ Ethanol 70° modified

Ethyl diisopropylamine ▶ N,N-Diisopropylethylamine

**Ethylenediamine**  
 • Etilendiamina • Ethylènediamine • Etilendiamina • Ethylendiamin  
 Synonym:  
 1,2-Diaminoethane

$\text{NH}_2\text{CH}_2\text{CH}_2\text{NH}_2$   
 Molecular Weight: 60,1  
 CAS: 107-15-3  
 EEC-N: 203-468-6

**Classification transport**  
 ONU: 1604  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H226-H302-H311-H332-H314-H334-H317  
 P210-P280-P284-P301+P330+P331-  
 P303+P361+P353-P304+P340-P310a-  
 P305+P351+P338-P361+P364-P342+P311a

**Ethylenediamine > RS - RSE - For electronic use**

**RS**

Description ..... Clear liquid      Freezing point .....  $10.2 \div 10.8 \text{ }^\circ\text{C}$       Cu .....  $\leq 50 \text{ ppb}$       Assay (GLC) .....  $\geq 98.0 \%$   
 Colour (APHA) .....  $\leq 10$       Residue on ignition .....  $\leq 100 \text{ ppm}$       Fe .....  $\leq 50 \text{ ppb}$   
 Density at  $20^\circ\text{C}$  .....  $0.890 \div 0.906 \text{ g/ml}$       Cr .....  $\leq 50 \text{ ppb}$       Ni .....  $\leq 50 \text{ ppb}$

Code	Size	Packaging	Notes
449451	180 kg	Plastic drum	

**Ethylenediamine > RPE - For analysis**

**RPE**

Description ..... Clear colourless liquid      Density at  $20^\circ\text{C}$  .....  $0.890 \div 0.906$       Melting point .....  $10 \div 12 \text{ }^\circ\text{C}$       Fe .....  $\leq 5 \text{ ppm}$   
 Identification ..... Positive      Refractive index at  $20^\circ\text{C}$ :  $1.4470 \div 1.4570$       Heavy metals (Pb) .....  $\leq 5 \text{ ppm}$       Assay (GLC) .....  $\geq 98 \%$   
 Alcohol miscibility ..... Complete      Boiling point .....  $115.8 \div 117.3 \text{ }^\circ\text{C}$       Residue on ignition .....  $\leq 100 \text{ ppm}$

Code	Size	Packaging	Notes
449425	1 l	Glass bottle	
449426	5 l	Plastic tank	
449424	25 kg	Combined drum	

**Ethylenediaminetetraacetic acid**  
 • Acido etilendiamminotetracetico • Acide ethylènediaminetétracétique • Acido etilendiaminotetracético  
 • Ethylendiamintetraessigsäure  
 Synonym:  
 • EDTA  
 • (Ethylenedinitrilo)tetraacetic acid

$[\text{CH}_2\text{N}(\text{CH}_2\text{COOH})_2]_2$   
 Molecular Weight: 292,24  
 CAS: 60-00-4  
 EEC-N: 200-449-4



**Warning**  
 H319  
 P264-P280i-P305+P351+P338-P337+P313

**Ethylenediaminetetraacetic acid > RPE - For analysis**

**RPE**

Description ..... White powder      Loss on drying .....  $\leq 0.1 \%$        $\text{NH}_4\text{OH}$ -Insoluble subst. ....  $\leq 50 \text{ ppm}$       Cu .....  $\leq 2 \text{ ppm}$   
 Identification ..... Positive      Nitritotriacetic acid .....  $\leq 0.15 \%$       Heavy metals (Pb) .....  $\leq 5 \text{ ppm}$       Fe .....  $\leq 5 \text{ ppm}$   
 Chelation power ..... Conform      Chloride .....  $\leq 40 \text{ ppm}$       Residue on ignition .....  $\leq 0.1 \%$       Assay (complexometric) .....  $\geq 99 \%$

Code	Size	Packaging	Notes
405465	250 g	Plastic bottle	
405463	1 kg	Plastic bottle	

**Suitable for complexometry**

**Ethylenediaminetetraacetic acid > ERBApharm - According to pharmacopoeia: NF**

**ERBApharm**

Description ..... White powder      Nitritotriacetic acid .....  $\leq 0.3 \%$       Fe .....  $\leq 50 \text{ ppm}$   
 Identification ..... Positive      Residue on ignition .....  $\leq 0.2 \%$       Assay (complexometric) .....  $98.0 \div 100.5 \%$

Code	Size	Packaging	Notes
303251	5 kg	Plastic tank	
303252	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Ethylenediaminetetraacetic acid dipotassium salt dihydrate**

- Acido etilendiamminotetraacetico sale bipotassico diidrato
- Acide éthylènediaminetétracétique sel dipotassique dihydraté
- Acido etilendiamminotetraacetico sal dipotasica diidrato
- Ethylendiamintetraessigsäure-Dikaliumsalz-Dihydrat

Synonym:

- Dipotassium ethylenediaminetetraacetate dihydrate
- EDTA dipotassium salt

$C_{10}H_{14}N_2O_8K_2 \cdot 2H_2O$   
Molecular Weight: 404,46  
CAS: 25102-12-9

**Warning**

H302-H312-H332  
P261-P264-P271-P280h-P301+P312a-P304+P340

**Ethylenediaminetetraacetic acid dipotassium salt dihydrate > RPE - For analysis****RPE**

Description ..... White crystalline powder      pH sol. 5% at 25° C ..... 4.0 ÷ 5.0      Heavy metals (Pb) ..... ≤10 ppm      Assay (complexometric) ..... ≥ 98.5 %  
Identification ..... Positive      Chloride ..... ≤50 ppm      Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
405531	50 g	Glass bottle	

**Suitable for complexometry****Ethylenediaminetetraacetic acid dipotassium salt dihydrate > RE - Pure****RE**

Description ..... White granular powder      Fe ..... ≤ 0.001 %      Sulphate ..... ≤0.01 %      Loss on drying 150° C ..... 8.5 ÷ 9.5 %  
Identification ..... Positive      Heavy metals (Pb) ..... ≤ 0.0005 %      Ca ..... ≤ 0.0005 %      Assay (complexometric) ..... ≥ 99.0 %  
pH sol. 5% in H<sub>2</sub>O ..... 4.0 ÷ 5.0      Chloride ..... ≤ 0.0004 %      Cu ..... ≤ 0.0001 %  
Water-insoluble matter ..... ≤ 0.003 %      Cyanide ..... ≤ 0.001 %      Nitrotriacetic acid ..... ≤ 0.05 %

Code	Size	Packaging	Notes
405582	25 kg	Plastic bucket	

**Suitable for complexometry****Ethylenediaminetetraacetic acid disodium salt**

- Acido etilendiamminotetraacetico sale bisodico
- Acide éthylènediaminetétracétique sel disodique
- Acido etilendiamminotetraacetico sal disódica
- Ethylendiamintetraessigsäure dinatriumsalz

Synonym:

- Disodium ethylenediaminetetraacetate dihydrate
- EDTA disodium salt

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$   
Molecular Weight: 372,24  
CAS: 6381-92-6  
EEC-N: 205-358-3

**Warning**

H332-H373  
P260-P271-P304+P340-P312a-P314-P501a

**Ethylenediaminetetraacetic acid disodium salt > RPE - For analysis - ACS****RPE**

Description ..... White powder      pH sol. 5% at 25° C ..... 4.0 ÷ 6.0      Water-insoluble matter ..... ≤50 ppm      Fe ..... ≤100 ppm  
Identification ..... Positive      Nitrotriacetic acid ..... ≤0.1 %      Heavy metals (Pb) ..... ≤50 ppm      Assay (complexometric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
405494	100 g	Plastic bottle	
405491	250 g	Plastic bottle	
405497	1 kg	Plastic bottle	
405492	25 kg	Plastic bucket	

**Suitable for complexometry****Ethylenediaminetetraacetic acid disodium salt > ERBapharm - According to pharmacopoeia: FU-Ph.Eur.****ERBapharm**

Description ..... White powder      pH sol. 5% at 25° C ..... 4.0 ÷ 5.5      Assay (complexometric) ..... 98.5 ÷ 101.0 %      Impurity A ..... ≤ 0.1 %  
Identification ..... Positive      Heavy metals (Pb) ..... ≤20 ppm      Origin (BSE/TSE) ..... Synthesis  
Appearance of solution ..... Conform Ph.Eur.      Fe ..... ≤80 ppm      Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
303201	1 kg	Plastic bottle	
303203	5 kg	Plastic tank	
303202	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Ethylenediaminetetraacetic acid disodium salt > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP

**ERBApharm**

Description .....	White powder	Ca .....	Conform USP-NF	Ac. nitrilotriacetic (Impurezza A) ...	≤ 0.1 %	Assay (complexometric) 99.0 ÷ 101.0 % s.s.
Identification .....	Positive	pH sol. 5% at 25° C .....	4.0 ÷ 5.5	Heavy metals (Pb) .....	≤ 20 ppm	Origin (BSE/TSE) .....
Appearance of solution .....	Conform Ph.Eur.	Loss on drying .....	8.7 ÷ 11.4 %	Fe .....	≤ 80 ppm	Residual solvents (Current ICH) .....
						Conform

Code	Size	Packaging	Notes
303227	1 kg	Plastic bottle	
303226	5 kg	Plastic tank	
303225	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)

- Acido etilendiamminotetracetico sale bisodico 0.1 mol/l (0.2N) • Acide éthylènediaminotétracétique sel disodique 0.1 mol/l (0.2N) • Acido etilendiaminotetracético sal disódica 0.1 mol/l (0.2N) • Ethylenediamintetraessigsäure dinatriumsalz 0.1 mol/l (0.2N)
- Synonym:
  - Disodium ethylenediaminetetraacetate dihydrate
  - EDTA disodium salt

C<sub>10</sub>H<sub>14</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>8</sub>·2H<sub>2</sub>O  
 Molecular Weight: 372.24  
 CAS: 6381-92-6

HEU210

## Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613005901	500 ml	Plastic bottle	Ref Ph.Eur 3005900
613005900	1 l	Plastic bottle	Ref Ph.Eur 3005900

## Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N) > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	NIST 682	Assay (colorimetry) .....	0.1996 - 0.2004 N
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Code	Size	Packaging	Notes
405511000	1 l	Plastic bottle	Certified with NIST traceability
405513000	5 l	Kubidos	Certified with NIST traceability
405514000	5 l	Plastic tank	Certified with NIST traceability
405512000	10 l	Kubidos	Certified with NIST traceability

**37.22 g of EDTA disodium salt. Volumetric solution ready-to-use**

## Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N) > RPE - NORMEX - For analysis

**RPE**

Description .....	Clear colourless liquid	Identification .....	Conform	Titration factor .....	1.000 ± 0.005
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Code	Size	Packaging	Notes
405421		Plastic ampoule	Volume: 165 ml

**Volumetric concentrated solution to prepare 1 L of solution 0,1 M**

### Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)



- Acido etilendiamminotetracetico sale bisodico 0.05 mol/l (0.1N)
- Acide éthylènediaminotétracétique sel disodique 0.05 mol/l (0.1N)
- Acido etilendiaminotetracético sal disódica 0.05 mol/l (0.1N)
- Ethylenediamintetraessigsäure dinatriumsalz 0.05 mol/l (0.1N)

Synonym:

- Disodium ethylenediaminetetraacetate dihydrate
- EDTA disodium salt

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$   
Molecular Weight: 372,24  
CAS: 6381-92-6

HEU210

### Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (colorimetry) ..... 0.0998 - 0.1002 N NIST 682

Code	Size	Packaging	Notes
405501000	1 l	Plastic bottle	Certified with NIST traceability
405502000	5 l	Plastic tank	Certified with NIST traceability

**18.61 g of EDTA disodium salt. Volumetric solution ready-to-use**

### Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)



- Acido etilendiamminotetracetico sale bisodico 0.01 mol/l (0.02N)
- Acide éthylènediaminotétracétique sel disodique 0.01 mol/l (0.02N)
- Acido etilendiaminotetracético sal disódica 0.01 mol/l (0.02N)
- Ethylenediamintetraessigsäure dinatriumsalz 0.01 mol/l (0.02N)

Synonym:

- Disodium ethylenediaminetetraacetate dihydrate
- EDTA disodium salt

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$   
Molecular Weight: 372,24  
CAS: 6381-92-6

HEU210

### Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid NIST 682 Assay (colorimetry) ..... 0.01996 - 0.02004 N

Code	Size	Packaging	Notes
405442000	1 l	Plastic bottle	Certified with NIST traceability
405443000	5 l	Kubidos	Certified with NIST traceability

**3.722 g of EDTA disodium salt. Volumetric solution ready-to-use**

### Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
405431		Plastic ampoule	Volume: 55 ml

**3,3621 g EDTA. Volumetric concentrated solution to prepare 1 L of solution 0,01 M**

### Ethylenediaminetetraacetic acid potassium and magnesium salt dihydrate



- Acido etilendiamminotetracetico sale di potassio e magnesio diidrato
- Acide éthylènediaminotétracétique sel de potassium et de magnésium dihydraté
- Acido etilendiaminotetracético sal dipotasica-magnésica dihidrato
- Ethylenediamintetraessigsäure-Kaliumsalz und Magnesiumdihydrat

Synonym:

- EDTA-K2Mg
- Ethylenediaminetetraacetic acid dipotassium magnesium salt

$C_{10}H_{12}K_2MgN_2O_8 \cdot 2H_2O$   
Molecular Weight: 462,8  
CAS: 15708-48-2  
EEC-N: 239-803-8



Warning

H302-H312-H332

P261-P264-P271-P280h-P301+P312a-P304+P340

### Ethylenediaminetetraacetic acid potassium and magnesium salt dihydrate > RPE - For analysis

RPE

Description ..... White powder Heavy metals (as Pb) ..... ≤ 10 ppm Free magnesium ..... ≤ 0.01 % Water (K.F) ..... 7.5 - 9.5 %  
Identification (I.R.) ..... Conform Fe ..... ≤ 10 ppm Free EDTA ..... ≤ 0.05 % Assay (complexometry) ..... ≥ 98 % s.s

Code	Size	Packaging	Notes
405541	100 g	Plastic bottle	

**Suitable for complexometry**

**Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate**

**Synonym:**  
 • EDTA tetrasodium salt  
 • Tetrasodium ethylenediaminetetraacetate tetrahydrate

**Warning**  
 H302-H312-H332  
 P261-P264-P271-P280h-P301+P312a-P304+P340

[CH2N(CH2COONa)2]2.4H2O  
 Molecular Weight: 452,24  
 CAS: 13235-36-4  
 EEC-N: 200-573-9

**Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate > RPE - For analysis**

**RPE**

Description ..... White crystalline powder      pH sol. 1% ..... 10.0 ÷ 12.0      Assay (complexometric) ..... ≥ 98.5 % (s.s.)  
 Identification ..... Positive      Water (K.F.) ..... 15.0 - 17.0 %

Code	Size	Packaging	Notes
405482	250 g	Plastic bottle	
405486	25 kg	Fibreboard box	

*Suitable for complexometry*

**Ethylenediaminetetraacetic acid tripotassic salt**

**Synonym:**  
 EDTA Tripotassium salt | Tripotassium ethylenediaminetetraacetate hydrate

**Warning**  
 H302-H373  
 P260-P264-P301+P312a-P330-P314-P501a

C10H13K3N2O8.2H2O  
 Molecular Weight: 442,57  
 CAS: 65501-24-8

**Ethylenediaminetetraacetic acid tripotassic salt > RE - Pure**

**RE**

Code	Size	Packaging	Notes
405424	25 kg	Fibre drum	

**Ethylene dichloride ▶ 1,2-Dichloroethane**

**Ethylene glycol**

**Synonym:**  
 1,2-Ethanediol

**Warning**  
 H302-H373  
 P260-P264-P301+P312a-P330-P314-P501a

CH2OHCH2OH  
 Molecular Weight: 62,07  
 CAS: 107-21-1  
 EEC-N: 203-473-3

**Ethylene glycol > RPE - For analysis**

**RPE**

Description ..... Clear colourless liquid      Reac. with Ammonium hydr ..... Conform      Water (K.F.) ..... ≤ 0.1 %      Peroxides (H2O2) ..... ≤ 5 ppm  
 Identification ..... Positive      Sub reducing AgNO3 amm ..... Conform      Acidity (acetic acid) ..... ≤ 3 ppm      Residue on ignition ..... ≤ 50 ppm  
 Water miscibility ..... Conform      Density at 20 °C ..... 1.108 ÷ 1.118      Chloride ..... ≤ 2 ppm      Sulphate ..... ≤ 20 ppm  
 Miscb. with Acetone ..... Complete      Refractive index at 20°C. 1.4274 ÷ 1.4354      Carbonyl Compounds (CO) ..... ≤ 100 ppm      Fe ..... ≤ 1 ppm  
 Alcohol miscibility ..... Complete      Boiling point ..... 194 ÷ 200 °C      Heavy metals (Pb) ..... ≤ 2 ppm      Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
453905	1 l	Glass bottle	
453904	2.5 l	Glass bottle	
453906	5 l	Plastic tank	
453902	30 kg	Plastic drum	

**Ethylene glycol > RE - Pure****RE**

Description ..... Clear colourless liquid  
 Identification ..... Positive  
 Density at 20° C ..... 1.108 ÷ 1.118  
 Refractive index at 20°C. 1.4264 ÷ 1.4364  
 Boiling point ..... 194 - 200 ° C  
 Water (K.F.) ..... ≤0.3 %  
 Residue on ignition ..... ≤100 ppm  
 Assay (GLC) ..... ≥98 %

Code	Size	Packaging	Notes
346501	1 l	Glass bottle	
346503	2.5 l	Glass bottle	
346502	5 l	Plastic tank	
346504	25 l	Plastic tank	
346509	60 kg	Plastic tank	
346508	230 kg	Metal drum	

**Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid**

- Acido etilenglicole bis-(2-aminoetilere) tetracetico
- Acide éthylèneglycol bis-(2-aminoéthylether) tétracétique (EGTA)
- Acido etilenglicol-bis (2-aminoetil-éter) tetracético
- Ethylenglykol-bis-(2-aminoethyl)-n,n',n'-tetraessigsäure

Synonym:  
EGTA

$C_{14}H_{24}N_2O_{10}$   
 Molecular Weight: 380,35  
 CAS: 67-42-5  
 EEC-N: 200-651-2

**Ethylene glycol bis(2-aminoethyl ether)-n,n,n',n'-tetraacetic acid > RPE - For analysis****RPE**

Description ..... White cryst. powder  
 Identification ..... Positive  
 Loss on drying ..... ≤1 %  
 Residue on ignition ..... ≤0.1 %  
 Assay (complexometric) ..... ≥97 %

Code	Size	Packaging	Notes
405521	10 g	Glass bottle	
405522	100 g	Plastic bottle	

**Suitable for complexometry**

Ethylene glycol butyl ether ▶ 2-Butoxy ethanol

Ethylene glycol dimethyl ether ▶ 1,2-Dimethoxyethane

Ethylene glycol monomethyl ether ▶ 2-Methoxy ethanol

**Ethylene oxide solution**

- Soluzione ossido di etilene • Oxyde d'éthylène solution • Etileno óxido solución • Ethylenoxidlösung

**Ethylene oxide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611036408	1 ml	Glass ampoule	Ethylene oxide solution R2 Ref Ph.Eur 1036408
611036401	10 ml	Glass ampoule	Ethylene oxide stock solution Ref Ph.Eur 1036401

Ethyl ether ▶ Diethyl ether

	<b>Ethyl formate</b>	Synonym:
	• Etile formiato • Ethyle formiate • Etilo formiato • Ethylformiat	Formic acid ethyl ester

$C_3H_6O_2$ Molecular Weight: 74,08 CAS: 109-94-4 EEC-N: 203-721-0	<b>Classification transport</b> ONU: 1190 Transport Hazard class: 3 Packing group II	  <b>Danger</b> H225-H302-H332-H319-H335 P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233
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### Ethyl formate > RE - Pure

RE

Description ..... Clear liquid	Density at 20° C ..... 0.907 ÷ 0.927	Assay (GLC) ..... ≥ 98.0 %	Boiling point ..... 53.3 ÷ 55.3 °C
Identification ..... Positive	Refractive index at 20°C. 1.3547 ÷ 1.3647	Colour (APHA) ..... ≤ 20	Acidity ..... ≤ 0.002 meq/g

Code	Size	Packaging	Notes
342101	1 l	Glass bottle	

	<b>Ethyl methyl ketone</b>	Synonym:
	• Metiletilchetone • Méthyléthylcétone • Metiletilcetona • Ethylmethylketon	• 2-Butanone • MEK

$CH_3CH_2COCH_3$ Molecular Weight: 72,11 CAS: 78-93-3 EEC-N: 201-159-0	<b>Classification transport</b> ONU: 1193 Transport Hazard class: 3 Packing group II	  <b>Danger</b> H225-H319-H336-HEU066 P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233
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### Ethyl methyl ketone > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.377 - 1.381	Non volatile residue ..... ≤ 10 mg/Kg	Assay (GC) ..... ≥ 99.5 %
Water content (K.F.) ..... ≤ 200 mg/Kg	Colour ..... ≤ 10 Hazen	Free acid (as CH3COOH) ..... ≤ 30 mg/Kg

Code	Size	Packaging	Notes
P0201016	1 l	Glass bottle	

### Ethyl methyl ketone > RPE - For analysis - Reag. Ph. Eur.

RPE

Description ..... Clear colourless liquid	Boiling point ..... 79 ÷ 80 °C	Ba ..... ≤ 0.1 ppm	Mn ..... ≤ 0.02 ppm
Identification (I.R.) ..... Positive	Water (K.F.) ..... ≤ 500 ppm	Ca ..... ≤ 0.5 ppm	Ni ..... ≤ 0.02 ppm
Colour ..... ≤ 10 APHA	Residue on evaporation ..... ≤ 10 ppm	Cd ..... ≤ 0.05 ppm	Pb ..... ≤ 0.1 ppm
Alcohol miscibility ..... Complete	Acidity (acetic acid) ..... ≤ 30 ppm	Co ..... ≤ 0.02 ppm	Sn ..... ≤ 0.1 ppm
Diethyl ether miscib. .... Complete	Aldehydes(Formaldehyde) ..... ≤ 20 ppm	Cr ..... ≤ 0.02 ppm	Zn ..... ≤ 0.1 ppm
Water solubility ..... Conform	Heavy metals (Pb) ..... ≤ 1 ppm	Cu ..... ≤ 0.02 ppm	Assay (GLC) ..... ≥ 99.5 %
Density at 20° C ..... 0.802 ÷ 0.808	Subst. reducing KMnO4 ..... ≤ 2 ppm(15m)	Fe ..... ≤ 0.1 ppm	
Refractive index at 20°C. 1.3784 ÷ 1.3834	Al ..... ≤ 0.5 ppm	Mg ..... ≤ 0.1 ppm	

Code	Size	Packaging	Notes
462701	1 l	Glass bottle	
462703	2.5 l	Glass bottle	
462704	10 l	Plastic tank	
462702	22 kg	Metal drum	

### Ethyl methyl ketone > RE - Pure

RE

Description ..... Clear colourless liquid	Density at 20° C ..... 0.800 ÷ 0.810	Water (K.F.) ..... ≤ 0.1 %	Total alcohol ..... ≤ 0.5 %
Identification ..... Positive	Refractive index at 20°C. 1.3784 ÷ 1.3844	Residue on evaporation ..... ≤ 20 ppm	Assay (GLC) ..... ≥ 99.5 %
Colour ..... ≤ 10 APHA	Boiling point ..... 79 ÷ 80 °C	Acidity (acetic acid) ..... ≤ 30 ppm	

Code	Size	Packaging	Notes
354254	1 l	Glass bottle	
354253	2.5 l	Glass bottle	
528975	5 l	Plastic tank	
354251	22 kg	Metal drum	
528976	25 l	Metal drum	
528977	200 l	Metal drum	

**Eugenol**

• Eugenolo • Eugenol • Eugenol • Eugenol

## Synonym:

- 2-Methoxy-4-(2-propenyl)phenol
- 4-Allyl-2-methoxyphenol

C<sub>10</sub>H<sub>12</sub>O<sub>2</sub>  
 Molecular Weight: 164,21  
 CAS: 97-53-0  
 EEC-N: 202-589-1

**Warning**

H302-H317

P261-P264-P280g-P301+P312a-P333+P313-P501a

**Eugenol > RPE - For analysis****RPE**

Description ..... Yellow clear liquid    Density at 20° C ..... 1.05 ÷ 1.07    Assay (GLC) ..... ≥ 96 %  
 Identification ..... Positive    Refractive index at 20°C ..... 1.53 ÷ 1.54

Code	Size	Packaging	Notes
449773	100 ml	Glass bottle	

**Eukitt**

• Eukitt • EUKITT • Eukitt • EUKITT

**Classification transport**

ONU: 1307  
 Transport Hazard class: 3  
 Packing group III

**Danger**

H226-H315-H319-H335-H304

P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233

**Eukitt > RS - For microscopy****RS**

Description ..... Viscous liquid    Identification ..... Positive

Code	Size	Packaging	Notes
554194	100 ml	Aluminium bottle	
554193	250 ml	Aluminium bottle	
554192	500 ml	Aluminium bottle	

**Balm rapid inclusion****Europium standard solution**

• Europio standard soluzione • Europium solution standard • Europio, solución patrón • Europium-Standardlösung

**Classification transport**

ONU: 3264  
 Transport Hazard class: 8  
 Packing group III

**Europium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505602	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505605	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Europium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503571	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503575	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503573	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503577	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Europium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507736	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507502	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

**Fast green FCF**

• Verde solido FCF • Vert solide FCF • Verde sólido FCF • Schneller grüner FCF

Synonym:  
Food green 3

$C_{37}H_{34}N_2Na_2O_{10}S_3$   
Molecular Weight: 808,86  
CAS: 2353-45-9  
EEC-N: 219-091-5

**Warning**

H302-H312-H332-H351  
P261-P271-P280-P304+P340-P308+P313-P330

**Fast green FCF > RS - For microscopy - C.I. 42053**

RS

Description ..... Red brown powder Identification ..... Positive

Code	Size	Packaging	Notes
491391	25 g	Glass bottle	

**Dye for histology****Fehling's A reagent**

• Fehling reattivo soluzione A • Réactif de Fehling solution A • Fehling reactivo solución A • Fehling-Reagenzlösung A

**Classification transport**

ONU: 3082  
Transport Hazard class: 9  
Packing group III

**Danger**

H318-H410  
P273-P280i-P305+P351+P338-P310a-P391-P501a

**Fehling's A reagent > RS - For glucose detection**

RS

CuSO<sub>4</sub>.5H<sub>2</sub>O content ..... 69.16 - 69.43 g/l Description ..... Clear blue liquid Density at 20° C ..... 1.037 - 1.043 [CuSO<sub>4</sub>.5H<sub>2</sub>O] ..... 69.12 - 69.40 g/l

Code	Size	Packaging	Notes
449926	500 ml	Plastic bottle	
449927	1 l	Plastic bottle	
PS0492/41	10 l	Plastic tank	

**Composition: Copper sulfate and benzoic acid****Fehling's B reagent**

• Fehling reattivo soluzione B • Réactif de Fehling solution B • Fehling reactivo solución B • Fehling-Reagenzlösung B

**Classification transport**

ONU: 1824  
Transport Hazard class: 8  
Packing group II

**Danger**

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Fehling's B reagent > RS - For glucose detection**

RS

Concentration ..... 345.3 - 346.7 g/l Description ..... Clear colourless liquid Density at 20° C ..... 1.259 - 1.265 Alkalinity (NaOH) ..... 119 - 121 0/00

Code	Size	Packaging	Notes
E449936	500 ml	Plastic bottle	
E449937	1 l	Plastic bottle	
PS0493/41	10 l	Plastic tank	

**Composition: Potassium sodium tartrate and sodium hydroxide****Ferricyanide standard solution**

• Ferricianuro standard soluzione • Ferricyanures standard solution • Ferricianuro, solución patrón • Ferricyanid-Standardlösung

**Ferricyanide standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615001300	100 ml	Plastic bottle	A 50 ppm solution: to dilute according to Ph.Eur 5001300



## Ferrocyanide standard solution

• Ferrocianuro standard soluzione • Ferrocyanures standard solution • Ferrocianuro, solución patrón • Ferrocyanid-Standardlösung

### Ferrocyanide standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001209	100 ml	Plastic bottle	A 100 ppm solution: to dilute according to Ph.Eur 5001200



## Ferroun 0.025 mol/l solution

• Ferroina 0.025 mol/l soluzione • Indicateur Ferroïne 0.025 mol/l • Ferroína solución 0.025 mol/l  
• Indikator Ferroun 0.025 mol/l

Synonym:

- 1,10-Phenanthroline iron(II) sulfate complex
- o-Phenanthroline ferrous sulfate complex

$[\text{Fe}(\text{C}_{12}\text{H}_8\text{N}_2)_3]\text{SO}_4$   
Molecular Weight: 692,52  
CAS: 14634-91-4

H412  
P273-P501a

### Ferroun 0.025 mol/l solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611038100	100 ml	Plastic bottle	Ref Ph.Eur 1038100

### Ferroun 0.025 mol/l solution > RS - For environmental analysis (COD determination)

RS

Description ..... Dark red liquid

Code	Size	Packaging	Notes
526751	100 ml	Bottle	



## Ferron

• Ferron • Ferron • Ferron • Ferron

$\text{IC}_6\text{H}(\text{OH})\text{SO}_3\text{HN}:\text{CHCH}:\text{CH}$   
Molecular Weight: 351,12  
CAS: 547-91-1  
EEC-N: 208-938-4

**Classification transport**  
ONU: 2585  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Ferron > RPE - For analysis

RPE

Description ..... Yellow crystalline powder  
Identification ..... Positive  
Loss on drying ..... ≤0.5 %  
Heavy metals (Pb) ..... ≤20 ppm  
Residue on ignition ..... ≤0.1 %  
Iron sensitivity ..... ≥5 µg/ml  
Fe ..... ≤20 ppm

Code	Size	Packaging	Notes
406918	5 g	Glass bottle	

**For extraction and spectrophotometric determination of Mo (VI), Pd (II), U (VI), V (III)**



## Fixative AFA liquid

• Liquido fissatore AFA • Liquide fixateur AFA • Líquido fijador AFA • AFA-Fixiererflüssigkeit

**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H317-H350-HA26  
P210-P241-P261-P280-P303+P361+P353-  
P305+P351+P338

### Fixative AFA liquid > RS - For histology

RS

Description ..... Clear liquid

Code	Size	Packaging	Notes
508840	480 x 30 ml	Plastic bottle	60 ml jars filled at 30 ml. Box of 500
526267	1 l	Plastic bottle	In Vitro Diagnostic Medical Device
526263001	5 l	Plastic tank	In Vitro Diagnostic Medical Device

**Contains Ethanol, formaldehyde and acetic acid**



## Fixative Bouin Hollande liquid

• Liquido fissatore di Bouin Hollande • Liquide de Bouin Hollande • Líquido fijador de Bouin Holland • Alkohol Bouin Holland



### Danger

H317-H350-HA26  
P261-P280-P308+P313-P362+P364-P333+P313-P501a

### Fixative Bouin Hollande liquid > RS - For histology

RS

Appearance ..... Clear liquid

Code	Size	Packaging	Notes
526268	1 l	Plastic bottle	



## Fixative Bouin liquid

• Liquido fissatore di Bouin • Liquide de Bouin • Líquido fijador de Bouin • Bouins Pikroformol Wasserlisch



### Danger

H315-H319-H317-H341-H350-H335-HA26  
P261-P271-P280-P304+P340-P305+P351+P338-P403+P233

### Fixative Bouin liquid > RS - For histology

RS

Appearance ..... Yellow liquid

Code	Size	Packaging	Notes
526270	1 l	Plastic bottle	In Vitro Diagnostic Medical Device
526261	5 l	Plastic tank	In Vitro Diagnostic Medical Device
526311	25 l	Plastic tank	In Vitro Diagnostic Medical Device

**Contains formaldehyde, acetic acid and 2.4.6-trinitrophenol**

### Fixative Bouin liquid > RS - For hematology

RS

Description ..... Yellow clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
429751	1 l	Plastic bottle	In Vitro Diagnostic Medical Device



## Fixative Davidson liquid

• Liquido fissatore di Davidson • Liquide fixateur de Davidson • Líquido fijador de Davidson • Davidson Fixiererflüssigkeit

### Classification transport

ONU: 2924  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H312-H332-H314-H317-H341-H350-H335-HA26  
P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P362+P364-P403+P233

### Fixative Davidson liquid > RS - For histology

RS

Description ..... Clear colourless liquid

Code	Size	Packaging	Notes
508881	30 ml	Plastic bottle	60 ml jars filled at 30 ml. Box of 500
526277	5 l	Plastic tank	

**Fixative FIXALL-HIS liquid**  
 • Liquido fissatore FIXALL-HIS • Liquide fixateur FIXALL-HIS • Líquido fijador FIXALL-HIS • Fixierflüssigkeit FIXALL-HIS

<b>Classification transport</b> ONU: 1170 Transport Hazard class: 3 Packing group II	 	<b>Danger</b> H225-H319 P210-P241-P280-P303+P361+P353- P305+P351+P338-P337+P313
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**Fixative FIXALL-HIS liquid > RS - For histology** RS

Code	Size	Packaging	Notes
526274	5 l	Plastic tank	

**Formaldehyde substitute. Ready-to-use solution**

**Fixative liquid without acetic acid**  
 • Liquido fissatore senza acido acetico • Liquide fixateur sans acide acétique • Líquido fijador sin acido acético • Fixierflüssigkeit ohne Essigsäure

<b>Classification transport</b> ONU: 1993 Transport Hazard class: 3 Packing group III	  	<b>Danger</b> H226-H312-H332-H315-H319-H317-H341-H350- H335-HA26 P210-P280-P303+P361+P353-P304+P340- P305+P351+P338-P403+P233
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**Fixative liquid without acetic acid > RS - For histology** RS

Description ..... Clear colourless liquid

Code	Size	Packaging	Notes
526264	10 l	Plastic tank	

**Florisol 60-100 mesh** Synonym:  
Magnesium silicate  
 • Florisol 60-100 mesh • Florisol 60-100 mesh • Florisol 60-100 mesh • Florisol 60-100 mesh

MgO <sub>3</sub> Si Molecular Weight: 100,39 CAS: 1343-88-0 EEC-N: 215-681-1
---

**Florisol 60-100 mesh > RS - Adsorbent for chromatography** RS

Description ..... White powder      Identification ..... Positive

Code	Size	Packaging	Notes
452331	100 g	Plastic bottle	
452333	500 g	Plastic bottle	
452332	1 kg	Plastic bottle	

**Florisol 60-100 mesh > RS - For residual pesticides analysis** RS

Description ..... White powder      Granulometry      70 mesh.....ca 20.0 %      100 mesh.....ca 30.0 %  
 Identification ..... Positive      60 mesh.....ca 2.0 %      80 mesh.....ca 41.0 %      140 mesh.....ca 6.9 %

Code	Size	Packaging	Notes
452271	100 g	Plastic bottle	
452273	500 g	Plastic bottle	

**Florisil 100-200 mesh**

• Florisil 100-200 mesh • Florisil 100-200 mesh • Florisil 100-200 mesh • Florisil 100-200 mesh

Synonym:  
*Magnesium silicate*MgO<sub>3</sub>Si  
Molecular Weight: 100,39  
CAS: 1343-88-0  
EEC-N: 215-681-1**Florisil 100-200 mesh > RS - Adsorbent for chromatography**

RS

Description ..... White powder Identification ..... Positive

Code	Size	Packaging	Notes
452351	100 g	Plastic bottle	
452353	500 g	Plastic bottle	

**Fluorescein**

• Fluoresceina • Fluorescéine • Fluoresceína • Fluorescein

Synonym:  
*Acid Yellow 73*C<sub>20</sub>H<sub>12</sub>O<sub>5</sub>  
Molecular Weight: 332,32  
CAS: 2321-07-5  
EEC-N: 219-031-8**Warning**H319  
P264-P280i-P305+P351+P338-P337+P313**Fluorescein > RPE - For analysis**

RPE

Description ..... Red brown powder Identification ..... Positive

Code	Size	Packaging	Notes
452086	25 g	Glass bottle	
452083	50 g	Glass bottle	
452087	500 g	Plastic bottle	

**Fluorescein sodium salt**

• Fluoresceina sodica • Fluorescéine sodique • Fluoresceína sódica • Fluorescein Natriumsalz

Synonym:  
• *Acid Yellow 73*  
• *Uranine*C<sub>20</sub>H<sub>10</sub>Na<sub>2</sub>O<sub>5</sub>  
Molecular Weight: 376,28  
CAS: 518-47-8  
EEC-N: 208-253-0**Fluorescein sodium salt > RPE - For analysis - C.I. 45350**

RPE

Description ..... Red brick powder Identification ..... Positive Absorbion ind.sensit. .... Conform Loss on drying ..... ≤10 %

Code	Size	Packaging	Notes
452112	25 g	Glass bottle	
452113	50 g	Plastic bottle	
452117	1 kg	Plastic bottle	

**Fluorescein sodium salt > RE - Pure - C.I. 45350**

RE

Description ..... Red brick powder Identification ..... Positive

Code	Size	Packaging	Notes
345356	25 g	Glass bottle	
345357	1 kg	Plastic bottle	
345355	5 kg	Plastic tank	





## Fluoride standard solution

• Fluoruri standard soluzione • Fluorure solution standard • Fluoruro, solución patrón • Fluorid-Standardlösung

### Fluoride standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001401	100 ml	Plastic bottle	A 1 ppm solution: to dilute according to Ref Ph.Eur 5001401
615001409	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001400

### Fluoride standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503251	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503253	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Fluorite ► Calcium fluoride



## Folin-Ciocalteu's reagent

• Folin-Ciocalteu reattivo • Réactif de Folin-Ciocalteu • Folin-Ciocalteu reactivo • Folin-Ciocalteu-Reagenz

### Classification transport

ONU: 3264  
Transport Hazard class: LQ



### Danger

H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Folin-Ciocalteu's reagent > RS - For microscopy

RS

Description ..... Yellow clear liquid    Identification ..... Positive    Sensibilità ai fenoli (A a 650nm) ..... ≥ 0.26    Titolo (equiv. di acido) ..... 1.9 ÷ 2.1 N

Code	Size	Packaging	Notes
E463562	500 ml	Glass bottle	

**For the determination of phenols. Store at +4 °C**



## Formaldehyde 37% w/v

• Aldeide formica 37% m/v • Aldéhyde formique 37% m/v • Formaldehído 37% p/v • Formaldehyd 37% w/v

Synonym:  
Formalin

HCHO  
Molecular Weight: 30,03  
CAS: 50-00-0

### Classification transport

ONU: 2209  
Transport Hazard class: 8  
Packing group III



### Danger

H301-H311-H331-H314-H317-H341-H350-H370-  
H335-HA26  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P403+P233

### Formaldehyde 37% w/v > RPE - For analysis

RPE

Description ..... Clear liquid    Density at 20°C ..... 1.085 ÷ 1.092    Heavy metals (Pb) ..... ≤2 ppm    Fe ..... ≤1 ppm  
Colour (APHA) ..... ≤10    Acidity (formic acid) ..... ≤350 ppm    Residue on ignition ..... ≤500 ppm    Pb ..... ≤1 ppm  
Identification ..... Positive    Chloride ..... ≤5 ppm    Sulphate ..... ≤20 ppm    Assay (oxidimetric) ..... ≥37 % (m/v)

Code	Size	Packaging	Notes
415661	1 l	Plastic bottle	
415666	2.5 l	Plastic bottle	
415667	5 l	Plastic bottle	
415669	30 kg	Plastic drum	
415662	55 kg	Plastic tank	

**Stabilized with ~10% of methanol**

**Formaldehyde 37% w/v neutralized**

- Aldeide formica 37% p/v neutralizzata • Aldéhyde formique 37% m/v neutre
- Formaldehido 37% p/v neutralizata • Formaldehyd 37% m / v neutral

Synonym:  
Formalin

HCHO  
Molecular Weight: 30,03  
CAS: 50-00-0

**Classification transport**  
ONU: 2209  
Transport Hazard class: 8  
Packing group III

**Danger**

H301-H311-H331-H314-H317-H341-H350-H370-  
H335-HA26  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P403+P233

**Formaldehyde 37% w/v neutralized > RS - For histology****RS**

Description ..... Clear liquid    Colour (APHA) ..... ≤ 10    Identification ..... Positive    Assay (oxidimetric) ..... ≥ 37 % (m/v)

Code	Size	Packaging	Notes
415686	1 l	Plastic bottle	
415682	5 l	Plastic bottle	
415683	10 kg	Plastic tank	
415684	30 kg	Plastic drum	
415685	55 kg	Plastic tank	

**Stabilized with ~10% of methanol. Neutralized with dolomite**

**Formaldehyde 35% w/w**

- Aldeide formica 35% m/m • Aldéhyde formique 35% m/m • Formaldehyde 35% p/p
- Formaldehyd 35% m/m

Synonym:  
Formalin

HCHO  
Molecular Weight: 30,03  
CAS: 50-00-0

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group III

**Danger**

H302-H311-H331-H314-H317-H341-H350-H335-  
HA26  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P308+P313-  
P361+P364-P403+P233

**Formaldehyde 35% w/w > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**



Code	Size	Packaging	Notes
611039101	100 ml	Plastic bottle	Ref Ph.Eur 1039101

**Formaldehyde 35% w/w > ERBApharm - According to pharmacopoeia: BP-FU-Ph.Eur.****ERBApharm**

Description ..... Clear colourless liquid    Appearance of solution ..... Conform Ph.Eur.    Sulphated ash ..... ≤ 0.1 %    Assay (iodometric) ..... 34.5 ÷ 38.0 % m/m  
Identification ..... Positive    Acidity ..... Conform Ph.Eur.    Methyl alcohol ..... 9.0 ÷ 15.0 % v/v    Origin (BSE/TSE) ..... Synthesis

Code	Size	Packaging	Notes
310351	1 l	Plastic bottle	
310356	2.5 l	Plastic bottle	
310358	5 l	Plastic bottle	
310349	10 kg	Plastic tank	
310348	30 kg	Plastic drum	
310355	55 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

	<b>Formaldehyde 30% w/v</b>		Synonym: <i>Formalin</i>
	<ul style="list-style-type: none"> <li>• Aldeide formica 30 % m/v • Aldéhyde formique 30% m/v • Formaldehído 30% p/v • Formaldehyd 30% m/v</li> </ul>		
<p>HCHO Molecular Weight: 30,03 CAS: 50-00-0</p>	<p><b>Classification transport</b> ONU: 2209 Transport Hazard class: 8 Packing group III</p>		<p><b>Danger</b> H302-H311-H331-H314-H317-H341-H350-H371-H335-HA26 P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P361+P364-P403+P233</p>



<b>Formaldehyde 30% w/v &gt; RE - Pure</b>			<b>RE</b>
Description .....	Clear colourless liquid	Density at 20°C .....	1.075 ÷ 1.100
Assay .....	27.5 ÷ 32.5 % (m/v)		
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
524930	5 l	Plastic tank	

**Stabilized with ~10% of methanol**

	<b>Formaldehyde 10% v/v according to Lillie</b>		Synonym: <i>Formalin</i>
	<ul style="list-style-type: none"> <li>• Aldeide formica 10% v/v (Liquido di Lille) • Aldéhyde formique 10% v/v selon Lillie</li> <li>• Formaldehído 10% v/v según Lillie • Formaldehyd 10% v/v Lillie</li> </ul>		
<p>HCHO Molecular Weight: 30,03 CAS: 50-00-0</p>			<p><b>Danger</b> H317-H341-H350-HA26 P261-P280-P308+P313-P362+P364-P333+P313-P501a</p>

<b>Formaldehyde 10% v/v according to Lillie &gt; RS - For histology</b>			<b>RS</b>
Description .....	Clear colourless liquid	pH at 20°C .....	6.8 ÷ 7.0
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
526912	5 l	Plastic tank	
526911	25 l	Plastic tank	

**Stabilized with ~10% of methanol. Buffered at pH 7 with phosphate salts**

	<b>Formaldehyde 5% w/v buffered at pH 6.9</b>		Synonym: <i>Formalin</i>
	<ul style="list-style-type: none"> <li>• Aldeide formica 5% m/v tamponata pH 6.9 • Aldéhyde formique 5% m/v tamponné à pH 6.9</li> <li>• Formaldehído 5% p/v tamponata pH 6.9 • Formaldehyd 5% m/v pH 6.9 gepuffert</li> </ul>		
<p>HCHO Molecular Weight: 30,03 CAS: 50-00-0</p>			<p><b>Danger</b> H317-H341-H350-HA26 P261-P280-P308+P313-P362+P364-P333+P313-P501a</p>

<b>Formaldehyde 5% w/v buffered at pH 6.9 &gt; RS - For histology</b>			<b>RS</b>
Description .....	Clear colourless liquid	pH at 20°C .....	6.9 - 7.1
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
415674	5 l	Plastic tank	
415672	10 l	Plastic tank	

**Buffered at pH 7 with phosphate salts**

**Formaldehyde 4% w/v buffered at pH 6.9**

- Aldeide formica 4% m/v tamponata pH 6.9 • Aldéhyde formique 4% m/v tamponné à pH 6.9
- Formaldehido 4% p/v tamponata pH 6.9 • Formaldehyd 4% m/v pH 6.9 gepuffert

Synonym:  
Formalin

HCHO  
Molecular Weight: 30,03  
CAS: 50-00-0

**Danger**

H317-H341-H350-HA26  
P261-P280-P308+P313-P362+P364-P333+P313-P501a

**Formaldehyde 4% w/v buffered at pH 6.9 > RS - For histology - CE - IVD****RS**

Code	Size	Packaging	Notes
415634	1 l	Plastic bottle	In Vitro Diagnostic Medical Device
415631	5 l	Plastic bottle	In Vitro Diagnostic Medical Device
415633	10 l	Kubidos	In Vitro Diagnostic Medical Device
415636	20 l	Plastic tank	In Vitro Diagnostic Medical Device

**For specifications, contact our customer service for a certificate of analysis**

**Formaldehyde 4% w/v buffered at pH 6.9 > RS - For histology****RS**

Description ..... Clear colourless liquid      Identification ..... Positive      pH at 20° C ..... 6.8 ÷ 7.0      Density at 20° C ..... ≥ 1.00  
pH at 20° C ..... 6.8 ÷ 7.0      Density at 20° C ..... ≥ 1.00      Assay (oxydimetric) ..... ≥ 4.0 %      Assay (oxidimetric) ..... 3.9 - 4.1 %

Code	Size	Packaging	Notes
508861	30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500
508863	300 ml	Plastic jar	500 ml jars filled at 300 ml. Box of 32
524920	500 ml	Plastic bottle	
526937	800 ml	Plastic jar	1 l jar filled at 800 ml
415694	1 l	Plastic bottle	
526931	2.5 l	Metal bucket	5 l bucket filled at 2.5 l
415691	5 l	Plastic bottle	
415695	5 l	Kubidos	
526936	5 l	Plastic tank	
415693	10 l	Kubidos	
526933	10 l	Plastic tank	
415696	20 l	Kubidos	
415692	30 kg	Plastic drum	

**10% solution (v/v) buffered at pH 6.9 with phosphate ions. Stabilized with methanol**

**Formaldehyde 4% w/v with sodium chloride**

- Aldeide formica 4% m/v con sodio cloruro • Aldéhyde formique 4% m/v salé
- Formaldehido 4% p/v con sodio cloruro • Formaldehyd 4% m/v mit natriumchlorid

Synonym:  
Formalin

HCHO  
Molecular Weight: 30,03  
CAS: 50-00-0

**Danger**

H317-H341-H350-HA26  
P261-P280-P308+P313-P362+P364-P333+P313-P501a

**Formaldehyde 4% w/v with sodium chloride > RS - For histology****RS**

Description ..... Clear colourless liquid      pH at 20° C ..... 7.30 ÷ 7.40      Stabilized with 1% of methyl alcohol

Code	Size	Packaging	Notes
526934	1 l	Plastic bottle	

**Formaldehyde acetic**  
 • Aldeide formica e acido acetico • Formol acétique • Formol acético • Formalin Essigsäure

Synonym:  
Formalin

HCHO  
 Molecular Weight: 30,03  
 CAS: 50-00-0



**Danger**  
 H315-H319-H317-H341-H350-H335-HA26  
 P261-P271-P280-P304+P340-P305+P351+P338-P403+P233

**Formaldehyde acetic > RS - For histology**

RS

Description ..... Clear colourless liquid

Code	Size	Packaging	Notes
508871	480 x 30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500
526231	1 l	Plastic bottle	
526273	5 l	Plastic tank	

**Formamide**  
 • Formammide • Formamide • Formamida • Formamid

Synonym:  
Formic amide

HCONH<sub>2</sub>  
 Molecular Weight: 45,02  
 CAS: 75-12-7  
 EEC-N: 200-842-0



**Danger**  
 H351-H360D-H373-HA26  
 P260-P280-P308+P313-P314-P405-P501a

**Formamide > RS - Anhydrous - For analysis**

RS

Refractive index at 20°C ..... 1.445 - 1.449    Colour ..... ≤ 10 Hazen    Methanol ..... ≤ 0.2 %  
 Water content (K.F.) ..... ≤ 500 mg/Kg    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P6151010	200 ml	Bottle with septum	

**Formamide > RPE - For analysis - ACS**

RPE

Description ..... Clear liquid    Identification ..... Positive    Assay (GLC) ..... ≥ 99.5 %  
 Colour (APHA) ..... ≤ 10    Freezing point ..... 2.0 ÷ 3.0 °C

Code	Size	Packaging	Notes
452282	250 ml	Glass bottle	
452286	1 l	Glass bottle	

**Formic acid 99%**  
 • Acido formico 99% • Acide formique 99% • Acido fórmico 99% • Ameisensäure 99%

HCOOH  
 Molecular Weight: 46,03  
 CAS: 64-18-6  
 EEC-N: 200-579-1

**Classification transport**  
 ONU: 1779  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H226-H302-H331-H314-HEU071  
 P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P403+P233

**Formic acid 99% > RS - For LC/MS**

RS

Description ..... Clear colourless liquid    Residue on evaporation ..... ≤10 ppm    at 280 nm ..... ≥ 95 %    Na ..... ≤ 0.5 ppm  
 Colour (APHA) ..... ≤10    Assay (acidimetric) ..... ≥99.0 %    at 300 nm ..... ≥ 98 %    Ca ..... ≤ 0.2 ppm  
 Refractive index at 20°C. 1.3709 ÷ 1.3719    U.V. Transmittance ..... ≥ 99 %    at 320 nm ..... ≥ 99 %    Mg ..... ≤ 0.1 ppm  
 Density at 20° C ..... 1.218 ÷ 1.222    at 260 nm ..... ≥ 20 %    Al ..... ≤ 0.05 ppm    K ..... ≤ 0.1 ppm  
 Boiling point ..... 100.2 - 101.2 °C    at 270 nm ..... ≥ 85 %    Fe ..... ≤ 0.2 ppm

Code	Size	Packaging	Notes
405821	10 x 1 ml	Glass ampoule	
405822	10 x 2.5 ml	Glass ampoule	
405823	50 ml	Plastic bottle	
405824	1 l	Glass bottle	

**Formic acid 99% > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	Clear liquid	Chloride .....	≤5 ppm	Cd .....	≤0.05 ppm	Na .....	≤0.5 ppm
Colour (APHA) .....	≤10	Heavy metals (Pb) .....	≤2 ppm	Co .....	≤0.02 ppm	Ni .....	≤0.2 ppm
Water miscibility .....	Conform	Oxalate .....	≤50 ppm	Cr .....	≤0.05 ppm	Pb .....	≤0.02 ppm
Density at 20° C .....	1.218 ÷ 1.222	Sulphate .....	≤5 ppm	Cu .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Refractive index at 20°C .....	1.3709 ÷ 1.3719	Sulphite .....	≤10 ppm	Fe .....	≤2 ppm	V .....	≤0.05 ppm
Boiling point .....	100.2 ÷ 101.2 °C	Ag .....	≤0.02 ppm	K .....	≤0.1 ppm	Zn .....	≤0.05 ppm
Residue on evaporation .....	≤20 ppm	Al .....	≤0.05 ppm	Li .....	≤0.02 ppm	Assay (acidimetric) .....	≥98 %
Acetic acid .....	≤500 ppm	Ba .....	≤0.05 ppm	Mg .....	≤0.5 ppm		
Ammonium .....	≤10 ppm	Bi .....	≤0.1 ppm	Mn .....	≤0.05 ppm		
Total nitrogen .....	≤20 ppm	Ca .....	≤0.2 ppm	Mo .....	≤0.02 ppm		

Code	Size	Packaging	Notes
405792	1 l	Glass bottle	
405793	5 l	Plastic tank	
405794	30 kg	Plastic drum	

**Formic acid 99% > ERBApharm - According to pharmacopoeia: DAB****ERBApharm**

Description .....	Clear colourless liquid	Density at 20° C .....	1.218 ÷ 1.222	Origin (BSE/TSE) .....	Synthesis
Identification .....	Positive	Assay (acidimetric) .....	≥ 98 % m/m		

Code	Size	Packaging	Notes
303911	1 l	Glass bottle	
303912	2.5 l	Glass bottle	
303913	30 kg	Plastic drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Formic acid 85%**

• Acido formico 85% • Acide formique 85% • Acido fórmico 85% • Ameisensäure 85%

HCOOH	<b>Classification transport</b>		<b>Danger</b>
Molecular Weight: 46,03	ONU: 1779		H226-H302-H331-H314
CAS: 64-18-6	Transport Hazard class: 8		P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P403+P233
	Packing group II		

**Formic acid 85% > RPE - For analysis****RPE**

Description .....	Clear liquid	Total nitrogen .....	≤20 ppm	Bi .....	≤0.1 ppm	Mg .....	≤0.5 ppm
Colour (APHA) .....	≤10	Chloride .....	≤5 ppm	Cd .....	≤0.05 ppm	Mn .....	≤0.05 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤2 ppm	Co .....	≤0.02 ppm	Mo .....	≤0.02 ppm
Water miscibility .....	Conform	Oxalate .....	≤50 ppm	Cr .....	≤0.05 ppm	Ni .....	≤0.2 ppm
Density at 20° C .....	1.196 ÷ 1.199	Sulphate .....	≤5 ppm	Cu .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Residue on evaporation .....	≤20 ppm	Sulphite .....	≤10 ppm	Fe .....	≤2 ppm	V .....	≤0.05 ppm
Acidity (acetic acid) .....	≤500 ppm	Ag .....	≤0.02 ppm	K .....	≤0.1 ppm	Zn .....	≤0.05 ppm
Ammonium .....	≤10 ppm	Ba .....	≤0.05 ppm	Li .....	≤0.02 ppm	Assay (acidimetric) .....	85 ÷ 87 %

Code	Size	Packaging	Notes
405832	1 l	Glass bottle	
405833	2.5 l	Glass bottle	
405835	30 kg	Plastic drum	

**Formic acid 85% > RE - Pure****RE**

Description .....	Clear liquid	Residue on evaporation .....	≤0.5 %	Sulphate .....	≤300 ppm
Identification .....	Positive	Chloride .....	≤100 ppm	Fe .....	≤50 ppm
Density at 20° C .....	1.196 ÷ 1.199	Heavy metals (Pb) .....	≤50 ppm	Assay (acidimetric) .....	85 ÷ 87 %

Code	Size	Packaging	Notes
303905	1 l	Glass bottle	
303901	30 kg	Plastic drum	





## Formic acid-d

• Acido formico-d • Acide formique-d • Acido fórmico-d • Ameisensäure-d

HCOOD

Molecular Weight: 47,03

CAS: 925-94-0

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group I



### Danger

H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Formic acid-d > RS - For NMR - min 97%

RS

Code	Size	Packaging	Notes
P5733	5 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**

Formic acid ammonium salt ▶ Ammonium formate

Formic acid ethyl ester ▶ Ethyl formate



## D(-)Fructose

• D(-)Fruttosio • D(-)Fructose • D(-)Fructosa • Lävulose

C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

Molecular Weight: 180,16

CAS: 57-48-7

EEC-N: 200-333-3

### D(-)Fructose > RPE - For analysis

RPE

Description .....	White powder	Specific optical rotation.....	-93.0 ÷ -91.0 °	Heavy metals (Pb).....	≤10 ppm	Assay .....	≥ 99.5 %
Identification .....	Positive	Water (K.F.).....	≤ 0.5 %	Sulphate.....	≤50 ppm		
Melting point.....	101.5 ÷ 104.5 ° C	Chloride.....	≤40 ppm	As .....	≤1 ppm		

Code	Size	Packaging	Notes
452665	100 g	Plastic bottle	
452666	500 g	Plastic bottle	



## Fuchsin acid

• Fucsina acida • Fuchsine acide • Fucsina ácida • Säurefuchsin

Synonym:

Acid Violet 19

C<sub>20</sub>H<sub>17</sub>N<sub>3</sub>Na<sub>2</sub>O<sub>9</sub>S<sub>3</sub>

Molecular Weight: 585,6

CAS: 3244-88-0

EEC-N: 221-816-5

### Fuchsin acid > RPE - For analysis - C.I. 42685

RPE

Description .....	Dark green crystals	Identification .....	Positive	Decolorization with SO <sub>2</sub> .....	Conform
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Code	Size	Packaging	Notes
452812	25 g	Glass bottle	
452814	100 g	Plastic bottle	

**Dye for microscopy (botanical-histology). Indicator acid - base (pH 12.0 ÷ 14.0)**



## Fuchsin basic

• Fucsina basica • Fuchsine basique • Fucsina básica • Fuchsin

Synonym:  
Basic Violet 14

$C_{20}H_{20}ClN_3$   
Molecular Weight: 337,85  
CAS: 632-99-5  
EEC-N: 211-189-6



### Warning

H315-H319-H351-H335  
P261-P271-P280-P304+P340-P305+P351+P338-P403+P233

### Fuchsin basic > RPE - For analysis - C.I. 42510

RPE

Description ..... Green crystals Identification ..... Positive Decolorization with SO<sub>2</sub> ..... Conform

Code	Size	Packaging	Notes
452842	25 g	Glass bottle	
452844	100 g	Plastic bottle	

Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 1.0 ÷ 3.1)



## Fuchsin solution decolorised

• Fucsina decolorata soluzione • Fuchsine décolorée solution • Fucsina solución decolorizada  
• Fuchsine verfärbte Lösung

Synonym:  
Basic Violet 14

$C_{20}H_{20}ClN_3$   
Molecular Weight: 337,85  
CAS: 632-99-5



### Warning

H290  
P234-P390-P406

### Fuchsin solution decolorised > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611039401	100 ml	Glass bottle	Ref Ph.Eur 1039401
611039402	100 ml	Glass bottle	Fuchsin solution, decolorised R1 Ref Ph.Eur 1039402



## Fumaric acid

• Acido fumarico • Acide fumarique • Acido fumárico • Fumarsäure

HOOCCH:CHCOOH  
Molecular Weight: 116,07  
CAS: 110-17-8  
EEC-N: 203-743-0



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Fumaric acid > RPE - For analysis

RPE

Description ..... White crystal powder Water (K.F.) ..... ≤ 0.5 % Heavy metals (Pb) ..... ≤ 10 ppm Maleic acid ..... ≤ 0.1 %  
Identification ..... Positive Assay (dried base) ..... 99.5 ÷ 100.5 % Residue on ignition ..... ≤ 100 ppm

Code	Size	Packaging	Notes
406284	100 g	Glass bottle	
406287	1 kg	Plastic bottle	



## Gadolinium standard solution

• Gadolinio standard soluzione • Gadolinium solution standard • Gadolinio, solución patrón • Gadolinium-Standardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Gadolinium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505622	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505625	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Gadolinium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503601	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503603	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503605	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503607	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Gadolinium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507737	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507504	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## D(+)-Galactose

• D(+)-Galattosio • D(+)-Galactose • D(+)-Galactosa • D(+)-Galactose

CH<sub>2</sub>OHCH(CHOH)<sub>3</sub>CHOH

Molecular Weight: 180,16

CAS: 59-23-4

EEC-N: 200-416-4

### D(+)-Galactose > RPE - For analysis

RPE

Description ..... White powder Potere rotat. spec. a20°C (C=10;H20;NH3) ..+78 ÷ +81.5 ° Water (K.F.) .....≤ 0.3 %  
Identification ..... Positive (s.s.) Sulphated ash.....≤ 0.1 %

Code	Size	Packaging	Notes
453125	250 g	Plastic bottle	
453126	1 kg	Plastic bottle	

**Gallic acid monohydrate**

- Acido gallico monoidrato • Acide gallique monohydraté • Acido gálico monohidrato
- Gallussäure monohydrat

Synonym:  
3,4,5-Trihydroxybenzoic acid monohydrate

3,4,5-(OH)<sub>3</sub>C<sub>6</sub>H<sub>2</sub>COOH.H<sub>2</sub>O  
Molecular Weight: 188,14  
CAS: 5995-86-8  
EEC-N: 205-749-9

**Warning**

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Gallic acid monohydrate > RPE - For analysis****RPE**

Description ..... White powder      Loss on drying ..... ≤ 10 %      Sulphated ash ..... ≤ 0.1 %  
Identification ..... Positive      Sulphate ..... ≤ 200 ppm      Assay (acidimetric) ..... ≥ 99.0 % (s.s.)

Code	Size	Packaging	Notes
406335	250 g	Plastic bottle	
406336	1 kg	Plastic bottle	

**Gallic acid monohydrate > RE - Pure****RE**

Description ..... Yellow crystalline powder      Loss on drying 100° C ..... ≤ 10 %      Sulphate ..... ≤ 500 ppm  
Identification ..... Positive      Residue on ignition ..... ≤ 0.1 %

Code	Size	Packaging	Notes
304201	1 kg	Plastic bottle	

**Gallium standard solution**

- Gallio standard soluzione • Gallium standard solution • Galio solución estándar • Gallium-Standardlösung

**Classification transport**

ONU: 3264  
Transport Hazard class: 8  
Packing group II

**Danger**

H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Gallium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505617	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505618	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505619	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Gallium standard solution > RS - Standard solution for AAS****RS**

Code	Size	Packaging	Notes
507739	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507503	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Gardner Colour Standards

• Standard Gardner del colore • Etalons couleurs Gardner • Patrones de color Gardner • Gardner Farbstandards

### Gardner Colour Standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540701	100 ml	Glass bottle	Colour 2
540702	100 ml	Glass bottle	Colour 4
540703	100 ml	Glass bottle	Colour 6
540704	100 ml	Glass bottle	Colour 8
540705	100 ml	Glass bottle	Colour 10
540706	100 ml	Glass bottle	Colour 12
540707	100 ml	Glass bottle	Colour 14
540708	100 ml	Glass bottle	Colour 16



## Gelatine

• Gelatina • Gélatine • Gelatina • Gelatine

CAS: 9000-70-8

EEC-N: 232-554-6

### Gelatine > RS - For microbiology

RS

Description ..... Yellowish crystalline powder Identification ..... Positive Loss on drying ..... ≤ 13 % Sulphated ash ..... ≤ 2 %

Code	Size	Packaging	Notes
453226	500 g	Plastic bottle	



## Gentian violet

• Violetto genziana • Violet de gentiane • Violeta de genciana • Enzianviolett

Synonym:

- Crystal violet solution
- Basic violet 3

$C_{25}H_{30}N_3$

Molecular Weight: 407,99

CAS: 548-62-9

EEC-N: 208-953-6



**Danger**

H302-H318-H351-H410

P264-P280-P301+P312a-P305+P351+P338-P310a-P308+P313

### Gentian violet > RE - Pure

RE

Description ..... Dark green powder Identification ..... Positive Loss on drying 100° C ..... ≤ 10 %

Code	Size	Packaging	Notes
388703	25 g	Glass bottle	
388701	50 g	Glass bottle	

**Dye for microscopy (bacteriology)**



## Gentian violet carbolated solution

• Violetto genziana soluzione fenicata • Violet de gentiane solution phéniquée • Violeta de genciana solución fenicada • Enzianviolettcarbollsung

Synonym:

- Crystal violet solution
- Basic violet 3

$C_{25}H_{30}N_3$

Molecular Weight: 407,99

CAS: 548-62-9



**Warning**

H319-H412

P264-P273-P280i-P305+P351+P338-P337+P313-P501a

### Gentian violet carbolated solution > RS - For microscopy

RS

Description ..... Violet clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
E491651	250 ml	Glass bottle	Dye for microscopy (bacteriology) according to GRAM
E491661	250 ml	Glass bottle	Dye for microscopy (bacteriology) according to NICOLLE

**Germanium standard solution**

• Germanio standard soluzione • Germanium solution standard • Germanio, solución patrón • Germanium-Standardlösung

**Germanium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615004400	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5004400

**Germanium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505632	100 ml	Plastic bottle	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid
505635	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid
505633	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Germanium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504251	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
504253	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
504255	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrofluoric acid and nitric acid
504257	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrofluoric acid and nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Germanium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507740	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507505	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Gibb's reagent ▶ 2,6-Dichloroquinone-4-chlorimide****Giemsa's reagent**

• Giemsa reattivo • Réactif de Giemsa • Giemsa reactivo • Giemsa-Reagenz

**Classification transport**ONU: 1992  
Transport Hazard class: 3  
Packing group II**Danger**H225-H301-H370  
P210-P241-P280-P301+P310a-P303+P361+P353-P403+P235**Giemsa's reagent > RS - For hematology**

RS

Description ..... Blue clear liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
453614	100 ml	Glass bottle	In Vitro Diagnostic Medical Device
E453612	6 x 100 ml	Bottle	In Vitro Diagnostic Medical Device
453616	500 ml	Bottle	In Vitro Diagnostic Medical Device
E453613	6 x 500 ml	Bottle	In Vitro Diagnostic Medical Device
453611	2.5 l	Bottle	In Vitro Diagnostic Medical Device
E453615	4 x 2.5 l	Bottle	In Vitro Diagnostic Medical Device

**Dye according hematology Romanowski**





## Glass wool

• Lana di vetro • Laine de verre • Lana de vidrio • Glaswolle

Synonym:

- Silica
- Silicon dioxide

Molecular Weight: 60,09

CAS: 65997-17-3

### Glass wool > RPE - For analysis

RPE

Description ..... Fine threads of glass

Code	Size	Packaging	Notes
457521	250 g	Carton box	

## D-Glucitol ▶ Sorbitol



## D(+)-Glucose anhydrous

• D(+)-Glucosio anidro • D(+)-Glucose anhydre • D(+)-Glucosa anhidra • D(+)-Glucose wasserfrei

Synonym:

Dextrose

CH<sub>2</sub>OHCH(CHOH)<sub>3</sub>CHOH

Molecular Weight: 180,16

CAS: 50-99-7

EEC-N: 200-075-1

### D(+)-Glucose anhydrous > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder  
 Identification ..... Positive  
 Specific optical rotation... +52.5 ÷ +53.0 °

Loss on drying ..... ≤0.2 %  
 Acidity ..... ≤0.002 meq/g  
 Starch ..... Conform

Chloride..... ≤100 ppm  
 Water-insoluble matter ..... ≤50 ppm  
 Heavy metals (Pb)..... ≤5 ppm

Residue on ignition ..... ≤200 ppm  
 Sulphat + sulphit (SO<sub>4</sub>) ..... ≤50 ppm  
 Fe ..... ≤5 ppm

Code	Size	Packaging	Notes
454335	100 g	Plastic bottle	
454336	500 g	Plastic bottle	
454337	1 kg	Plastic bottle	
454338	2.5 kg	Plastic bottle	
454333	25 kg	Plastic bucket	

### D(+)-Glucose anhydrous > ERBapharm - According to pharmacopoeia: Ph.Eur.-USP-FU-BP-DAB-JP

ERBapharm

Description ..... White crystalline powder  
 Identifications..... Positives  
 Identification IR (USP) ..... Positive  
 Appearance of solution ..... Conform  
 Soluble starch, sulfite ..... ≤ 15 ppm  
 Dextrin..... Conform  
 Specific optical rotation at 20°C (anh.)..... +52.5 ÷ +53.3 °

Sulphated ash..... ≤ 0.1 %  
 Water (K.F.) ..... ≤ 1.0 %  
 Acidity ..... Conform  
 Conductivity at 20°C ..... ≤ 20 µS/cm  
 Conductivity at 25°C ..... ≤ 20 µS/cm  
 Heavy metals (Pb)..... ≤ 4 ppm

Chloride..... ≤ 0.018 %  
 Sulphate ..... ≤ 0.024 %  
 Loss on drying at 105°C..... ≤ 1.0 %  
 As ..... ≤ 1 ppm  
 Assay (anh.)..... 97.5 ÷ 102.0 %  
 Assay (optical rotation dried sub.)(JP)≥ 99.5 %

Related substances (HPLC) ..... Conform  
 Maltose and isomaltose ..... ≤ 0.4 %  
 Maltotriose..... ≤ 0.2 %  
 Fructose ..... ≤ 0.15 %  
 Unspecified ..... ≤ 0.10 %  
 Total impurities..... ≤ 0.5 %

Code	Size	Packaging	Notes
346987	1 kg	Plastic bottle	
346989	5 kg	Plastic tank	
346983	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



### D(+)-Glucose monohydrate

- D(+)-Glucosio monoidrato • D(+)-Glucose monohydraté • D(+)-Glucosa monohidrato
- D(+)-Glucose-Monohydrat

Synonym:  
Dextrose monohydrate

CH<sub>2</sub>OHCH(CHOH)<sub>3</sub>CHOH.H<sub>2</sub>O  
CAS: 5996-10-1  
EEC-N: 200-075-1

### D(+)-Glucose monohydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-BP-DAB-JP

**ERBApharm**

Description .....	white crystalline powder	+52.5 ÷ +53.3 °	Chloride.....	≤ 0.018 %	Related substances (HPLC) .....	Conform	
Identifications.....	Positives	Sulphated ash.....	≤ 0.1 %	Sulphate.....	≤ 0.025 %	Maltose and isomaltose.....	≤ 0.4 %
Identification IR (USP) .....	Positive	Water (K.F).....	7.5 ÷ 9.5 %	Loss on drying at 105°C.....	≤ 1.0 %	Maltotriose.....	≤ 0.2 %
Appearance of solution .....	Conform	Acidity.....	Conform	As.....	≤ 1 ppm	Fructose.....	≤ 0.15 %
Soluble starch, sulfite .....	≤ 15 ppm	Conductivity at 20°C .....	≤ 20 µS/cm	Assay (anh.).....	97.5 ÷ 102.0 %	Unspecified.....	≤ 0.10 %
Dextrin.....	Conform	Conductivity at 25°C .....	≤ 20 µS/cm	Assay (optical rotation dried sub.)(JP)≥	99.5 %	Total impurities.....	≤ 0.5 %
Specific optical rotation at 20°C (anh.).....		Heavy metals (Pb).....	≤ 4 ppm			Origin (BSE-TSE) .....	Vegetable

Code	Size	Packaging	Notes
346971	1 kg	Plastic bottle	
346972	5 kg	Plastic tank	
346973	25 kg	Plastic bucket	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*



### L(+)-Glutamic acid

- Acido L(+)-glutammico • Acide L(+)-glutamique • Acido L(+)-glutámico • L-Glutaminsäure

Synonym:  
(S)-2-Aminopentanedioic acid

HOOCCH(NH<sub>2</sub>)CH<sub>2</sub>CH<sub>2</sub>COOH  
Molecular Weight: 147,13  
CAS: 56-86-0  
EEC-N: 200-293-7

### L(+)-Glutamic acid > RPE - For analysis

**RPE**

Description .....	White powder	Ammonium.....	≤ 200 ppm	Residue on ignition.....	≤ 0.1 %	Fe.....	≤ 30 ppm
Identifications.....	Positive	Chloride.....	≤ 200 ppm	Transmittance at 430nm (C=10; HCl 2N)≥	98 %	Assay (non-aqueous medium) .98.5 ÷ 100.5	% (s.s.)
Potere rotat. specif. a 20°C+30.5 ÷ 32.5 ° (s.s.)		Sulphate.....	≤ 300 ppm	Other amino-acids.....	Not detectables		
Loss on drying .....	≤ 0.5 %	Heavy metals (Pb).....	≤ 10 ppm	As2O3.....	≤ 1 ppm		

Code	Size	Packaging	Notes
406485	250 g	Plastic bottle	

### L(+)-Glutamic acid > RE - Pure

**RE**

Description .....	White powder	Specific optical rotation at 20°C (C=10; ....	+31.5 ÷ +32.5 °	Chloride.....	≤ 210 ppm	Sulphated ash.....	≤ 0.1 %
Identifications.....	Positive	Chloride.....	≤ 280 ppm	Sulphate.....	≤ 280 ppm	Fe.....	≤ 30 ppm
Loss on drying .....	≤ 0.2 %	Transmittance at 430nm (C=10; HCl 2N)≥	98 %	Ammonium.....	≤ 200 ppm	Assay (acidimetric) .....	98.5 ÷ 100.5 %s.s.
Other amino-acids.....	Not detectables	Heavy metals (Pb).....	≤ 10 ppm				

Code	Size	Packaging	Notes
304505	250 g	Plastic bottle	
304507	1 kg	Plastic bottle	



## Glutardialdehyde solution 50%

• Aldeide glutarica soluzione 50% • Aldéhyde glutarique solution 50% • Glutaraldehydo solución 50%  
• Glutaraldehydlösung 50%

Synonym:  
Pentane-1,5-dial

$C_5H_8O_2$   
Molecular Weight: 100,12  
CAS: 111-30-8

**Classification transport**  
ONU: 2922  
Transport Hazard class: 8  
Packing group II



**Danger**  
H301-H314-H334-H317-H335-H400-H411  
P280-P284-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P342+P311a-  
P403+P233

### Glutardialdehyde solution 50% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Density at 20° C ..... 1.127 ÷ 1.133    Assay ..... 50.0 ÷ 52.0 %

Code	Size	Packaging	Notes
415721	10 l	Kubidos	



## Glycerol (30°Bé)

• Glicerina (30°Bé) • Glycérine (30°Bé) • Glicerina (30°Bé) • Glycerin (30°Bé)

Synonym:  
1,2,3-Propanetriol

$CH_2OHCHOHCH_2OH$   
Molecular Weight: 92,09  
CAS: 56-81-5  
EEC-N: 200-289-5

### Glycerol (30°Bé) > RS - RSE - For electronic use

**RS**

Description ..... Clear liquid    Ready carbonizable substances..... Conform ACS    Heavy metals (Pb)..... ≤ 2 ppm    Ca..... ≤ 10 ppm  
Colour (APHA) ..... ≤ 10    Density at 25°/25° C..... ≥ 1.2570    Oxalate ..... ≤ 8 ppm    Cr..... ≤ 0.1 ppm  
Identification ..... Positive    Organic chlorine (Cl) ..... ≤ 30 ppm    Peroxides (H2O2) ..... ≤ 5 ppm    Cu..... ≤ 0.1 ppm  
Water miscibility ..... Complete    Chloride..... ≤ 2 ppm    Residue on ignition ..... ≤ 50 ppm    Fe ..... ≤ 0.5 ppm  
Alcohol miscibility ..... Complete    Fatty acid esters(glyceryl trybutyrate) ≤ 500 ppm    Sulphate ..... ≤ 10 ppm    Ni ..... ≤ 0.1 ppm  
Acroleine, sugars and ammonia compounds Conform ACS    As ..... ≤ 0.4 ppm    Assay (densimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
453771	1 l	Glass bottle	
453772	2.5 l	Glass bottle	

### Glycerol (30°Bé) > RPE - For analysis - ACS - Reag. USP

**RPE**

Description ..... Clear liquid    Ready carbonizable substances..... Conform ACS    Heavy metals (Pb)..... ≤ 2 ppm    Esters of fatty acids (butyric acid) ≤ 500 ppm  
Colour (APHA) ..... ≤ 10    Water (K.F.) ..... ≤ 0.5 %    Residue on ignition ..... ≤ 50 ppm    Ca ..... ≤ 10 ppm  
Identification ..... Positive    Organic chlorine (Cl) ..... ≤ 30 ppm    Sulphate ..... ≤ 10 ppm    Fe ..... ≤ 0.5 ppm  
Neutrality ..... Conform ACS    Acroleine and glucose ..... Conform ACS    Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
453751	500 ml	Plastic bottle	
453752	1 l	Glass bottle	
453755	2.5 l	Glass bottle	
453759	35 kg	Metal drum	
453758	260 kg	Metal drum	

### Glycerol (30°Bé) > ERBAPharm - According to pharmacopoeia: Ph.Eur.-USP

**ERBAPharm**

Clear, colourless solution ..... Conform    Water content (K.F.) ..... ≤ 2 % m/m    Chloride (Cl-)..... ≤ 10 mg/kg    Glycerol content ..... 99 - 101 %  
Refractive index at 20°C ..... 1.47 - 1.475    Heavy metals (as Pb) ..... ≤ 5 mg/Kg    Halogenated compounds ..... ≤ 35 mg/Kg    Fatty acids and esters..... Conform  
Colour ..... ≤ 10 Hazen    Residue on ignition ..... ≤ 100 mg/Kg    Sugars..... Conform    Limit of chlorinated compounds: 0.0030 %  
Identification (IR)..... Conform    Acidity / alkalinity ..... Conform    Sulfuric ashes ..... ≤ 0.01 %    Impurity A and related substances. Conform  
Identification B ..... Conform    Aldehydes..... ≤ 10 mg/Kg    Volatile org. Impurities ..... Conform    Diethyleneglycol and ethyleneglycol imp.... Conform  
Density d25/25 ..... ≥ 1.249    Esters..... Conform    Sulphate (SO4-) ..... ≤ 20 mg/Kg    Conform

Code	Size	Packaging	Notes
P6170541	10 l	Plastic tank	
P6170567	200 l	Plastic drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Glycerol (30° Bé) > ERBApharm - Vegetal origin - According to Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBApharm**

Appearance ..... Clear colourless liquid	Esters ..... Conform Ph.Eur.	Chloride ..... ≤ 10 ppm	Imp.A and related substances ..... Conform Ph.Eur
Identification A ..... Conform Ph.Eur.	Fatty acids and esters ..... Conform USP-NF	Limit of chlorinated compounds (as Cl) ≤ 30 ppm	Impurity Ret.time < glycerol ..... ≤ 0.1 %
Identification B ..... Conform Ph.Eur.	Colour .... Not darker than standard USP-NF	Halogenated compounds ..... ≤ 35 ppm	Total imp.Ret.time > glycerol ..... ≤ 0.5 %
Identification C. Same Rt to standard by GC USP-NF	Density at 25°C ..... ≥ 1.249	Heavy metals (Pb) ..... ≤ 5 ppm	Related compounds ..... Conform USP-NF
Appearance of solution S... Clear,colourless Ph.Eur.	Refractive index at 20°C ..... 1.470 ÷ 1.475	Sulphate ..... ≤ 20 ppm	Any impurity ..... ≤ 0.1 %
Acidity or alkalinity ..... Conform Ph.Eur.	Water (K.F) ..... ≤ 2.0 %	Ethylene glycol ..... ≤ 0.1 %	Total impurities ..... ≤ 1.0 %
Sugars ..... Conform Ph.Eur.	Aldehydes ..... ≤ 10 ppm	Diethylene glycol ..... ≤ 0.1 %	Assay (acidimetric) ..... 99.0 ÷ 101.0 % s.s.
	Sulfated ashes ..... ≤ 0.01 %		

Code	Size	Packaging	Notes
346161	1 l	Glass bottle	
346165	2.5 l	Glass bottle	
346162	5 l	Plastic tank	
346164	35 kg	Metal drum	
346167	250 kg	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Glycerol (30° Bé) > RE - Pure

**RE**

Description ..... Clear colourless liquid	Refractive index at 20°C. 1.4710 ÷ 1.4740	Residue on ignition ..... ≤ 100 ppm	Fe ..... ≤ 1 ppm
Identification ..... Positive	Chloride ..... ≤ 10 ppm	Sulphate ..... ≤ 20 ppm	
Density at 20° C ..... 1.258 ÷ 1.264	Heavy metals (Pb) ..... ≤ 5 ppm	As ..... ≤ 0.5 ppm	

Code	Size	Packaging	Notes
346102	1 l	Glass bottle	
346106	35 kg	Metal drum	



## Glycerol 90% (28° Bé)

• Glicerina 90% (28° Bé) • Glycérine 90% (28° Bé) • Glicerina 90% (28° Bé) • Glycerin 90% (28° Bé)

Synonym:  
1,2,3-Propanetriol

CH<sub>2</sub>OHCHOHCH<sub>2</sub>OH  
Molecular Weight: 92,09  
CAS: 56-81-5  
EEC-N: 200-289-5

## Glycerol 90% (28° Bé) > RE - Pure

**RE**

Description ..... Clear colourless liquid	Heavy metals (Pb) ..... ≤ 5 ppm	Refractive index at 20°C. 1.4490 ÷ 1.4550	Chloride ..... ≤ 10 ppm
Identification ..... Positive	Residue on ignition ..... ≤ 100 ppm	Aldehydes ..... ≤ 10 ppm	Water (K.F) ..... 11.5 ÷ 16.5 %
Density at 20° C ..... 1.220 ÷ 1.233	Appearance of solution ..... Conform	Esters ..... Conform	Assay ..... 83.5 ÷ 88.5 %
Chlorinated compounds ..... ≤ 30 ppm	Acidity or alkalinity ..... Conform	Sugar ..... Conform	

Code	Size	Packaging	Notes
346131	1 l	Glass bottle	
346132	2.5 l	Glass bottle	
346134	35 kg	Plastic drum	



## Glycine

• Glicocolla • Glycocolle • Glicina • Glycin

Synonym:  
• Aminoacetic acid  
• Glycocol

CH<sub>2</sub>NH<sub>2</sub>COOH  
Molecular Weight: 75,07  
CAS: 56-40-6  
EEC-N: 200-272-2

## Glycine > RPE - For analysis

**RPE**

Description ..... White crystalline powder	Loss on drying ..... ≤ 0.2 %	Heavy metals (Pb) ..... ≤ 20 ppm
Identification (I.R.) ..... Positive	Chloride ..... ≤ 70 ppm	Sulphated ash ..... ≤ 0.1 %
Hydrolyzable matter ..... Conform	Sulphate ..... ≤ 65 ppm	Assay (non-aqueous medium) ..... ≥ 98.5 % (s.s.)

Code	Size	Packaging	Notes
453804	100 g	Glass bottle	
453807	1 kg	Plastic bottle	

## Glycine > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-Ph.Franc.

**ERBApharm**

Description .....	White crystalline powder	Loss on drying .....	≤0.2 %	Assay (non-aqueous medium) .98.5 ÷ 101.0	Ninhydrin positive substances .....	Conform Ph.Eur.
Identification .....	Positive	Sulphated ash .....	≤0.1 %	% s.s.		
Appearance of solution .....	Conform Ph.Eur.	Chloride .....	≤70 ppm	Sostanze ninidrina-positive Conform Ph.Eur.		
Hydrolyzable matter .....	Conform USP-NF	Heavy metals (Pb) .....	≤10 ppm	Related substances (HPLC) Conform Ph.Eur.		
pH solution 5% .....	5.9 ÷ 6.4	Sulphate .....	≤65 ppm	Ammonium (NH4) .....	≤ 0.02 %	

Code	Size	Packaging	Notes
346207	1 kg	Plastic bottle	
346205	5 kg	Plastic tank	
346208	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Glycocoll ▶ Glycine



### Glycolic acid

• Acido glicolico • Acide glycolique • Acido glicólico • Glycolsäure

Synonym:

*Hydroxyacetic acid*

CH<sub>2</sub>OHCOOH  
Molecular Weight: 76,052  
CAS: 79-14-1  
EEC-N: 201-180-5

#### Classification transport

ONU: 3261  
Transport Hazard class: 8  
Packing group II



#### Danger

H302-H332-H314  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

## Glycolic acid > RPE - For analysis

**RPE**

Description .....	White crystals	Melting point .....	72 ÷ 80 °C	Water .....	≤ 1 %
Identification .....	Positive	Assay (acidimetric) .....	≥ 98.5 % s.s.		

Code	Size	Packaging	Notes
406434	100 g	Glass bottle	



### Glyoxal standard solution

• Glicosale standard soluzione • Glyoxal standard solution • Glioxal, solución patrón • Glyoxal-Standardlösung

#### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group II



#### Danger

H225-HEU208  
P210-P241-P280-P303+P361+P353-P403+P235-P501a

## Glyoxal standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

**RS**

Code	Size	Packaging	Notes
615003700	100 ml	Plastic bottle	A 20 ppm solution: to dilute according to Ph.Eur 5003700



### Glyoxal-bis-(2-hydroxyanil)

• Glicosale-bis(2-idrossianile) • Glyoxal-bis-(2-hydroxyanile) • Glioxal-bis-(2-idroxianilo) • Glyoxalbis(2-hydroxyanil)

Synonym:

• 2,2'-(Ethanediylidenedinitrilo)diphenol  
• GBHA

C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 240,26  
CAS: 1149-16-2  
EEC-N: 214-560-0



#### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233

## Glyoxal-bis-(2-hydroxyanil) > RPE - For analysis

**RPE**

Description .....	Beige powder	Loss on drying .....	≤ 0.5 %	Assay (HPLC) .....	≥ 96.0 %
Identification .....	Positive	Sulphated ash .....	≤ 0.1 %		

Code	Size	Packaging	Notes
454131	10 g	Glass bottle	
454132	25 g	Glass bottle	

**Indicator for the complexometric titration of calcium**

**Gold standard solution**

• Oro standard soluzione • Or solution standard • Oro, solución patrón • Goldstandardlösung

**Danger**H314-HEU208  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Gold standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505317	100 ml	Plastic bottle	conc. 10 ppm Matrix: Hydrochloric acid
505318	100 ml	Plastic bottle	conc. 100 ppm Matrix: Hydrochloric acid
505319	100 ml	Plastic bottle	conc. 1000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Gold standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503431	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503433	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503435	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
503437	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Gold standard solution > RS - Standard solution for AAS**

RS

Description ..... Yellow clear liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497585	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497581	500 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Gold standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Yellow clear liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
466961		Plastic ampoule	conc. 1.000 ppm Matrix: Hydrochloric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package****Gold(III) chloride trihydrate**• Oro (III) cloruro triidrato • Or (III) chlorure acide trihydraté • Oro tricloruro acido  
• Goldenes (III) säurechloridtrihydrat**Synonym:**• Tetrachloroauric(III) acid  
• Hydrogen tetrachloroaurate(III)HAuCl<sub>4</sub>·3H<sub>2</sub>O  
Molecular Weight: 393,83  
CAS: 16961-25-4  
EEC-N: 240-948-4**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group II**Danger**H314-H317  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P362+P364**Gold(III) chloride trihydrate > RPE - For analysis - ACS**

RPE

Description ..... Orange crystalline powder Insol.in Diethyl ether ..... ≤ 0.1 % Titolo (Au) ..... ≥ 49.0 %  
Identification ..... Positive Metalli (SO4) ..... ≤ 0.2 %

Code	Size	Packaging	Notes
467007	1 g	Glass ampoule	





## Gram-Hucker Kit

• Kit Gram-Hucker • Kit Gram-Hucker • Kit Gram-Hucker • Gram-Hucker Kit

### Classification transport

ONU: 1987  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H272-H290-H300-H310-H330-H314-H351-H361d-H371-H373-H304-H410-HEU071-HEU210-P210-P280-P284-P301+P310a-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P320-P361+P364-P403+P233

### Gram - Hucker Kit > RS - For bacteriology

RS

Description ..... Identification ..... Positive

Code	Size	Packaging	Notes
454441	4 x 250 ml	Carton box	In Vitro Diagnostic Medical Device

**Dye. Contains ethanol. 4 bottles of 250 ml. 1x 477241 Safranin T, 1x 458751 Lugol, 1x 444131 Differentiator 1x 491561 Violet oxalate**



## Griess' reagent

• Griess reattivo soluzione in acido acetico • Réactif de Griess • Griess reattivo soluzione en acido acético • Griess Reagenz

### Classification transport

ONU: 3265  
Transport Hazard class: 8  
Packing group II



### Danger

H314-HEU208  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Griess' reagent > RS - For nitrite detection

RS

Description ..... Clear pinkish liquid Identification ..... Positive

Code	Size	Packaging	Notes
454481	1 l	Glass bottle	



## Griess' reagent A

• Griess reagente A • Réactif A de Griess • Griess reattivo A • Griess Reagenz A

### Synonym:

- 4-Aminobenzenesulfonic acid
- Aniline-4-sulfonic acid

Molecular Weight: 173,19

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Danger

H314-HEU208  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Griess' reagent A > RS - For nitrite detection

RS

Description ..... Clear pinkish liquid Identification ..... Positive Nitrite sensitivity ..... ≥ 1 mcg/ml

Code	Size	Packaging	Notes
454452	500 ml	Glass bottle	



## Griess' reagent B

• Griess reagente B • Réactif B de Griess • Griess reattivo B • Griess Reagenz B

### Classification transport

ONU: 3265  
Transport Hazard class: 8  
Packing group II



### Danger

H314  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Griess' reagent B > RS - For nitrite detection

RS

Description ..... Clear pinkish liquid Identification ..... Positive Nitrite sensitivity ..... ≥ 1 mcg/ml

Code	Size	Packaging	Notes
454462	500 ml	Glass bottle	



## Gum arabic

• Gomma arabica • Gomme arabique • Goma arábica • Gummi arabisch

Synonym:  
Acacia gum

CAS: 9000-01-5  
EEC-N: 232-519-5



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Gum arabic > ERBApharm - According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

**ERBApharm**

Description .....	White-yellowish granules	Starch and Dextrins .....	Conform Ph.Eur.	Total ash.....	≤ 4.0 %	Escherichia coli .....	Absent Ph.Eur.
Identification .....	Positive	Saccharose and fructose .....	Conform Ph.Eur.	Microbial tests		Salmonella.....	Absent Ph.Eur.
Agar and tragacanth.....	Conform Ph.Eur.	Tannin .....	Conform Ph.Eur.	TAMC.....	≤ 10000 CFU/g		
Agar and sterculia .....	Conform Ph.Eur.	Loss on drying .....	≤ 10.0 %	TYMC .....	≤ 100 CFU/g		

Code	Size	Packaging	Notes
347107	1 kg	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
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v  
w  
x  
y  
z



## Haemalum solution according to Carazzi

- Emallume reattivo soluzione secondo Carazzi • Hemalun en solution selon Carazzi • Emalume reactivo solución según Carazzi
- Hemalun in Lösung nach Carazzi

HEU210

### Haemalum solution according to Carazzi > RS - For histology

RS

Description ..... Liquido rosso-bruno Identification ..... Positive Density at 20°C ..... 1.086 ÷ 1.090 pH of the substance ..... 2.1 ÷ 2.3

Code	Size	Packaging	Notes
434351	250 ml	Glass bottle	In Vitro Diagnostic Medical Device



## Haemalum solution according to Mayer

- Emallume reattivo secondo Mayer • Hemalun en solution selon Mayer • Emalume reactivo solución según Mayer • Hemalun in Lösung nach Mayer



### Warning

H302-H371

P260-P264-P270-P301+P312a-P330-P501a

### Haemalum solution according to Mayer > RS - For histology

RS

Description ..... Clear purple liquid Identification ..... Positive Assorbanza a 560 nm ..... ≥ 0.80

Code	Size	Packaging	Notes
446372	1 l	Plastic bottle	In Vitro Diagnostic Medical Device
446377	1 l	Plastic bottle	In Vitro Diagnostic Medical Device



## Hafnium standard solution

- Afnio standard soluzione • Hafnium solution standard • Hafnio, solución patrón • Hafnium-Standardlösung

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group III



### Hafnium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505642	100 ml	Plastic bottle	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid
505645	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Hafnium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504221	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504223	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504225	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
504227	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Hafnium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507741	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507506	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Hanus's reagent**

• Hanus reattivo • Réactif de Hanus • Hanus reactivo • Hanus-Reagenz

**Classification transport**ONU: 2920  
Transport Hazard class: 8  
Packing group II**Danger**H226-H314-H373  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Hanus's reagent > RS - For detection of iodine index****RS**Description ..... Brown red liquid Identification ..... Positive Iodine value .....  $\geq 90$ 

Code	Size	Packaging	Notes
E454872	1 l	Glass bottle	

**Hartshorn salt ▶ Ammonium carbonate****Heavy water ▶ Deuterium oxide-d2****Hematoxylin**

• Ematossilina • Hématoxyline • Hematoxilina • Hämatoxylin

Synonym:  
*Natural Black 1* $C_{16}H_{14}O_6$   
Molecular Weight: 302,29  
CAS: 517-28-2  
EEC-N: 208-237-3**Warning**H302-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233**Hematoxylin > RS - For microscopy - C.I. 75290****RS**Description ..... Brown powder Loss on drying ..... 4 - 8 % Alcohol solubility ..... Conform  
Identification ..... Positive Assay .....  $\geq 75$  % Melting point .....  $\sim 140$  °C

Code	Size	Packaging	Notes
446472	25 g	Glass bottle	
446473	100 g	Glass bottle	
446475	1 kg	Plastic bottle	

**Dye for cytology****Hematoxylin solution according to Mayer**• Ematossilina soluzione secondo Mayer • Hématoxyline en solution selon Mayer  
• Hematoxilina solución según Mayer • Hämatoxylinlösung nach MayerSynonym:  
*Natural Black 1* $C_{16}H_{14}O_6$   
Molecular Weight: 302,29  
CAS: 517-28-2

HEU210

**Hematoxylin solution according to Mayer > RS - For histology****RS**

Description ..... Red-violet liquid Identification ..... Positive

Code	Size	Packaging	Notes
460511	100 ml	Bottle	In Vitro Diagnostic Medical Device
460512	6 x 100 ml	Bottle	In Vitro Diagnostic Medical Device
460513	1 l	Bottle	In Vitro Diagnostic Medical Device
460515	6 x 1 l	Bottle	In Vitro Diagnostic Medical Device



## Heptafluorobutyric acid

• Acido eptafluorobutirrico • Acide heptafluorobutyrique • Acido heptafluorobutirico • Perfluorbuttersäure

CF<sub>3</sub>(CF<sub>2</sub>)<sub>2</sub>COOH  
Molecular Weight: 214,04  
CAS: 375-22-4  
EEC-N: 206-786-3

**Classification transport**  
ONU: 3265  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Heptafluorobutyric acid > RPE - For analysis

RPE

Description ..... Colourless liquid      Density at 20° C ..... 1.64 ÷ 1.65      Assay (GC) ..... ≥ 98 %  
Identification ..... Positive      Boiling point ..... 120 ÷ 121 ° C

Code	Size	Packaging	Notes
405451	10 ml	Glass bottle	

#### For derivatization



## n-Heptane 99%

• n-Eptano 99% • n-Heptane 99% • n-Heptano 99% • n-Heptan 99%

CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>  
Molecular Weight: 100,21  
CAS: 142-82-5  
EEC-N: 205-563-8

**Classification transport**  
ONU: 1206  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H315-H336-H304-H410  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### n-Heptane 99% > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid      Water (K.F.) ..... ≤100 ppm      at 200 nm ..... ≥20 %      At 250 nm ..... ≥ 98 %  
Identification ..... Positive      Residue on evaporation ..... ≤5 ppm      at 210 nm ..... ≥55 %      at 260 nm ..... ≥98 %  
Density at 20° C ..... 0.681 ÷ 0.687      Acidity or alkalinity ..... ≤0.00015 meq/g      at 220 nm ..... ≥80 %      Aromatic compounds ..... ≤ 5 ppm  
Refractive index at 20°C. 1.3836 ÷ 1.3916      Assay (GLC) ..... ≥99.2 %      at 230 nm ..... ≥92 %  
Boiling point ..... 97.9 ÷ 98.9 ° C      U.V. Transmittance ..... at 240 nm ..... ≥96 %

Code	Size	Packaging	Notes
412591000	1 l	Glass bottle	
412592000	2.5 l	Glass bottle	

### n-Heptane 99% > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear liquid      Water ..... ≤ 0.005 %      GC-ECD (Lindano) ..... ≤ 3 ng/l      Ret. range 1,2,4-trichlorobenzene  
Identification ..... Positive      Free acids (HCOOH) ..... ≤ 10 ppm      Assay (GLC) ..... ≥ 99 %      to decachlorobiphenyle  
Colour ..... ≤ 10 APHA      Non volatile residue ..... ≤ 5 mg/Kg      Total sulphur (S) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
446951	1 l	Glass bottle	
446952	2.5 l	Glass bottle	

### n-Heptane 99% > RS - SPECTROSOL - For optical spectroscopy

RS

Description ..... Clear liquid      Refractive index at 20°C. 1.3836 ÷ 1.3916      Alkalinity ..... ≤0.0002 meq/g      at 210 nm ..... ≥50 %  
Colour (APHA) ..... ≤10      Boiling point ..... 97.9 ÷ 98.9 ° C      Aromatic compounds ..... ≤5 ppm      at 220 nm ..... ≥80 %  
Identification ..... Positive      Water (K.F.) ..... ≤100 ppm      Assay (GLC) ..... ≥99 %      at 230 nm ..... ≥92 %  
Colour ..... ≤ 10 Hazen      Residue on evaporation ..... ≤5 ppm      U.V. Transmittance ..... at 250 nm ..... ≥98 %  
Density at 20° C ..... 0.681 ÷ 0.687      Acidity ..... ≤0.0005 meq/g      at 200 nm ..... ≥20 %

Code	Size	Packaging	Notes
446824	1 l	Glass bottle	
P0502721	2.5 l	Glass bottle	

**n-Heptane 99% > RS - Anhydrous - For analysis****RS**

Refractive index at 20°C..... 1.386 - 1.390	Colour ..... ≤ 10 Hazen	Free acid (as CH <sub>3</sub> COOH)..... ≤ 10 mg/Kg	Density d <sub>20</sub> /4 ..... 0.681 - 0.687
Water content (K.F.)..... ≤ 50 mg/Kg	Assay (GC)..... ≥ 99 %	Identification (IR)..... Conform	Total sulphur (S) ..... ≤ 5 ppm
Non volatile residue..... ≤ 10 mg/Kg	Aromatic compounds..... ≤ 50 mg/Kg	Clear, colourless liq. appearance..... Conform	

Code	Size	Packaging	Notes
P0501016	1 l	Glass bottle	
P0501021	2.5 l	Glass bottle	

**n-Heptane 99% > RPE - For analysis****RPE**

Description ..... Clear liquid	Ready carbonizable substances..... Conform	Residue on evaporation ..... ≤ 10 ppm	Aromatic compounds..... ≤ 50 ppm
Colour (APHA) ..... ≤ 10	Density at 20° C ..... 0.681 ÷ 0.687	Subst. reducing KMnO <sub>4</sub> ..... ≤ 20 ppm(5m)	Acidity (acetic acid)..... ≤ 10 ppm
Identification ..... Conform	Refractive index at 20°C. 1.3836 ÷ 1.3916	Tiophene ..... ≤ 10 ppm	
Chloroform miscibility ..... Complete	Boiling point..... 97.4 ÷ 99.4 ° C	Total sulphur ..... ≤ 5 ppm	
Diethyl ether miscib..... Complete	Water (K.F.)..... ≤ 100 ppm	Assay (GLC) ..... ≥ 99.0 %	

Code	Size	Packaging	Notes
446787	1 l	Glass bottle	
446785	2.5 l	Glass bottle	
446781	5 l	Aluminium can	
446783	5 l	Plastic tank	
446782	18 kg	Metal drum	
446789	135 kg	Metal drum	
446788	200 l	Metal drum	

**n-Heptane 99% > RE - Pure****RE**

Description ..... Clear colourless liquid	Density at 20° C ..... 0.679 ÷ 0.689	Water (K.F.)..... ≤ 150 ppm	Total sulphur ..... ≤ 5 ppm
Identification ..... Positive	Refractive index at 20°C. 1.3826 ÷ 1.3926	Residue on evaporation ..... ≤ 20 ppm	Assay (GC)..... ≥ 99 %
Colour ..... ≤ 10 APHA	Boiling point..... 97.4 ÷ 99.4 ° C	Acidità (ac. acetico)..... ≤ 10 ppm	Aromatic compounds..... ≤ 50 ppm

Code	Size	Packaging	Notes
339381	1 l	Glass bottle	
339385	2.5 l	Glass bottle	
339382	5 l	Aluminium can	
528224	5 l	Plastic tank	
528228	10 l	Metal tank	
339386	18 kg	Metal drum	
528225	25 l	Metal drum	
528226	200 l	Metal drum	

**n-Heptane 99% > RE - ASTM****RE**

Description ..... Clear colourless liquid	Refractive index at 20°C. 1.3826 ÷ 1.3926	Residue on evaporation ..... ≤ 20 ppm	n-heptane (ASTM) ..... ≥ 99.75 % v/v
Identification ..... Positive	Boiling point..... 97.4 ÷ 99.4 ° C	Lead..... ≤ 0.002 g/gal	Assay (GC)..... ≥ 99.5 %
Density at 20° C ..... 0.679 ÷ 0.689	Water (K.F.)..... ≤ 150 ppm	Isooctane (ASTM) ..... ≤ 0.10 % v/v	

Code	Size	Packaging	Notes
524263	5 l	Plastic tank	
524265	25 l	Metal drum	
524267	200 l	Metal drum	

**Suitable for ASTM methods D2700 and D2699**





## n-Heptane

• n-Eptano • n-Heptane • n-Heptano • n-Heptan

CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>  
Molecular Weight: 100,21  
CAS: 142-82-5  
EEC-N: 205-563-8

**Classification transport**  
ONU: 1206  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H410  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### n-Heptane > RS - For HPLC - Isocratic Grade

RS

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 100 ppm	U.V. Transmittance	At 250 nm .....	≥ 98 %	
Identification .....	Positive	Residue on evaporation .....	≤ 5 ppm	at 200 nm .....	≥ 20 %	Aromatic compounds.....	≤ 10 ppm
Density at 20° C .....	0.681 - 0.687	Acidity or alkalinity.....	≤ 0.00015 meq/g	at 210 nm .....	≥ 45 %		
Refractive index at 20°C.....	1.386 - 1.390	Assay (GLC) .....	≥ 95 %	at 220 nm .....	≥ 80 %		

Code	Size	Packaging	Notes
446831	1 l	Glass bottle	
446832	2.5 l	Glass bottle	

### n-Heptane > RE - Pure

RE

Description .....	Clear colourless liquid	Identification .....	Positive	Water (K.F.) .....	≤ 100 ppm	Benzene .....	≤ 10 ppm
Colour .....	≤ 10 APHA	Residue on evaporation .....	≤ 10 ppm	Assay (GLC) .....	≥ 95.0 %	Aromatics .....	≤ 100 ppm

Code	Size	Packaging	Notes
508212	1 l	Glass bottle	
508215	5 l	Plastic tank	
508216	25 l	Metal drum	
508217	200 l	Metal drum	



## Heptane mixture of isomers

• Eptano miscela di isomeri • Heptane mélange d'isomères • Heptano mezcla de isómero • Heptan Isomerengemisch

CH<sub>2</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>  
Molecular Weight: 100,21  
CAS: 142-82-5  
EEC-N: 927-510-4

**Classification transport**  
ONU: 1206  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H411  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### Heptane mixture of isomers > RS - PESTIPUR - For pesticide analysis

RS

Appearance .....	Clear colourless liquid	Density at 15°C .....	690 - 725 g/l	Aromatic compounds.....	≤ 100 mg/Kg	Retention time trichlorobenzene to mirex	
Refractive index at 20°C.....	1.387 - 1.407	Colour .....	≤ 10 Hazen	Non volatile residue .....	≤ 5 mg/Kg	Ret. range 1,2,4-trichlorobenzene	
Water content (K.F.) .....	≤ 50 mg/Kg	Distillation range .....	85 - 105 °C	GC-ECD. Individual peak (Lindane) ..	≤ 3 ng/l	to decachlorobiphenyle	

Code	Size	Packaging	Notes
446841	1 l	Glass bottle	
446842	2.5 l	Glass bottle	

#### For chlorinated compounds analysis

### Heptane mixture of isomers > RPE - For analysis

RPE

Appearance .....	Clear colourless liquid	Refractive index at 20°C.....	1.387 - 1.407	End/initial boiling points difference	≤ 10 °C	Aromatic compounds.....	≤ 100 mg/Kg
Identification .....	Conform	Density at 15°C .....	690 - 725 g/l	Water content (K.F.) .....	≤ 100 mg/Kg	n-hexane .....	None %
Colour .....	≤ 10 Apha	Distillation range .....	85 - 105 °C	Non volatile residue .....	≤ 10 mg/Kg	Toluene.....	None mg/Kg

Code	Size	Packaging	Notes
524381	5 l	Plastic tank	

**Heptane mixture of isomers > RE - Pure****RE**

Description .....	Clear liquid	Refractive index at 20°C .....	1,3870 ÷ 1,4070	Water (K.F.) .....	≤ 150 ppm
Identification .....	Positive	Density at 15°C .....	0.690 ÷ 0.725	Residue on evaporation .....	≤ 100 ppm
Colour .....	≤ 10 APHA	Boiling point .....	85 ÷ 105 °C	Aromatics (Thiophene) .....	≤ 200 ppm

Code	Size	Packaging	Notes
528245	5 l	Plastic tank	
528246	25 l	Metal drum	
528247	200 l	Metal drum	

**1-Heptanesulphonic acid sodium salt**

- Acido 1-eptansolfonico sale sodico • Acide 1-heptanesulfonique sel sodique
- Acido 1-heptanosulfónico sal sódica • 1-Heptansulfonsäure-Natriumsalz

Synonym:  
*Sodium 1-heptanesulfonate*

$C_7H_{15}O_3SNa$   
Molecular Weight: 202,25  
CAS: 22767-50-6  
EEC-N: 245-210-5

**1-Heptanesulphonic acid sodium salt > RS - For ion pair chromatography****RS**

Description .....	White crystalline powder	Assay .....	≥ 99 %	at 210 nm .....	≤ 0.05 AU	at 240 nm .....	≤ 0.01 AU
Identification .....	Positive	Assorbanza (Sol. 0.25M)		at 220 nm .....	≤ 0.04 AU	at 250 nm .....	≤ 0.01 AU
Loss on drying .....	≤ 2 %	at 200 nm .....	≤ 0.1 AU	at 230 nm .....	≤ 0.03 AU	at 260 nm .....	≤ 0.01 AU

Code	Size	Packaging	Notes
405851	25 g	Glass bottle	
405852	100 g	Plastic bottle	

**Hexachloroplatinic acid hexahydrate**

- Acido esacloroplatinico esaidrato • Acide hexachloroplatinique hexahydraté
- Acido hexacloroplatinico hexahidrato • Hexachloroplatinsäure-Hexahydrat

Synonym:  
*Chloroplatinic acid hexahydrate*

$H_2PtCl_6 \cdot 6H_2O$   
Molecular Weight: 517,92  
CAS: 18497-13-7  
EEC-N: 241-010-7

**Danger**

H315-H319-H334-H317  
P261-P284-P304+P340-P305+P351+P338-  
P337+P313-P342+P311a

**Hexachloroplatinic acid hexahydrate > RPE - For analysis****RPE**

Description .....	Red-orange mass	Identification .....	Positive	Tracce tot. di metalli .....	≤ 0.1 %	Assay .....	38 ÷ 40 % Pt
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Code	Size	Packaging	Notes
470017	1 g	Glass bottle	

**Hexadecane**

- Esadecano • Hexadécane • Hexadecano • Hexadecan

Synonym:  
*Cetane*

$C_{16}H_{34}$   
Molecular Weight: 226,44  
CAS: 544-76-3  
EEC-N: 208-878-9

**Danger**

H304  
P301+P310a-P331-P405-P501a

**Hexadecane > RE - Pure****RE**

Appearance .....	Clear colourless liquid	Identification .....	Conform	Assay (GC) .....	≥ 99 %
Colour .....	≤ 10 Hazen	Refractive index at 20°C .....	1.433 - 1.437		

Code	Size	Packaging	Notes
P0853016	1 l	Glass bottle	

1-Hexadecanol ▶ Cetyl alcohol

Hexadecyltrimethylammonium bromide ▶ Trimethylcetylammmonium bromide

 **Hexafluoro-2-propanol**  
 • Esafluoro-2-propanolo • Hexafluoro-2-Propanol • Hexafluoro-2-Propanol • Hexafluor-2-propanol

Synonym:  
 • Hexafluoroisopropanol  
 • HFP

$C_3H_2F_6O$   
 Molecular Weight: 168,04  
 CAS: 920-66-1  
 EEC-N: 213-059-4

**Classification transport**  
 ONU: 3265  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H302-H312-H332-H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338-P362+P364

### Hexafluoro-2-propanol > RPE - For analysis

**RPE**

Identification (IR)..... Conform    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P6080503	100 ml	Glass bottle	
P6080518	500 ml	Glass bottle	

## Hexahydrotoluene ► Methylcyclohexane

 **Hexamethyldisilazane**  
 • Esametildisilazano • Hexaméthylidisilazane • Hexametildisilazano • Hexamethyldisilazan

Synonym:  
 HMDS

$(CH_3)_3SiNHSi(CH_3)_3$   
 Molecular Weight: 161,4  
 CAS: 999-97-3  
 EEC-N: 213-668-5

**Classification transport**  
 ONU: 3286  
 Transport Hazard class: LQ



**Danger**  
 H225-H302-H311-H315-H319-H335  
 P210-P280-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P233

### Hexamethyldisilazane > RPE - For analysis

**RPE**

Description ..... Clear liquid    Identification ..... Positive    Assay (GLC) ..... ≥ 97.5 %  
 Colour ..... ≤ 10 APHA    Refractive index at 20°C ..... 1.4060 ÷ 1.4090

Code	Size	Packaging	Notes
446731	25 ml	Glass bottle	

#### For derivatization

 **Hexamethylenetetramine**  
 • Esametilentetrammina • Hexaméthylènetétramine • Hexametilentetramina • Hexamethylentetramin

Synonym:  
 • 1,3,5,7-Tetraazatricyclo[3.3.1.1.3,7]decane  
 • Hexamine

$(CH_2)_6N_4$   
 Molecular Weight: 140,19  
 CAS: 100-97-0  
 EEC-N: 202-905-8

**Classification transport**  
 ONU: 1328  
 Transport Hazard class: 4.1  
 Packing group III



**Warning**  
 H228-H317  
 P210-P241-P261-P280-P333+P313-P501a

### Hexamethylenetetramine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... colourless/white crystalline powder    Identification ..... Positive    Ash ..... ≤ 0.02 %    Loss on drying 130°C ..... ≤ 2 %  
 Water (K.F) ..... ≤ 0.5 %    Assay (alkalimetric) ..... ≥ 99.0 %    Heavy metals (Pb) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
446875	250 g	Plastic bottle	
446876	1 kg	Plastic bottle	



## n-Hexane 99%

• n-Esano 99% • n-Hexane 99% • n-Hexano 99% • n-Hexan 99%

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>  
Molecular Weight: 86,18  
CAS: 110-54-3  
EEC-N: 203-777-6

**Classification transport**  
ONU: 1208  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H361f-H336-H373-H304-H411  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### n-Hexane 99% > RS - For HPLC - Isocratic Grade

RS

Clear, colourless liq. appearance ..... Conform  
Identification ..... Conform  
Colour ..... ≤ 10 Apha  
Refractive index at 20°C ..... 1.373 - 1.377  
Water content (K.F.) ..... ≤ 150 mg/Kg  
Aromatic compounds ..... ≤ 5 mg/Kg  
UV transmittance at 210 nm ..... ≥ 50 %  
UV transmittance at 220 nm ..... ≥ 80 %  
UV transmittance at 230 nm ..... ≥ 90 %  
UV transmittance at 245 nm ..... ≥ 98 %  
Non volatile residue ..... ≤ 5 mg/Kg  
Assay (GC) ..... ≥ 99 %  
Total sulphur (S) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
412691	1 l	Glass bottle	
412692	2.5 l	Glass bottle	

### n-Hexane 99% > RS - For GC-MS

RS

Appearance ..... Clear colourless liquid  
Refractive index at 20°C ..... 1.373 - 1.377  
Water (K.F.) ..... ≤ 50 ppm  
Residue on evaporation ..... ≤ 2 ppm  
Colour ..... ≤ 10 APHA  
Assay (GC) ..... ≥ 99.0 %  
GC-MS Individual peak (n-hexadecane) ..... ≤ 2 µg/L  
Ret. range n-undecane to n-tetracontane (scanning area 30-600amu)

Code	Size	Packaging	Notes
447212	1 l	Glass bottle	

### n-Hexane 99% > RS - ATRASOL - For traces analysis

RS

Appearance ..... Clear colourless liquid  
Refractive index at 20°C ..... 1.373 - 1.377  
Water content (K.F.) ..... ≤ 50 mg/Kg  
Colour ..... ≤ 5 Hazen  
Assay (GC) ..... ≥ 99 %  
Non volatile residue ..... ≤ 2 mg/Kg  
GC ( FID ) - NC Atrasol ..... Conform  
GC-ECD Individual peak (CCl<sub>4</sub>) ..... ≤ 1 µg/l  
Ret. range dichloromethane to 1,2,4-trichlorobenzene  
GC-ECD Individual peak (Lindane) ..... ≤ 2 ng/L  
Ret. range 1,2,4-trichlorobenzene  
to decachlorobiphenyle  
GC-FID Individual peak (n-hexadecane) ..... ≤ 2 µg/L  
Ret. range n-undecane to n-tetracontane

Code	Size	Packaging	Notes
P052323016	1 l	Glass bottle	
P052323021	2.5 l	Glass bottle	

### n-Hexane 99% > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear liquid  
Identification ..... Positive  
Colour ..... ≤ 10 hazen  
Assay (GLC) ..... ≥ 99 %  
Not volatile residue ..... ≤ 2 mg/kg  
Water ..... ≤ 100 mg/kg  
GC-ECD (Lindane standard) ..... ≤ 3 ng/l  
GC-NPD (Ethylparathion standard) ..... ≤ 3 ng/l

Code	Size	Packaging	Notes
447111	1 l	Glass bottle	
447112000	2.5 l	Glass bottle	

### n-Hexane 99% > RS - SPECTROSOL - For optical spectroscopy

RS

Clear, colourless liq. appearance ..... Conform  
Identification ..... Conform  
Colour ..... ≤ 10 Apha  
Refractive index at 20°C ..... 1.373 - 1.377  
Water content (K.F.) ..... ≤ 150 mg/Kg  
Total sulphur (S) ..... ≤ 5 ppm  
Aromatic compounds ..... ≤ 5 mg/Kg  
Non volatile residue ..... ≤ 5 mg/Kg  
Assay (GC) ..... ≥ 99 %  
UV transmittance at 210 nm ..... ≥ 60 %  
UV transmittance at 215 nm ..... ≥ 70 %  
UV transmittance at 220 nm ..... ≥ 80 %  
UV transmittance at 230 nm ..... ≥ 94 %  
UV transmittance at 245 nm ..... ≥ 98 %

Code	Size	Packaging	Notes
447051	1 l	Glass bottle	
447052	2.5 l	Glass bottle	

### n-Hexane 99% > RS - Anhydrous - For HPLC

RS

Refractive index at 20°C ..... 1.373 - 1.377  
Water content (K.F.) ..... ≤ 50 mg/Kg  
Colour ..... ≤ 10 Hazen  
Aromatic compounds ..... ≤ 5 mg/Kg  
UV transmittance at 210 nm ..... ≥ 50 %  
UV transmittance at 220 nm ..... ≥ 80 %  
UV transmittance at 230 nm ..... ≥ 90 %  
UV transmittance at 245 nm ..... ≥ 98 %  
Non volatile residue ..... ≤ 5 mg/Kg  
Assay (GC) ..... ≥ 99 %  
Total sulphur (S) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
P05230S01/16	1 l	Glass bottle	
P05230S01/21	2.5 l	Glass bottle	

## n-Hexane 99% > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Non volatile residue .....	≤ 10 mg/Kg	Water (K.F.) .....	≤ 100 ppm	Total sulphur (S) .....	≤ 5 ppm
Water content (K.F.) .....	≤ 100 mg/Kg	Colour .....	≤ 10 APHA	Assay (GC) .....	≥ 99 %	Residue on evaporation .....	≤ 10 ppm
Identification .....	Positive	Refractive index at 20°C .....	1.373 ÷ 1.377	Aromatic compounds .....	≤ 10 ppm	Assay (CPG) .....	≥ 99 %

Code	Size	Packaging	Notes
447041	1 l	Glass bottle	
447042	2.5 l	Glass bottle	
P052053068	200 l	Metal drum	

## n-Hexane 99% > RE - Pure

**RE**

Description .....	Clear liquid	Density at 20°C .....	0.658 ÷ 0.662	Residue on evaporation .....	≤ 20 ppm	Total sulphur .....	≤ 5 ppm
Colour .....	≤ 10 APHA	Refractive index at 20°C .....	1.373 ÷ 1.377	Water (K.F.) .....	≤ 150 ppm	Assay (GLC) .....	≥ 99 %
Identification .....	Positive	Boiling point .....	68.2 ÷ 69.2 °C	Bromine rating .....	≤ 1	Aromatic compounds .....	≤ 50 ppm

Code	Size	Packaging	Notes
528950	5 l	Plastic tank	
528951	25 l	Metal drum	
528952	200 l	Metal drum	



## n-Hexane

• n-Esano • n-Hexane • n-Hexano • n-Hexan

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>  
 Molecular Weight: 86,18  
 CAS: 110-54-3  
 EEC-N: 203-777-6

**Classification transport**  
 ONU: 1208  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H315-H361f-H336-H373-H304-H411  
 P210-P241-P280-P303+P361+P353-P304+P340-  
 P403+P233

## n-Hexane > RS - For HPLC - Isocratic grade - Reag.Ph.Eur.

**RS**

Description .....	Clear colourless liquid	Residue on evaporation .....	≤ 2 ppm	at 230 nm .....	≥ 92 %	Density at 20°C .....	0.659 - 0.663
Identification .....	Positive	Acidity or alkalinity .....	≤ 0.00015 meq/g	at 240 nm .....	≥ 95 %	UV Absorbance from 260 nm to 420 nm .....	≤ 0.01 AU
Density at 25° C .....	≥ 0.662	Assay (GLC) .....	≥ 96 %	At 245 nm .....	≥ 98 %		
Refractive index at 20°C .....	1.3750 ÷ 1.3760	U.V. Transmittance		at 250 nm .....	≥ 99 %		
Boiling point .....	67 - 69 °C	at 210 nm .....	≥ 50 %	Aromatic compounds .....	≤ 10 ppm		
Water (K.F.) .....	≤ 100 ppm	at 220 nm .....	≥ 82 %	Total sulphur (S) .....	≤ 5 ppm		

Code	Size	Packaging	Notes
412601000	1 l	Glass bottle	
412602000	2.5 l	Glass bottle	

## n-Hexane > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination

**RS**

Appearance .....	Clear colourless liquid	Refractive index at 20°C .....	1.373 - 1.377	Assay (GC) .....	≥ 96.5 %	GC-ECD. Individual peak (Lindane) .....	≤ 2 ng/l
Identification .....	Conform	Colour .....	≤ 5 Hazen	Non volatile residue .....	≤ 2 mg/Kg	GC-FID. Individual peak (C10-C40) .....	≤ 2 µg/l
Density d20/4 .....	0.655 - 0.665	Water content (K.F.) .....	≤ 50 mg/Kg	GC-FID. Hydrocarbon oil index .....	≤ 0.05 mg/l	to decachlorobiphenyle	

Code	Size	Packaging	Notes
P0523216	1 l	Glass bottle	
P0523221	2.5 l	Glass bottle	

According to NF-EN-ISO9377-2 for hydrocarbon index determination

## n-Hexane > RS - PESTIPUR - For pesticide analysis

**RS**

Description .....	Clear liquid	Refractive index at 20° C .....	1.373 ÷ 1.377	GC-ECD (Lindano) .....	≤ 3 ng/l
Identification .....	Positive	Water (K.F.) .....	≤ 150 ppm	GC-NPD (Ethylparation) .....	≤ 3 ng/l
Colour .....	≤ 10 Hazen	Not volatile residue .....	≤ 5 ppm	Assay (GLC) .....	≥ 95 %

Code	Size	Packaging	Notes
447011	1 l	Glass bottle	
447012	2.5 l	Glass bottle	
447013	4 l	Glass bottle	

## n-Hexane > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.

**RS**

Description .....	Clear liquid	Acidity or alkalinity.....	≤0.00015 meq/g	Assay (GLC) .....	≥95 %	at 250 nm .....	≥99 %
Colour (APHA) .....	≤10	Water (K.F.) .....	≤100 ppm	U.V. Transmittance .....		UV Absorbance from 260 nm to 420 nm..	≤ 0.01 AU
Density at 20°C .....	0.659 ÷ 0.663	Residue on evaporation .....	≤2 ppm	at 220 nm .....	≥82 %		
Refractive index at 20°C.....	1.375 ÷ 1.376	Aromatic compounds.....	≤5 ppm	at 230 nm .....	≥92 %		
Boiling point.....	67 ÷ 69 ° C	Total sulphur .....	≤5 ppm	at 240 nm .....	≥95 %		

Code	Size	Packaging	Notes
446934	1 l	Glass bottle	
446932	2.5 l	Glass bottle	

## n-Hexane > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C.....	1.373 - 1.377	Colour .....	≤ 10 Hazen	Clear, colourless liq. appearance .....	Conform	Total sulphur (S) .....	≤ 5 ppm
Water content (K.F.) .....	≤ 50 mg/Kg	Assay (GC) .....	≥ 95 %	Identification (IR).....	Conform		
Non volatile residue.....	≤ 10 mg/Kg	Aromatic compounds.....	≤ 10 mg/Kg	Density d20/4 .....	0.655 - 0.665		

Code	Size	Packaging	Notes
P0521016	1 l	Glass bottle	

## n-Hexane > RPE - For analysis - ACS - Reag. Ph.Eur.

**RPE**

Description .....	Clear liquid	Density at 20°C .....	0.659 ÷ 0.663	Tiophene .....	Conform ACS	Assay (GLC) .....	≥95 %
Colour (APHA) .....	≤10	Refractive index at 20°C.....	1.375 ÷ 1.376	Total sulphur .....	≤ 5 ppm	Assay (hexan isomer+methylcyclopentane)≥	98.5 %
Identification .....	Positive	Distillation range .....	67 ÷ 69 ° C	Cu.....	≤0.01 ppm	Aromatic compounds.....	≤ 10 ppm
Alcohol miscibility.....	Complete	Water (K.F.) .....	≤100 ppm	Fe .....	≤0.1 ppm	Al .....	≤ 0.5 ppm
Diethyl ether miscib.....	Complete	Residue on evaporation .....	≤10 ppm	Ni.....	≤0.01 ppm		
Chloroform miscibility .....	Complete	Water-soluble titrable acid .....	≤0.0003 meq/g	Pb .....	≤0.01 ppm		
Ready carbonizable substances.....	Conform	Subst. reducing KMnO4.....	≤20 ppm (5m)	Zn .....	≤0.01 ppm		

Code	Size	Packaging	Notes
446907	1 l	Glass bottle	
446902	2.5 l	Glass bottle PVC coated	
446903	2.5 l	Glass bottle	
446901	5 l	Aluminium can	
446991	5 l	Plastic tank	
446905	18 kg	Metal drum	
446904	130 kg	Metal drum	

## n-Hexane > RE - Pure

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.3699 ÷ 1.3799		Acidity (Caproic acid) .....	≤ 40 ppm	Total sulphur (S) .....	≤ 5 ppm
Identification .....	Positive	Boiling point.....	68.2 ÷ 69.2 °C	Assay (GLC) .....	≥ 95 %		
Tiophene .....	Conform	Water (K.F.) .....	≤ 100 ppm	Colour .....	≤ 10 APHA		
Density at 20° C .....	0.655 ÷ 0.665	Residue on evaporation .....	≤ 20 ppm	Aromatic compounds.....	≤ 50 ppm		

Code	Size	Packaging	Notes
339751	1 l	Glass bottle	
339755	2.5 l	Glass bottle	
339752	5 l	Plastic tank	
339756	18 kg	Metal drum	
339758	25 l	Metal drum	
339757	130 kg	Metal drum	
339759	200 l	Metal drum	





## Hexane mixture of isomers

• Esano miscela di isomeri • Hexane mélange d'isomères • Hexano mezcla de isómeros • Hexan Isomerengemisch

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>  
Molecular Weight: 86,18  
CAS: 110-54-3  
EEC-N: 925-292-5

**Classification transport**  
ONU: 1208  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H315-H361-H336-H373-H304-H411  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### Hexane mixture of isomers > RS - For HPLC - Isocratic Grade

RS

Clear, colourless liq. appearance ..... Conform    Refractive index at 20°C ..... 1.375 - 1.383    Total sulphur (S) ..... ≤ 5 ppm    UV transmittance at 250 nm ..... ≥ 98 %  
Identification ..... Conform    Water content (K.F.) ..... ≤ 150 mg/Kg    Non volatile residue ..... ≤ 5 mg/Kg    UV transmittance at 260 nm ..... ≥ 98 %  
Colour ..... ≤ 10 Hazen    Aromatic compounds ..... ≤ 5 mg/Kg    UV transmittance at 240 nm ..... ≥ 94 %

Code	Size	Packaging	Notes
412632	1 l	Glass bottle	
412631	2.5 l	Glass bottle	

### Hexane mixture of isomers > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear liquid    Refractive index at 20° C ..... 1.375 ÷ 1.383    GC-ECD (Lindano) ..... ≤ 3 ng/l  
Identification ..... Positive    Water (K.F.) ..... ≤ 150 ppm    GC-NPD (Ethylparation) ..... ≤ 3 ng/l  
Colour ..... ≤ 10 Hazen    Not volatile residue ..... ≤ 5 ppm    GC-ECD (CCl<sub>4</sub>) ..... ≤ 1 µg/l

Code	Size	Packaging	Notes
447181	1 l	Glass bottle	
447182	2.5 l	Glass bottle	

### Hexane mixture of isomers > RPE - For analysis

RPE

Clear, colourless liq. appearance ..... Conform    Refractive index at 20°C ..... 1.375 - 1.383    GC chromatogram ..... Conform  
Identification ..... Conform    Water content (K.F.) ..... ≤ 100 mg/Kg    Aromatic compounds ..... ≤ 50 mg/Kg  
Colour ..... ≤ 10 Apha    Non volatile residue ..... ≤ 10 mg/Kg    Total sulphur (S) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
446892	1 l	Glass bottle	
446891	2.5 l	Glass bottle	
446893	25 l	Metal drum	

### Hexane mixture of isomers > RE - Pure

RE

Description ..... Clear colourless liquid    Density at 20° C ..... 0.665 ÷ 0.675    Boiling point ..... 63 ÷ 70 ° C    Residue on evaporation ..... ≤ 50 ppm  
Water content (K.F.) ..... ≤ 200 mg/Kg    Colour ..... ≤ 10 Hazen    Total sulphur (S) ..... ≤ 5 ppm    Total sulphur ..... ≤ 5 ppm  
Identification ..... Positive    Refractive index at 20°C. 1.3750 ÷ 1.3850    Water (K.F.) ..... ≤ 200 ppm  
Non volatile residue ..... ≤ 50 mg/Kg    GC chromatogram ..... Conform    Aromatics ..... ≤ 30 ppm

Code	Size	Packaging	Notes
339851	1 l	Glass bottle	
339852	2.5 l	Glass bottle	
528940	5 l	Plastic tank	
P0520040	10 l	Metal drum	
339856	18 kg	Metal drum	
528941	25 l	Metal drum	
528942	200 l	Metal drum	



## 1-Hexanesulphonic acid sodium salt

- Acido 1-esansolfonico sale sodico • Acide 1-hexanesulfonique sel sodique
- Acido 1-hexanosulfónico sal sódica • 1-Hexansulfonsäure-Natriumsalz

Synonym:  
*Sodium hexanesulfonate*

$\text{CH}_3(\text{CH}_2)_5\text{SO}_3\text{Na}$   
Molecular Weight: 188,22  
CAS: 2832-45-3  
EEC-N: 220-601-3



### Danger

H315-H319-H334-H317  
P261-P284-P304+P340-P305+P351+P338-  
P337+P313-P342+P311a

### 1-Hexanesulphonic acid sodium salt > RS - For ion pair chromatography

RS

Description .....	White crystalline powder	Absorbance (0,25M)	At 220 nm .....	≤ 0.04 AU	At 250 nm .....	≤ 0.01 AU	
Water (K.F) .....	≤ 2.0 %	At 200 nm .....	≤ 0.1 AU	At 230 nm .....	≤ 0.03 AU	At 260 nm .....	≤ 0.01 AU
Assay .....	≥ 99.0 %	At 210 nm .....	≤ 0.05 AU	At 240 nm .....	≤ 0.01 AU		

Code	Size	Packaging	Notes
405621	25 g	Glass bottle	
405622	100 g	Plastic bottle	



## 1-Hexanesulphonic acid sodium salt monohydrate

- Acido 1-esansolfonico sale sodico monoidrato • Acide 1-hexanesulfonique sel sodique monohydrate
- Acido 1-hexanosulfónico sal sódica monohidrato • 1-Hexansulfonsäure-Natriumsalz-Monohydrat

Synonym:  
*Sodium 1-hexanesulfonate monohydrate*

$\text{C}_6\text{H}_{13}\text{NaO}_3\text{S}\cdot\text{H}_2\text{O}$   
Molecular Weight: 206,24  
CAS: 207300-91-2

### 1-Hexanesulphonic acid sodium salt monohydrate > RS - For ion pair chromatography

RS

Description .....	White crystalline powder	Absorbance (0,25M)	At 220 nm .....	≤ 0.03 AU	At 250 nm .....	≤ 0.01 AU
Loss on drying .....	7.0 - 9.0 %	At 200 nm .....	≤ 0.1 AU	At 230 nm .....	≤ 0.02 AU	
Assay .....	≥ 99.0 %	At 210 nm .....	≤ 0.05 AU	At 240 nm .....	≤ 0.01 AU	

Code	Size	Packaging	Notes
405921	25 g	Glass bottle	
405922	100 g	Plastic bottle	

## Hexanoic acid ▶ n-Caproic acid



## Histamine dihydrochloride

- Istamina bicloridrato • Histamine dichlorhydratée • Histamina diclorhidrato • Histamindihydrochlorid

Synonym:  
*2-(4-Imidazolyl)ethylamine dihydrochloride*

$\text{C}_8\text{H}_{13}\text{N}_3\cdot 2\text{HCl}$   
Molecular Weight: 184,07  
CAS: 56-92-8  
EEC-N: 200-298-4



### Danger


H315-H319-H334-H317-H335  
P261-P284-P304+P340-P305+P351+P338-  
P342+P311a-P403+P233

### Histamine dihydrochloride > RPE - For analysis

RPE

Description .....	Yellowish crystalline powder	Loss on drying .....	≤ 0.5 %	Assay (non-aqueous medium) .....	≥ 98.5 %
Identification .....	Positive	Residue on ignition .....	≤ 0.1 %		

Code	Size	Packaging	Notes
456851	10 g	Glass bottle	
456852	100 g	Glass bottle	


	<b>L-Histidine hydrochloride monohydrate</b>	<b>Synonym:</b>
	<ul style="list-style-type: none"> <li>• L-Istidina monokloridrato monoidrato • L-Histidine monochlorhydratée monohydraté</li> <li>• L-Histidina monoklorhidrato monohidrat • L-Histidinmonohydrochloridmonohydrat</li> </ul>	<ul style="list-style-type: none"> <li>• L-Histidine monohydrochloride monohydrate</li> <li>• L-alpha-Amino-beta-(4-imidazolyl)propanoic acid monohydrochloride</li> </ul>
<p><math>C_8H_9N_3O_2 \cdot HCl \cdot H_2O</math>  Molecular Weight: 209,63  CAS: 5934-29-2</p>		

### L-Histidine hydrochloride monohydrate > RPE - For analysis

**RPE**

Description	White or almost white crystalline powder	Sulfate..... ≤ 300 ppm ppm	Heavy metals (Pb)..... ≤ 10 ppm	pH sol. 5%..... 3.0 ÷ 5.0
Identification	Positive	Ammonium..... ≤ 200 ppm	Loss on drying..... 7.0 ÷ 10.0 %	Assay (dried base)..... 98.5 ÷ 101.0 %
		Fe..... ≤ 10 ppm	Sulfated ashes..... ≤ 0.1 %	

Code	Size	Packaging	Notes
456952	25 g	Glass bottle	
456951	500 g	Plastic bottle	

	<b>Histolemon</b>	<b>Synonym:</b>
	<ul style="list-style-type: none"> <li>• Histolemon • Histolemon • Histolemon • Histolemon</li> </ul>	<ul style="list-style-type: none"> <li>• Orange oil</li> <li>• Citrus sinensis</li> </ul>
<p>CAS: 8028-48-6</p>		
<b>Classification transport</b>		<b>Danger</b>
ONU: 2052 Transport Hazard class: 3 Packing group III		 H226-H315-H317-H304-H410 P210-P241-P261-P280-P301+P310a-P303+P361+P353


### Histolemon > RS - For histology

**RS**

Description	Clear liquid	Identification	Positive	Assay (GLC)	≥ 95 %
Colour (APHA)	≤ 25	Density at 20° C	0.835 ÷ 0.845		

Code	Size	Packaging	Notes
454911	1 l	Glass bottle	
454912	2.5 l	Glass bottle	
454915	5 l	Plastic tank	

**Citrus based histological clearing agent**

	<b>Holmium standard solution</b>	<b>Synonym:</b>
	<ul style="list-style-type: none"> <li>• Olmio standard soluzione • Holmium solution standard • Holmio, solución patrón • Holmium-Standardlösung</li> </ul>	
<p><b>Classification transport</b>          ONU: 3264          Transport Hazard class: 8          Packing group II</p>		

### Holmium standard solution > RS - Standard solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
505657	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505658	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Holmium standard solution > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
504261	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504263	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504265	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
504267	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Holmium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507742	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507507	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Holmium oxide**

• Olmio ossido • Holmium oxyde • Holmio oxido • Holmiumoxid

Synonym:  
Holmium(III) oxide

Ho<sub>2</sub>O<sub>3</sub>  
Molecular Weight: 377,88  
CAS: 12055-62-8  
EEC-N: 235-015-3

**Holmium oxide > RPE - For analysis**

RPE

Description ..... Yellowish powder Identification ..... Positive Assay ..... > 99.85 %

Code	Size	Packaging	Notes
466831	1 g	Glass bottle	

**Holmium perchlorate in solution**

• Olmio perclorato soluzione • Holmium perchlorate solution • Holmio perclorato solución • Holmiumperchloratlösung

Ho(ClO<sub>4</sub>)<sub>3</sub>  
Molecular Weight: 481,3  
CAS: 14017-54-0

**Holmium perchlorate in solution > RS - For analysis according to Ph. Eur. Chap. 2.2.25**

RS

Code	Size	Packaging	Notes
506473	100 ml	Glass bottle	

**Holmium perchlorate in solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611043101	1 l	Glass bottle	Ref Ph.Eur 1043101

**Hyamine 1622**

• Hyamine 1622 • Hyamine 1622 • Hyamina 1622 • Hyamine 1622

Synonym:  
• Benzethonium chloride  
• (Diisobutylphenoxyethoxyethyl)dimethylbenzylammonium chloride

C<sub>27</sub>H<sub>42</sub>ClNO<sub>2</sub>  
Molecular Weight: 448,18  
CAS: 121-54-0  
EEC-N: 204-479-9

**Classification transport**  
ONU: 2923  
Transport Hazard class: 8  
Packing group III



**Danger**  
H301-H314-H410  
P280-P301+P310a-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338

**Hyamine 1622 > RPE - For analysis - Reag. Ph. Eur.**

RPE

Description ..... White powder Loss on drying ..... ≤ 5 % Assay (argentimetric) ..... ≥ 96.0 %  
Identification ..... Positive Melting point ..... 158 ± 163 °C

Code	Size	Packaging	Notes
454921	100 g	Plastic bottle	

**Hyamine 1622 solution 0.004M**

• Hyamine 1622 soluzione 0.004M • Hyamine 1622 solution 0.004M • Hyamina 1622 solución 0.004M  
• Hyamin 1622-Lösung 0.004M

## Synonym:

• Benzethonium chloride  
• (Diisobutylphenoxyethoxyethyl)dimethylbenzylammonium chloride

C<sub>27</sub>H<sub>42</sub>ClNO<sub>2</sub>

Molecular Weight: 448,18

CAS: 121-54-0

**Hyamine 1622 solution 0.004M > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613000901	100 ml	Plastic bottle	Ref Ph.Eur 3000900
613000900	1 l	Plastic bottle	Ref Ph.Eur 3000900

**Hyamine 1622 solution 0.004M > RS - For anionic surfactants detection**

RS

Description ..... Clear colourless liquid Identification ..... Positive Assay (at production) ..... 0.0035 ÷ 0.0045 Mol/l

Code	Size	Packaging	Notes
E454972	1 l	Glass bottle	

**Hydrazine dihydrochloride**

• Idrazina dicloridrato • Hydrazine dichlorhydraté • Hidrazina diclorhidrato • Hydraziniumchlorid

## Synonym:

Hydrazine dihydrochloride

NH<sub>2</sub>NH<sub>2</sub>·2HCl

Molecular Weight: 104,97

CAS: 5341-61-7

EEC-N: 226-283-2

## Classification transport

ONU: 3288

Transport Hazard class: 6.1

Packing group III



## Danger

H301-H311-H331-H317-H350-H410-HA26

P261-P280-P304+P340-P308+P313-P330-

P361+P364-P403+P233

**Hydrazine dihydrochloride > RPE - For analysis**

RPE

Description ..... White crystalline powder Water-insoluble matter ..... ≤50 ppm Sulphate ..... ≤10 ppm  
Identification ..... Positive Heavy metals (Pb) ..... ≤5 ppm Fe ..... ≤5 ppm  
Melting point ..... 193.5 ÷ 202.5 °C Residue on ignition ..... ≤100 ppm Assay (oxidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
455054	100 g	Plastic bottle	
455056	500 g	Plastic bottle	
455057	1 kg	Plastic bottle	

**Hydrindantin**

• Idrindantina • Hydrindantine • Hidrindantina • Hydrindantine

## Synonym:

2,2',3,3',3'-Hexahydro-2,2'-biindan-1,1'-dione

C<sub>18</sub>H<sub>10</sub>O<sub>6</sub>·2H<sub>2</sub>O

Molecular Weight: 358,26

CAS: 5950-69-6

EEC-N: 225-823-4



## Warning

H315-H319-H335

P261-P271-P304+P340-P305+P351+P338-

P332+P313-P403+P233

**Hydrindantin > RPE - For analysis**

RPE

Description ..... Beige powder Identification ..... Positive Melting point ..... ≥ 240 °C Assay ..... ≥ 95 %

Code	Size	Packaging	Notes
455291	5 g	Glass bottle	

**Hydriodic acid 57%**

• Acido iodidrico 57% • Acide iodhydrique 57% • Acido idriodico 57% • Jodwasserstoffsäure 57%

HI

Molecular Weight: 127,92  
CAS: 10034-85-2**Classification transport**ONU: 1787  
Transport Hazard class: 8  
Packing group II**Danger**H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Hydriodic acid 57% > RPE - For analysis - ACS****RPE**

Description .....	Dark red-brown solution	Free iodine (I) .....	≤ 7500 ppm	Sulfates .....	≤ 50 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤ 10 ppm	Fe .....	≤ 10 ppm
Chloride + bromide (Cl) .....	≤ 500 ppm	Residue on ignition .....	≤ 100 ppm	Phosphates .....	≤ 10 ppm

Code	Size	Packaging	Notes
406831	100 ml	Glass bottle	

**Stabilized with ~1,5% of hypophosphorous acid****Hydrobromic acid 48%**

• Acido bromidrico 48% • Acide bromhydrique 48% • Acido bromhídrico 48% • Bromwasserstoffsäure 48%

HBr

Molecular Weight: 80,92  
CAS: 10035-10-6**Classification transport**ONU: 1788  
Transport Hazard class: 8  
Packing group III**Danger**H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233**Hydrobromic acid 48% > RPE - For analysis - ACS - ISO****RPE**

Description .....	Yellow clear liquid	Heavy metals (Pb) .....	≤ 5 ppm	Se .....	≤ 0.01 ppm	Zn .....	≤ 0.5 ppm
Identification .....	Positive	Residue on ignition .....	≤ 20 ppm	Assay (acidimetric) .....	47.0 - 49.0 %	Sulphated ash .....	≤ 0.005 %
Chloride .....	≤ 200 ppm	Sulphate .....	≤ 30 ppm	Cd .....	≤ 0.5 ppm		
Total phosphorus .....	≤ 2 ppm	As .....	≤ 0.5 ppm	Cu .....	≤ 0.5 ppm		
Iodide .....	≤ 20 ppm	Fe .....	≤ 1 ppm	Pb .....	≤ 0.5 ppm		

Code	Size	Packaging	Notes
402925	250 ml	Glass bottle	
402922	1 l	Bottle	

**Hydrochloric acid 50% v/v**

• Acido cloridrico 50% v/v • Acide chlorhydrique 50% v/v • Acido clorhídrico 50% v/v • Salzsäure 50% v/v

HCl

Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7**Classification transport**ONU: 1789  
Transport Hazard class: 8  
Packing group II**Hydrochloric acid 50% v/v > RPE - For analysis****RPE**

Code	Size	Packaging	Notes
504571	1 l	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**





## Hydrochloric acid 37%

• Acido cloridrico 37% • Acide chlorhydrique 37% • Acido clorhidrico 37% • Salzsäure 37%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Hydrochloric acid 37% > RS - VLSI - For electronic use

RS

Code	Size	Packaging	Notes
527601	1 l	Plastic bottle	
527600	2.5 l	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**

### Hydrochloric acid 37% > RS - RSE - For electronic use

RS

Description .....	Clear liquid	Sulphite .....	≤0.5 ppm	Cr .....	≤0.01 ppm	Ni .....	≤0.01 ppm
Colour (APHA) .....	≤10	Ag .....	≤0.02 ppm	Cu .....	≤0.005 ppm	Pb .....	≤0.05 ppm
Identification .....	Positive	Al .....	≤0.05 ppm	Fe .....	≤0.1 ppm	Pt .....	≤0.05 ppm
Assay (acidimetric) .....	≥36.5 %	As .....	≤0.005 ppm	Ga .....	≤0.02 ppm	Sb .....	≤0.005 ppm
Density at 20° C .....	1.183 ÷ 1.189	Au .....	≤0.05 ppm	Hg .....	≤0.1 ppm	Sn .....	≤0.02 ppm
Ammonium .....	≤1 ppm	B .....	≤0.02 ppm	In .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Bromide .....	≤2 ppm	Ba .....	≤0.05 ppm	K .....	≤0.1 ppm	Ta .....	≤0.1 ppm
Free chlorine .....	≤0.5 ppm	Be .....	≤0.02 ppm	Li .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Phosphate .....	≤0.1 ppm	Bi .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Heavy metals (Pb) .....	≤0.1 ppm	Ca .....	≤0.5 ppm	Mn .....	≤0.01 ppm	V .....	≤0.05 ppm
Residue on ignition .....	≤2 ppm	Cd .....	≤0.005 ppm	Mo .....	≤0.05 ppm	Zn .....	≤0.02 ppm
Sulphate .....	≤0.5 ppm	Co .....	≤0.01 ppm	Na .....	≤0.5 ppm	Zr .....	≤0.05 ppm

Code	Size	Packaging	Notes
403977	1 l	Glass bottle	
403971	2.5 l	Glass bottle	
403974	25 kg	Drum	

### Hydrochloric acid 37% > RS - MOS - For electronic use

RS

Description .....	Clear liquid	Sulphite .....	≤0.5 ppm	Cr .....	≤0.01 ppm	Ni .....	≤0.01 ppm
Colour (APHA) .....	≤10	Ag .....	≤0.02 ppm	Cu .....	≤0.005 ppm	Pb .....	≤0.05 ppm
Identification .....	Positive	Al .....	≤0.05 ppm	Fe .....	≤0.1 ppm	Pt .....	≤0.05 ppm
Assay (acidimetric) .....	≥36.5 %	As .....	≤0.005 ppm	Ga .....	≤0.02 ppm	Sb .....	≤0.005 ppm
Density at 20° C .....	1.183 ÷ 1.189	Au .....	≤0.05 ppm	Hg .....	≤0.1 ppm	Sn .....	≤0.02 ppm
Ammonium .....	≤1 ppm	B .....	≤0.02 ppm	In .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Bromide .....	≤2 ppm	Ba .....	≤0.05 ppm	K .....	≤0.1 ppm	Ta .....	≤0.1 ppm
Free chlorine .....	≤0.5 ppm	Be .....	≤0.02 ppm	Li .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Phosphate .....	≤0.1 ppm	Bi .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Heavy metals (Pb) .....	≤0.1 ppm	Ca .....	≤0.5 ppm	Mn .....	≤0.01 ppm	V .....	≤0.05 ppm
Residue on ignition .....	≤2 ppm	Cd .....	≤0.005 ppm	Mo .....	≤0.05 ppm	Zn .....	≤0.02 ppm
Sulphate .....	≤0.5 ppm	Co .....	≤0.01 ppm	Na .....	≤0.5 ppm	Zr .....	≤0.05 ppm

Code	Size	Packaging	Notes
403942	1 l	Glass bottle	
403941	2.5 l	Glass bottle	

**Hydrochloric acid 37% > RPE - For analysis - ISO****RPE**

Description .....	Clear liquid	Residue on ignition .....	≤5 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.02 ppm
Colour (APHA) .....	≤10	Sulphate .....	≤1 ppm	Cr .....	≤0.02 ppm	Pb .....	≤0.05 ppm
Identification .....	Positive	Sulphite .....	≤0.5 ppm	Cu .....	≤0.01 ppm	Sr .....	≤0.02 ppm
Density at 20° C .....	1.181 ÷ 1.189	Al .....	≤0.2 ppm	Fe .....	≤0.2 ppm	Ti .....	≤1 ppm
Residue on evaporation .....	≤100 ppm	As .....	≤0.01 ppm	Hg .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Ammonium .....	≤1 ppm	Ba .....	≤0.1 ppm	Li .....	≤0.05 ppm	V .....	≤ 0.5 ppm
Bromide .....	≤50 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.3 ppm	Zn .....	≤0.5 ppm
Free chlorine .....	≤ 4 ppm	Bi .....	≤0.05 ppm	Mn .....	≤0.01 ppm	Zr .....	≤0.05 ppm
Phosphate .....	≤0.5 ppm	Ca .....	≤0.5 ppm	Mo .....	≤0.05 ppm	Assay (acidimetric) .....	≥36.5 %
Heavy metals (Pb) .....	≤ 1 ppm	Cd .....	≤0.005 ppm	Na .....	≤5 ppm		

Code	Size	Packaging	Notes
403871	1 l	Glass bottle	
403876	1 l	Glass bottle PVC coated	
524525	1 l	Plastic bottle	
403872	2.5 l	Glass bottle	
524526	2.5 l	Plastic bottle	
403878	5 l	Plastic tank	
403874	25 kg	Plastic drum	

**Hydrochloric acid 37% > ERBApharm - According to pharmacopeia: Ph.Eur.-NF-FU-Ph.Franc.-BP-JP****ERBApharm**

Description .....	Clear colourless liquid	Free chlorine or bromide..	Conform USP-NF	Residue on evaporation .....	≤ 100 ppm	Assay (acidimetric) .....	36.5 ÷ 38.0 %
Identification .....	Positive	Sulphite .....	Conform USP-NF	Residue on ignition .....	≤ 80 ppm	As .....	≤ 1 ppm
Appearance of solution .....	Conform Ph.Eur.	Sulphate .....	Conform USP-NF	Free chlorine .....	≤ 4 ppm	Hg .....	≤ 0.04 ppm
Bromide or iodide .....	Conform USP-NF	Density at 20° C .....	~ 1.18	Heavy metals (Pb) .....	≤ 2 ppm		

Code	Size	Packaging	Notes
302621	1 l	Glass bottle	
302626	2.5 l	Glass bottle	
302643	5 l	Plastic tank	
302624	10 l	Plastic tank	
302623	25 kg	Plastic drum	
302622	40 kg	Plastic tank	
302627	55 kg	Plastic tank	
302625	220 kg	Plastic drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Hydrochloric acid 37% > RE - Pure****RE**

Assay .....	36.0 ÷ 38.5 %	Residue on ignition .....	≤ 20 ppm	Heavy metals .....	≤ 5 ppm	Free chloride (Cl) .....	≤ 20 ppm
Description .....	Clear colourless liquid or yellowish	Density at 20°C .....	1.183 ÷ 1.189	Assay (acidimetric) .....	36.5 - 37.5 %	Iron (Fe) .....	≤ 2 ppm

Code	Size	Packaging	Notes
528525	5 l	Tank	
303871	25 kg	Plastic tank	



## Hydrochloric acid 34-37%

• Acido cloridrico 34-37% • Acide chlorhydrique 34-37% • Acido clorhidrico 34-37% • Salzsäure 34-37%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Hydrochloric acid 34-37% > RS - Superpure - For trace analysis at ppb level

RS

Description .....	Clear liquid	Fe .....	≤ 1 ppb	Assay (acidimetric) .....	34 ÷ 37 %	Nb .....	≤ 0.1 ppb
Identification .....	Positive	Hg .....	≤ 0.1 ppb	Th .....	≤ 0.1 ppb	Pr .....	≤ 0.1 ppb
Bromide .....	≤ 10 ppm	K .....	≤ 1 ppb	U .....	≤ 0.1 ppb	Re .....	≤ 0.1 ppb
Free chlorine .....	≤ 0.5 ppm	Li .....	≤ 0.1 ppb	Colour (APHA) .....	≤ 10	Rh .....	≤ 0.1 ppb
Total phosphorus .....	≤ 0.01 ppm	Mg .....	≤ 0.5 ppb	Ce .....	≤ 0.1 ppb	Rb .....	≤ 0.1 ppb
Total sulphur .....	≤ 0.3 ppm	Mn .....	≤ 0.1 ppb	Cs .....	≤ 0.1 ppb	Ru .....	≤ 0.1 ppb
Ag .....	≤ 1 ppb	Mo .....	≤ 0.1 ppb	Dy .....	≤ 0.1 ppb	Sm .....	≤ 0.1 ppb
Al .....	≤ 1 ppb	Na .....	≤ 1 ppb	Er .....	≤ 0.1 ppb	Sc .....	≤ 0.1 ppb
As .....	≤ 0.5 ppb	Ni .....	≤ 0.5 ppb	Eu .....	≤ 0.1 ppb	Te .....	≤ 0.1 ppb
B .....	≤ 1 ppb	Pb .....	≤ 0.1 ppb	Gd .....	≤ 0.1 ppb	Tb .....	≤ 0.1 ppb
Ba .....	≤ 0.1 ppb	Sb .....	≤ 0.5 ppb	Ga .....	≤ 0.1 ppb	Ti .....	≤ 0.1 ppb
Be .....	≤ 0.1 ppb	Se .....	≤ 1 ppb	Au .....	≤ 0.5 ppb	Tm .....	≤ 0.1 ppb
Bi .....	≤ 0.1 ppb	Sn .....	≤ 0.5 ppb	Hf .....	≤ 0.1 ppb	W .....	≤ 0.1 ppb
Ca .....	≤ 1 ppb	Sr .....	≤ 0.1 ppb	Ho .....	≤ 0.1 ppb	Yb .....	≤ 0.1 ppb
Cd .....	≤ 0.1 ppb	Ti .....	≤ 0.5 ppb	In .....	≤ 0.1 ppb	Y .....	≤ 0.1 ppb
Co .....	≤ 0.1 ppb	V .....	≤ 0.5 ppb	La .....	≤ 0.1 ppb		
Cr .....	≤ 0.5 ppb	Zn .....	≤ 1 ppb	Lu .....	≤ 0.1 ppb		
Cu .....	≤ 0.5 ppb	Zr .....	≤ 0.1 ppb	Nd .....	≤ 0.1 ppb		

Code	Size	Packaging	Notes
403915	500 ml	Plastic bottle	
403916	1 l	Plastic bottle	
403917	2.5 l	Plastic bottle	



## Hydrochloric acid 32-35%

• Acido cloridrico 32-35% • Acide chlorhydrique 32-35% • Acido clorhidrico 32-35% • Salzsäure 32-35%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Hydrochloric acid 32-35% > RS - Ultrapure - For trace analysis at ppt level

RS

Description .....	Clear colourless liquid	Cs .....	≤ 10 ppt	U .....	≤ 1 ppt	Rh .....	≤ 10 ppt
Identification .....	Positive	Cu .....	≤ 10 ppt	Th .....	≤ 1 ppt	Rb .....	≤ 10 ppt
Ag .....	≤ 10 ppt	Dy .....	≤ 1 ppt	Sb .....	≤ 20 ppt	Ru .....	≤ 10 ppt
Al .....	≤ 20 ppt	Mn .....	≤ 10 ppt	Gd .....	≤ 1 ppt	Sm .....	≤ 1 ppt
As .....	≤ 50 ppt	Eu .....	≤ 1 ppt	Ga .....	≤ 10 ppt	Sc .....	≤ 10 ppt
Au .....	≤ 50 ppt	Fe .....	≤ 10 ppt	Hf .....	≤ 10 ppt	Te .....	≤ 1 ppt
B .....	≤ 100 ppt	Ni .....	≤ 20 ppt	Ho .....	≤ 1 ppt	Tb .....	≤ 1 ppt
Ba .....	≤ 10 ppt	Pb .....	≤ 10 ppt	In .....	≤ 1 ppt	Tm .....	≤ 1 ppt
Be .....	≤ 10 ppt	Sn .....	≤ 20 ppt	La .....	≤ 1 ppt	W .....	≤ 10 ppt
Bi .....	≤ 10 ppt	Sr .....	≤ 10 ppt	Li .....	≤ 10 ppt	Yb .....	≤ 1 ppt
Ca .....	≤ 10 ppt	Ti .....	≤ 10 ppt	Lu .....	≤ 10 ppt	Y .....	≤ 1 ppt
Cd .....	≤ 10 ppt	Tl .....	≤ 10 ppt	Nd .....	≤ 1 ppt	Zr .....	≤ 10 ppt
Ce .....	≤ 10 ppt	V .....	≤ 10 ppt	Nb .....	≤ 1 ppt		
Co .....	≤ 10 ppt	Zn .....	≤ 10 ppt	Pr .....	≤ 1 ppt		
Cr .....	≤ 10 ppt	Assay (acidimetric) .....	32 ÷ 35 %	Re .....	≤ 10 ppt		

Code	Size	Packaging	Notes
403891	500 ml	Plastic bottle	



## Hydrochloric acid 32% (20°Bé)

• Acido cloridrico 32% (20°Bé) • Acide chlorhydrique 32% (20°Bé) • Acido clorhidrico 32% (20°Bé) • Salzsäure 32% (20°Bé)

HCl  
Molecular Weight: 36,461  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Hydrochloric acid 32% (20°Bé) > RE - Pure

RE

Description ..... Yellow clear liquid    Density at 20° C ..... ≥1.154    Assay (acidimetric) ..... ≥31.0 %

Code	Size	Packaging	Notes
302664	25 kg	Plastic drum	(20°Bé)



## Hydrochloric acid 32%

• Acido cloridrico 32% • Acide chlorhydrique 32% • Acido clorhidrico 32% • Salzsäure 32%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Hydrochloric acid 32% > RPE - For analysis - ISO

RPE

Description ..... Clear liquid	Sulphate ..... ≤0.8 ppm	Cr ..... ≤0.02 ppm	Pb ..... ≤0.05 ppm
Colour (APHA) ..... ≤10	Sulphite ..... ≤0.5 ppm	Cu ..... ≤0.01 ppm	Sr ..... ≤0.02 ppm
Identification ..... Positive	Al ..... ≤0.05 ppm	Fe ..... ≤0.1 ppm	Ti ..... ≤1 ppm
Density at 20° C ..... 1.159 - 1.164	As ..... ≤0.01 ppm	Hg ..... ≤0.1 ppm	Tl ..... ≤0.05 ppm
Ammonium ..... ≤1 ppm	Ba ..... ≤0.1 ppm	Li ..... ≤0.05 ppm	V ..... ≤0.5 ppm
Bromide ..... ≤50 ppm	Be ..... ≤0.02 ppm	Mg ..... ≤0.3 ppm	Zn ..... ≤0.5 ppm
Free chlorine ..... ≤ 4 ppm	Bi ..... ≤0.05 ppm	Mn ..... ≤0.01 ppm	Zr ..... ≤0.05 ppm
Phosphate ..... ≤0.5 ppm	Ca ..... ≤0.5 ppm	Mo ..... ≤0.05 ppm	Assay (acidimetric) ..... 32.0 - 33.0 %
Heavy metals (Pb) ..... ≤1 ppm	Cd ..... ≤0.005 ppm	Na ..... ≤5 ppm	
Residue on ignition ..... ≤5 ppm	Co ..... ≤0.01 ppm	Ni ..... ≤0.02 ppm	

Code	Size	Packaging	Notes
403981	2.5 l	Glass bottle	
403984	2.5 l	Plastic bottle	
403982	25 kg	Plastic drum	
403986	55 kg	Plastic tank	
403988	220 kg	Plastic drum	

### Hydrochloric acid 32% > RE - Pure

RE

Description ... Clear colourless or light yellow liquid    Free chlorine ..... ≤100 ppm    Residue on ignition ..... ≤0.1 %    Fe ..... ≤2 ppm  
Density at 20°C ..... 1.157 - 1.171    Heavy metals (Pb) ..... ≤50 ppm    Sulphate ..... ≤200 ppm    Assay ..... 32 ÷ 34 %

Code	Size	Packaging	Notes
302601	1 l	Glass bottle	
302602	25 kg	Plastic drum	
302604	30 kg	Plastic drum	



## Hydrochloric acid 29-31%

• Acido cloridrico 29-31 % • Acide chlorhydrique 29-31 % • Acido clorhidrico 29-31 % • Salzsäure 29-31 %

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Hydrochloric acid 29-31% > RS - Superpure - For trace analysis at ppb level

RS

Code	Size	Packaging	Notes
403921	1 l	Plastic bottle	

For specifications, contact our customer service for a certificate of analysis



## Hydrochloric acid 26%

• Acido cloridrico 26% • Acide chlorhydrique 26% • Acido clorhidrico 26% • Salzsäure 26%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Hydrochloric acid 26% > RE - Pure

RE

HCl content..... 25 - 27 %

Code	Size	Packaging	Notes
PS0769/20	2.5 l	Plastic bottle	



## Hydrochloric acid 25% w/v

• Acido cloridrico 25% m/v • Acide chlorhydrique 25% m/v • Acido clorhidrico 25% p/v • Salzsäure 25% m/v

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Hydrochloric acid 25% w/v > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043501	1 l	Plastic bottle	Hydrochloric acid R1 Ref Ph.Eur 1043501

**Hydrochloric acid 23%**

• Acido cloridrico 23% • Acide chlorhydrique 23% • Acido clorhidrico 23% • Salzsäure 23%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Hydrochloric acid 23% > RPE - For analysis - ISO****RPE**

Description .....	Clear liquid	Sulphate .....	≤0.8 ppm	Cu .....	≤0.01 ppm	Sr .....	≤0.02 ppm
Colour (APHA) .....	≤10	Sulphite .....	≤0.5 ppm	Fe .....	≤0.1 ppm	Ti .....	≤1 ppm
Identification .....	Positive	Al .....	≤0.05 ppm	Hg .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Density at 20° C .....	1.113 - 1.119	As .....	≤0.01 ppm	Li .....	≤0.05 ppm	V .....	≤0.5 ppm
Ammonium .....	≤1 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.3 ppm	Zn .....	≤0.5 ppm
Bromide .....	≤50 ppm	Bi .....	≤0.05 ppm	Mn .....	≤0.03 ppm	Zr .....	≤0.05 ppm
Free chlorine .....	≤4 ppm	Ca .....	≤0.5 ppm	Mo .....	≤0.05 ppm	Assay (acidimetric) .....	23.0 - 24.0 %
Phosphate .....	≤0.5 ppm	Cd .....	≤0.005 ppm	Na .....	≤5 ppm		
Heavy metals (Pb) .....	≤1 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.02 ppm		
Residue on ignition .....	≤5 ppm	Cr .....	≤0.02 ppm	Pb .....	≤0.05 ppm		

Code	Size	Packaging	Notes
403901	1 l	Glass bottle	
403905	2.5 l	Glass bottle	
403909	25 kg	Plastic drum	

**Hydrochloric acid 20%**

• Acido cloridrico 20% • Acide chlorhydrique 20% • Acido clorhidrico 20% • Salzsäure 20%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Hydrochloric acid 20% > RPE - For analysis****RPE**

Description .....

Clear colourless liquid    Identification .....

Positive    Assay .....

19.50 - 20.50 %

Code	Size	Packaging	Notes
524561	10 l	Plastic tank	

**Hydrochloric acid 20% > RE - Pure****RE**

Assay .....

19 - 21 %

Code	Size	Packaging	Notes
PS0751/29	5 l	Plastic tank	

**Hydrochloric acid 12%**

• Acido cloridrico 12% • Acide chlorhydrique 12% • Acido clorhidrico 12% • Salzsäure 12%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Hydrochloric acid 12% > RS - For analysis****RS**

Assay .....

11.0 - 13.0 %    Clear liquid appearance .....

Conform    Colour .....

≤ J7

Density d20/4 .....

1.052 - 1.063    Identification .....

Conform

Code	Size	Packaging	Notes
PS0347/22	5 l	Plastic tank	
PS0347/49	25 l	Plastic tank	
PS0347/66	200 l	Plastic drum	





## Hydrochloric acid 10%

• Acido cloridrico 10% • Acide chlorhydrique 10% • Acido clorhidrico 10% • Salzsäure 10%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Hydrochloric acid 10% > ERBApharm - According to pharmacopoeia: Ph.Eur.

ERBApharm

Description ..... Clear colourless liquid    Free chlorine..... ≤ 1 ppm    Residue on evaporation ..... ≤ 100 ppm  
Identification ..... Positive    Sulphate ..... ≤ 5 ppm    Assay ..... 9.5 - 10.5 % (m/m)  
Appearance ..... Conform Ph.Eur.    Heavy metals (Pb)..... ≤ 2 ppm    Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
302591	10 kg	Plastic tank	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

### Hydrochloric acid 10% > RE - Pure

RE

Hydrochloric acid content..... 9.9 - 10.1 %

Code	Size	Packaging	Notes
PS0768/41	10 l	Plastic tank	



## Hydrochloric acid 8%

• Acido cloridrico 8% • Acide chlorhydrique 8% • Acido clorhidrico 8% • Salzsäure 8%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 8% > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Free chlorine..... ≤0.5 ppm    Sulphite..... ≤1 ppm    Assay (acidimetric) ..... 8.0 - 9.0 %  
Density at 20° C ..... 1.037 - 1.043    Heavy metals (Pb)..... ≤1 ppm    As ..... ≤0.01 ppm  
Ammonium ..... ≤30 ppm    Sulphate ..... ≤1 ppm    Fe ..... ≤0.3 ppm

Code	Size	Packaging	Notes
404033	10 kg	Plastic tank	
404036	55 kg	Plastic tank	



## Hydrochloric acid 5%

• Acido cloridrico 5% • Acide chlorhydrique 5% • Acido clorhidrico 5% • Salzsäure 5%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 5% > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Hydrochloric acid content..... 4.5 - 5.5 %

Code	Size	Packaging	Notes
PS0864/41	10 l	Plastic tank	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

**Hydrochloric acid 1.128% m/v**

• Acido cloridrico 1.128% m/v • Acide chlorhydrique 1.128% m/v • Acido clorhidrico 1.128% p/v • Salzsäure 1.128% m/v

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III**Warning**  
H290  
P234-P390-P406**Hydrochloric acid 1.128% m/v > RS - For agroalimentary analysis**

RS

Description ..... Clear colourless liquid Assay ..... 1.123 ÷ 1.133 % m/v

Code	Size	Packaging	Notes
502761	1 l	Plastic bottle	

**Hydrochloric Acid 9 mol/l (9N)**

• Acido cloridrico 9 mol/l (9N) • Acide chlorhydrique 9 mol/l (9N) • Acido clorhidrico 9 mol/l (9N) • Salzsäure 9 mol/l (9N)

HCl  
Molecular Weight: 36,46  
EEC-N: 231-595-7**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II**Danger**  
H290-H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233**Hydrochloric Acid 9 mol/l (9N) > RS - For analysis**

RS

Assay (potentiometry) ..... 8.982 - 9.018 N

Code	Size	Packaging	Notes
PS0313/20	2.5 l	Plastic bottle	

**Hydrochloric acid 6 mol/l (6N)**

• Acido cloridrico 6 mol/l (6N) • Acide chlorhydrique 6 mol/l (6N) • Acido clorhidrico 6 mol/l (6N) • Salzsäure 6 mol/l (6N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III**Warning**  
H290-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233**Hydrochloric acid 6 mol/l (6N) > RS - For agroalimentary analysis**

RS

Description ..... Clear colourless liquid Assay ..... 5.97 ÷ 6.03 N Colour ..... ≤ 10 Hazen

Code	Size	Packaging	Notes
502831	1 l	Plastic bottle	
502832	18 l	Plastic tank	

**Store between 15-30 °C****Hydrochloric acid 6 mol/l (6N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613001500	1 l	Plastic bottle	Ref Ph.Eur 3001500

**Hydrochloric acid 6 mol/l (6N) > ERBapharm - Prepared from raw material according Ph.Eur**

ERBapharm

Assay (potentiometric) ..... 5.9 ÷ 6.1 mol/L

Code	Size	Packaging	Notes
528651	25 l	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Hydrochloric acid 6 mol/l (6N) > RE - Pure**

RE

Description ..... Clear colourless liquid Colour ..... ≤ 10 Hazen Assay ..... 5.95 ÷ 6.05 N

Code	Size	Packaging	Notes
528550000	5 l	Plastic tank	



## Hydrochloric acid 5 mol/l (5N)

• Acido cloridrico 5 mol/l (5N) • Acide chlorhydrique 5 mol/l (5N) • Acido clorhidrico 5 mol/l (5N) • Salzsäure 5 mol/l (5N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Hydrochloric acid 5 mol/l (5N) > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Assay (potentiometric) ..... 4.99 - 5.01 mol/L

Code	Size	Packaging	Notes
528731	25 l	Plastic tank	

### Hydrochloric acid 5 mol/l (5N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 4.995 - 5.005 N

Code	Size	Packaging	Notes
P3160015	1 l	Plastic bottle	
P3160095	5 l	Kubidos	



## Hydrochloric acid 4 mol/l (4N)

• Acido cloridrico 4 mol/l (4N) • Acide chlorhydrique 4 mol/l (4N) • Acido clorhidrico 4 mol/l (4N) • Salzsäure 4 mol/l (4N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Hydrochloric acid 4 mol/l (4N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid    Assay ..... 3.992 ÷ 4.008 N

Code	Size	Packaging	Notes
502010	1 l	Plastic bottle	

**145,84 g of HCl. Ready-to-use. Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed**

### Hydrochloric acid 4 mol/l (4N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 3.992 - 4.008 N

Code	Size	Packaging	Notes
PS0589/15	1 l	Plastic bottle	
PS0589/22	5 l	Plastic tank	
PS0589/49	25 l	Plastic tank	

### Hydrochloric acid 4 mol/l (4N) > ERBapharm - Prepared from raw material according Ph.Eur

ERBapharm

Identification (Ph.Eur)..... Conform    Assay (Ph.Eur)..... 3.8 - 4.2 N    Origine (BSE-TSE)..... Conform    Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
528681	1 l	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Hydrochloric acid 3 mol/l (3N)**

• Acido cloridrico 3 mol/l (3N) • Acide chlorhydrique 3 mol/l (3N) • Acido clorhidrico 3 mol/l (3N) • Salzsäure 3 mol/l (3N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III**Warning**  
H290-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233**Hydrochloric acid 3 mol/l (3N) > RS - For agroalimentary analysis**

RS

Description ..... Clear colourless liquid Assay ..... 2.95 ÷ 3.05 N

Code	Size	Packaging	Notes
502621	1 l	Plastic bottle	
502622	2.5 l	Plastic bottle	
502011	25 l	Plastic tank	

**Hydrochloric acid 2 mol/l (2N)**

• Acido cloridrico 2 mol/l (2N) • Acide chlorhydrique 2 mol/l (2N) • Acido clorhidrico 2 mol/l (2N) • Salzsäure 2 mol/l (2N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III**Warning**  
H290  
P234-P390-P406**Hydrochloric acid 2 mol/l (2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613001700	1 l	Plastic bottle	Ref Ph.Eur 3001700

**Hydrochloric acid 2 mol/l (2N) > RPE - For analysis**

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 723.....e

Code	Size	Packaging	Notes
404067000	1 l	Plastic bottle	Certified with NIST traceability
404062000	5 l	Kubidos	Certified with NIST traceability
404061000	10 l	Kubidos	Certified with NIST traceability

**72.92 g of HCl. Volumetric solution ready-to-use****Hydrochloric acid 2 mol/l (2N) > ERBApharm - Prepared from raw material according Ph.Eur**

ERBApharm

Identification (Ph.Eur).....Conform Assay (Ph.Eur).....1.9 - 2.1 N Origine (BSE-TSE).....Conform Residual solvents (Current ICH)

Code	Size	Packaging	Notes
528691	1 l	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Hydrochloric acid 1 mol/l (1N)**

• Acido cloridrico 1 mol/l (1N) • Acide chlorhydrique 1 mol/l (1N) • Acido clorhidrico 1 mol/l (1N) • Salzsäure 1 mol/l (1N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III**Warning**  
H290  
P234-P390-P406**Hydrochloric acid 1 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613001801	500 ml	Plastic bottle	Ref Ph.Eur 3001800
613001800	1 l	Plastic bottle	Ref Ph.Eur 3001800

## Hydrochloric acid 1 mol/l (1N) > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000191	1 l	Plastic bottle	

## Hydrochloric acid 1 mol/l (1N) > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.998 - 1.002 N

Code	Size	Packaging	Notes
528673	5 l	Kubidos	
528671	10 l	Kubidos	
528672	200 l	Polythene-metal drum	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**

## Hydrochloric acid 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 723.....e

Code	Size	Packaging	Notes
404097000	1 l	Plastic bottle	Certified with NIST traceability
404092000	5 l	Kubidos	Certified with NIST traceability
404091000	10 l	Kubidos	Certified with NIST traceability
404094000	20 l	Plastic tank	Certified with NIST traceability

**36.46 g of HCl. Volumetric solution ready-to-use**

## Hydrochloric acid 1 mol/l (1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404111		Plastic ampoule	Volume: 165 ml

**36,46 g of HCl. Volumetric concentrated solution to prepare 1 L of solution 1 N**

## Hydrochloric acid 1 mol/l (1N) > ERBapharm - Prepared from raw material according Ph.Eur

ERBapharm

Clear, colourless liquid ..... Conform Assay (Ph.Eur) ..... 0.95 - 1.05 N Residual solvents (Current ICH) ..... Conform  
Identification (Ph.Eur) ..... Conform Origine (BSE-TSE) ..... Conform

Code	Size	Packaging	Notes
528583	1 l	Plastic bottle	
528584	5 l	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Hydrochloric acid 0.714 mol/l (N/1.4)

• Acido cloridrico 0.714 mol/l (N/1.4) • Acide chlorhydrique 0.714 mol/l (N/1.4) • Acido clorhídrico 0.714 mol/l (N/1.4) • Salzsäure 0.714 mol/l (N/1.4)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

## Hydrochloric acid 0.714 mol/l (N/1.4) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 0.710 ÷ 0.718 N

Code	Size	Packaging	Notes
526531	10 l	Kubidos	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**

**Hydrochloric acid 0.5 mol/l (0.5N)**

• Acido cloridrico 0.5 mol/l (0.5N) • Acide chlorhydrique 0.5 mol/l (0.5N) • Acido clorhidrico 0.5 mol/l (0.5N) • Salzsäure 0.5 mol/l (0.5N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III**Warning**  
H290  
P234-P390-P406**Hydrochloric acid 0.5 mol/l (0.5N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 723.....e

Code	Size	Packaging	Notes
404147000	1 l	Plastic bottle	Certified with NIST traceability
404142000	5 l	Kubidos	Certified with NIST traceability
404141000	10 l	Kubidos	Certified with NIST traceability

**18,23 g of HCl. Volumetric solution ready-to-use****Hydrochloric acid 0.5 mol/l (0.5N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404161		Plastic ampoule	Volume: 165 ml

**18,230 g HCl. Volumetric concentrated solution to prepare 1 L of solution 0,5 N****Hydrochloric acid 0.2 mol/l (0.2N)**

• Acido cloridrico 0.2 mol/l (0.2N) • Acide chlorhydrique 0.2 mol/l (0.2N) • Acido clorhidrico 0.2 mol/l (0.2N) • Salzsäure 0.2 mol/l (0.2N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III**Warning**  
H290  
P234-P390-P406**Hydrochloric acid 0.2 mol/l (0.2N) > RS - For agroalimentary analysis****RS**

Description ..... Clear colourless liquid Assay ..... 0.195 ÷ 0.205 N

Code	Size	Packaging	Notes
502631	1 l	Plastic bottle	

**7,292 g of HCl. Ready-to-use solution according to NF V04-242. Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed****Hydrochloric acid 0.2 mol/l (0.2N) in propanol-2**

• Acido cloridrico 0.2 mol/l (0.2N) in isopropanolo • Acide chlorhydrique 0.2 mol/l (0.2N) dans propanol-2 • Acido clorhidrico 0.2 mol/l (0.2N) en propan-2-ol • Salzsäure 0.2 mol / l (0.2 N) in Propanol-2

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0**Classification transport**  
ONU: 2924  
Transport Hazard class: 3  
Packing group II**Danger**  
H225-H290-H319-H336  
P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233**Hydrochloric acid 0.2 mol/l (0.2N) in propanol-2 > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Color ..... ≤ 10 APHA Assay ..... 0,195 ÷ 0,205 N

Code	Size	Packaging	Notes
526535	1 l	Glass bottle	





## Hydrochloric acid 0.1 mol/l (0.1N)

• Acido cloridrico 0.1 mol/l (0.1N) • Acide chlorhydrique 0.1 mol/l (0.1N) • Acido clorhidrico 0.1 mol/l (0.1N) • Salzsäure 0.1 mol/l (0.1N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613002101	500 ml	Plastic bottle	Ref Ph.Eur 3002100
613002100	1 l	Plastic bottle	Ref Ph.Eur 3002100

### Hydrochloric acid 0.1 mol/l (0.1N) > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear colourless liquid Assay (potentiometric) ..... 0.0998 - 0.1002 mol/L

Code	Size	Packaging	Notes
528573	5 l	Kubidos	
528571	10 l	Kubidos	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**

### Hydrochloric acid 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 723.....e

Code	Size	Packaging	Notes
404197000	1 l	Plastic bottle	Certified with NIST traceability
404192000	5 l	Kubidos	Certified with NIST traceability
404191000	10 l	Kubidos	Certified with NIST traceability
404195000	10 l	Plastic tank	Certified with NIST traceability

**3.646 g of HCl. Volumetric solution ready-to-use: 0.1N**

### Hydrochloric acid 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404211		Plastic ampoule	Volume: 55 ml

**3,646 g of HCl. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**

### Hydrochloric acid 0.1 mol/l (0.1N) > ERBApharm - Prepared from raw material according Ph.Eur. - USP

ERBApharm

Clear, colourless liquid ..... Conform Assay (Ph.Eur)..... 0.095 - 0.105 N Residual solvents (Current ICH)..... Conform  
Identification (Ph.Eur)..... Conform Origine (BSE-TSE)..... Conform

Code	Size	Packaging	Notes
528661	1 l	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

### Hydrochloric acid 0.1 mol/l (0.1N) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Clear, colourless liquid ..... Conform Assay (Ph.Eur)..... 0.095 - 0.105 N Residual solvents (Current ICH)..... Conform  
Identification (Ph.Eur)..... Conform Origine (BSE-TSE)..... Conform

Code	Size	Packaging	Notes
528662	5 l	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Hydrochloric acid 0.1 mol/l (0.1N) in ethanol**

• Acido cloridrico 0.1 mol/l (0.1N) in etanolo • Acide chlorhydrique 0.1 mol/l (0.1N) dans l'éthanol • Acido clorhidrico 0.1 mol/l (0.1N) en etanol  
• Salzsäure 0.1 mol / l (0.1 N) in Ethanol

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225  
P210-P241-P280-P303+P361+P353-P403+P235-P501a

**Hydrochloric acid 0.1 mol/l (0.1N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613008800	1 l	Glass bottle	Ref Ph.Eur 3008800

**Hydrochloric acid 0.1 mol/l (0.1N) in propanol-2**

• Acido cloridrico 0.1 mol/l (0.1N) in isopropanolo • Acide chlorhydrique 0.1 mol/l (0.1N) dans propanol-2 • Acido clorhidrico 0.1 mol/l (0.1N) en propan-2-ol  
• Salzsäure 0.1 mol / l (0.1 N) in Propanol-2

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1219  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336  
P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233

**Hydrochloric acid 0.1 mol/l (0.1N) in propanol-2 > RPE - For analysis****RPE**

Description ..... Clear liquid Color ..... ≤ 10 APHA Assay ..... 0,095 ÷ 0.105 N

Code	Size	Packaging	Notes
526536	1 l	Plastic bottle	

**Hydrochloric acid 0.0714 mol/l (N/14)**

• Acido cloridrico 0.0714 mol/l (N/14) • Acide chlorhydrique 0.0714 mol/l (N/14) • Acido clorhidrico 0.0714 mol/l (N/14) • Salzsäure 0.0714 mol/l (N/14)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

**Hydrochloric acid 0.0714 mol/l (N/14) > RS - For agroalimentary analysis****RS**

Description ..... Clear colourless liquid Assay ..... 0.0710 ÷ 0.0718 N

Code	Size	Packaging	Notes
526533	10 l	Kubidos	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**

**Hydrochloric acid 0.05 mol/l (0.05N)**

• Acido cloridrico 0.05 mol/l (0.05N) • Acide chlorhydrique 0.05 mol/l (0.05N) • Acido clorhidrico 0.05 mol/l (0.05N) • Salzsäure 0.05 mol / l (0.05 N)

HCl  
Molecular Weight: 36.46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

**Hydrochloric acid 0.05 mol/l (0.05N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.0499 - 0.0501 N

Code	Size	Packaging	Notes
PS0587/15	1 l	Plastic bottle	



## Hydrochloric acid 0.04 mol/l (0.04N)

• Acido cloridrico 0.04 mol/l (0.04N) • Acide chlorhydrique 0.04 mol/l (0.04N) • Acido clorhidrico 0.04 mol/l (0.04N) • Salzsäure 0.04 mol/l (0.04N)

HCl  
Molecular Weight: 36.46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 0.04 mol/l (0.04N) > RS - For analysis

RS

Assay (potentiometry) ..... 0.03992 - 0.04008 N

Code	Size	Packaging	Notes
PS0206/41	10 l	Plastic tank	



## Hydrochloric acid 0.02 mol/l (0.02N)

• Acido cloridrico 0.02 mol/l (0.02N) • Acide chlorhydrique 0.02 mol/l (0.02N) • Acido clorhidrico 0.02 mol/l (0.02N) • Salzsäure 0.02 mol/l (0.02N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

### Hydrochloric acid 0.02 mol/l (0.02N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (acidimetric) ..... 0.01996 ÷ 0.02004 mol/L

Code	Size	Packaging	Notes
PS0342/15	1 l	Plastic bottle	
526537	5 l	Plastic tank	



## Hydrochloric acid 0.01 mol/l (0.01N)

• Acido cloridrico 0.01 mol/l (0.01N) • Acide chlorhydrique 0.01 mol/l (0.01N) • Acido clorhidrico 0.01 mol/l (0.01N) • Salzsäure 0.01 mol/l (0.01N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

### Hydrochloric acid 0.01 mol/l (0.01N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.00998 - 0.01002 N NIST 84.....

Code	Size	Packaging	Notes
404267	1 l	Plastic bottle	Certified with NIST traceability

**Provided with a Certificate of analysis with references on the analytical method**

### Hydrochloric acid 0.01 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404251		Plastic ampoule	Volume: 55 ml

**0,3646 g HCl. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**

**Hydrochloric acid, dilute**

• Acido cloridrico diluito • Acide chlorhydrique dilu e • Acido clorh idrico diluido • Salzs ure verd nnen

HCl	HEU210
Molecular Weight: 36,46	
CAS: 7647-01-0	
EEC-N: 231-595-7	

**Hydrochloric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 2.2.2**

RS

Code	Size	Packaging	Notes
612202400	1 l	Plastic bottle	Dilution matrix HCl 10g/L

**Hydrochloric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611043503	1 l	Plastic bottle	Ref Ph.Eur 1043503
611043504	1 l	Plastic bottle	Hydrochloric acid, dilute R1 Ref Ph.Eur 1043504

**Hydrochloric acid, brominated**

• Acido cloridrico bromurato • Acide chlorhydrique brom e • Acido clorh idrico brominado • Salzs ure, bromiert

HCl	<b>Classification transport</b>		<b>Danger</b>
Molecular Weight: 36,46	ONU: 2922		H290-H314-H335
CAS: 7647-01-0	Transport Hazard class: 8		P280-P301+P330+P331-P303+P361+P353-
EEC-N: 231-595-7	Packing group I		P304+P340-P310a-P305+P351+P338-P403+P233

**Hydrochloric acid, brominated > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611043507	1 l	Glass bottle	Ref Ph.Eur 1043507

**Hydrochloric acid-d 20%**

• Acido cloridrico-d 20% • Acide chlorhydrique-d 20% • Acido clorh idrico-d 20% • Deuteriumchlorid 20%

Synonym:

- Deuterium chloride
- Deutero-hydrochloric acid

DCI	<b>Classification transport</b>
Molecular Weight: 37,47	ONU: 1789
CAS: 7698-05-7	Transport Hazard class: 8
EEC-N: 231-715-8	Packing group II

**Hydrochloric acid-d 20% > RS - For NMR - min 99.95%**

RS

Code	Size	Packaging	Notes
P5685	25 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis****Hydrochloric acid-d 1 mol/l**

• Acido cloridrico-d 1 mol/l • Acide chlorhydrique-d 1 mol/l • Acido clorh idrico-d 1 mol/l • Deuteriumchlorid 1 mol/l

DCI	<b>Classification transport</b>		<b>Warning</b>
Molecular Weight: 37,47	ONU: 1789		H290-H315-H319-H335
CAS: 7698-05-7	Transport Hazard class: 8		P261-P271-P304+P340-P305+P351+P338-
EEC-N: 231-715-8	Packing group III		P332+P313-P403+P233

**Hydrochloric acid-d 1 mol/l > RS - For NMR - min 99.8%**

RS

Code	Size	Packaging	Notes
P5695	25 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**



## Hydrofluoric acid 50%

• Acido fluoridrico 50% • Acide fluorhydrique 50% • Acido fluorhídrico 50% • Fluorwasserstoff 50%

HF  
Molecular Weight: 20  
CAS: 7664-39-3

**Classification transport**  
ONU: 1790  
Transport Hazard class: LQ



**Danger**  
H300-H310-H330-H314  
P280-P284-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P403+P233

### Hydrofluoric acid 50% > RS - RSE - For electronic use

RS

Description .....	Clear liquid	Sulphate .....	≤1 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.05 ppm
Colour (APHA) .....	≤10	Sulphite .....	≤2 ppm	Cr .....	≤0.01 ppm	Pb .....	≤0.02 ppm
Identification .....	Positive	Ag .....	≤0.02 ppm	Cu .....	≤0.01 ppm	Pt .....	≤0.02 ppm
Assay (acidimetric) .....	49.0 ÷ 51.0 %	Al .....	≤0.05 ppm	Fe .....	≤0.1 ppm	Sb .....	≤0.01 ppm
Density at 20°C .....	~ 1.17	As .....	≤0.03 ppm	Ga .....	≤0.02 ppm	Sn .....	≤0.02 ppm
Hydrofluosilicic acid .....	≤20 ppm	Au .....	≤0.02 ppm	In .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Chloride .....	≤1 ppm	B .....	≤0.02 ppm	K .....	≤0.1 ppm	Ta .....	≤0.1 ppm
Phosphate .....	≤0.5 ppm	Ba .....	≤0.1 ppm	Li .....	≤0.02 ppm	Ti .....	≤0.1 ppm
Heavy metals (Pb) .....	≤0.1 ppm	Be .....	≤0.01 ppm	Mg .....	≤0.1 ppm	Tl .....	≤0.02 ppm
Nitrate .....	≤3 ppm	Bi .....	≤0.02 ppm	Mn .....	≤0.01 ppm	V .....	≤0.01 ppm
Residue on ignition .....	≤5 ppm	Ca .....	≤0.1 ppm	Mo .....	≤0.01 ppm	Zn .....	≤0.05 ppm
Subst. reducing KMnO4 .....	≤4 ppm	Cd .....	≤0.01 ppm	Na .....	≤0.2 ppm	Zr .....	≤0.01 ppm

Code	Size	Packaging	Notes
405737	1 l	Plastic bottle	

Considered as toxic gas

### Hydrofluoric acid 50% > RS - MOS - For electronic use

RS

Description .....	Clear colourless liquid	Sulphate .....	≤1 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.01 ppm
Colour (APHA) .....	≤10	Sulphite .....	≤2 ppm	Cr .....	≤0.01 ppm	Pb .....	≤0.02 ppm
Identification .....	Positive	Ag .....	≤0.02 ppm	Cu .....	≤0.01 ppm	Pt .....	≤0.02 ppm
Assay (acidimetric) .....	49.0 ÷ 51.0 %	Al .....	≤0.05 ppm	Fe .....	≤0.1 ppm	Sb .....	≤0.01 ppm
Density at 20° C .....	1.152 ÷ 1.158	As .....	≤0.03 ppm	Ga .....	≤0.02 ppm	Sn .....	≤0.02 ppm
Hydrofluosilicic acid .....	≤20 ppm	Au .....	≤0.02 ppm	In .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Chloride .....	≤1 ppm	B .....	≤0.02 ppm	K .....	≤0.1 ppm	Ta .....	≤0.1 ppm
Phosphate .....	≤0.5 ppm	Ba .....	≤0.1 ppm	Li .....	≤0.02 ppm	Ti .....	≤0.1 ppm
Heavy metals (Pb) .....	≤0.1 ppm	Be .....	≤0.01 ppm	Mg .....	≤0.1 ppm	Tl .....	≤0.02 ppm
Nitrate .....	≤3 ppm	Bi .....	≤0.02 ppm	Mn .....	≤0.01 ppm	V .....	≤0.01 ppm
Residue on ignition .....	≤5 ppm	Ca .....	≤0.1 ppm	Mo .....	≤0.01 ppm	Zn .....	≤0.05 ppm
Subst. reducing KMnO4 .....	≤4 ppm	Cd .....	≤0.01 ppm	Na .....	≤0.2 ppm	Zr .....	≤0.01 ppm

Code	Size	Packaging	Notes
405653	1 l	Plastic bottle	

Considered as toxic gas

### Hydrofluoric acid 50% > RPE - For analysis - ACS - ISO

RPE

Description .....	Clear liquid	Sulphate .....	≤2 ppm	Co .....	≤0.02 ppm	Ni .....	≤0.05 ppm
Colour (APHA) .....	≤10	Sulphite .....	≤2 ppm	Cr .....	≤0.05 ppm	Pb .....	≤0.2 ppm
Identification .....	Positive	Ag .....	≤0.02 ppm	Cu .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Density at 20° C .....	1.152 ÷ 1.158	Al .....	≤0.05 ppm	Fe .....	≤0.2 ppm	Ti .....	≤0.1 ppm
Hydrofluosilicic acid .....	≤20 ppm	As .....	≤0.05 ppm	K .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Chloride .....	≤1 ppm	Ba .....	≤0.1 ppm	Li .....	≤0.02 ppm	V .....	≤0.05 ppm
Phosphate .....	≤0.5 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.2 ppm	Zn .....	≤0.05 ppm
Heavy metals (Pb) .....	≤0.5 ppm	Bi .....	≤0.1 ppm	Mn .....	≤0.05 ppm	Zr .....	≤0.1 ppm
Residue on ignition .....	≤5 ppm	Ca .....	≤0.5 ppm	Mo .....	≤0.05 ppm	Assay (acidimetric) .....	49 ÷ 51 %
Subst. reducing KMnO4 .....	≤4 ppm	Cd .....	≤0.01 ppm	Na .....	≤0.5 ppm		

Code	Size	Packaging	Notes
405722	1 l	Plastic bottle	

Considered as toxic gas



## Hydrofluoric acid 47-51%

• Acido fluoridrico 47-51% • Acide fluorhydrique 47-51% • Acido fluorhídrico 47-51% • Fluorwasserstoff 47-51%

HF

Molecular Weight: 20  
CAS: 7664-39-3

### Classification transport

ONU: 1790  
Transport Hazard class: 8  
Packing group II



### Danger

H300-H310-H330-H314  
P280-P284-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P403+P233

### Hydrofluoric acid 47-51% > RS - Ultrapure - For trace analysis at ppt level

RS

Description	Clear liquid	Er	≤ 1 ppt	Mo	≤ 10 ppt	Te	≤ 1 ppt
Identification	Positive	Eu	≤ 1 ppt	Nd	≤ 1 ppt	Tb	≤ 1 ppt
Al	≤ 20 ppt	Gd	≤ 1 ppt	Ni	≤ 20 ppt	Ti	≤ 10 ppt
Sb	≤ 20 ppt	Ga	≤ 10 ppt	Nb	≤ 10 ppt	Th	≤ 1 ppt
As	≤ 50 ppt	Ge	≤ 10 ppt	Pd	≤ 20 ppt	Tm	≤ 1 ppt
Ba	≤ 10 ppt	Au	≤ 20 ppt	Pt	≤ 20 ppt	Sn	≤ 20 ppt
Be	≤ 10 ppt	Hf	≤ 10 ppt	K	≤ 10 ppt	Tl	≤ 20 ppt
Bi	≤ 10 ppt	Ho	≤ 1 ppt	Pr	≤ 1 ppt	W	≤ 20 ppt
B	≤ 100 ppt	In	≤ 1 ppt	Re	≤ 10 ppt	U	≤ 1 ppt
Cd	≤ 10 ppt	Fe	≤ 10 ppt	Rh	≤ 20 ppt	V	≤ 10 ppt
Ca	≤ 10 ppt	La	≤ 10 ppt	Rb	≤ 1 ppt	Yb	≤ 1 ppt
Ce	≤ 10 ppt	Pb	≤ 10 ppt	Ru	≤ 20 ppt	Y	≤ 1 ppt
Cs	≤ 10 ppt	Li	≤ 10 ppt	Sm	≤ 1 ppt	Total sulphur	≤ 100 ppb
Cr	≤ 10 ppt	Mg	≤ 1 ppt	Sc	≤ 10 ppt	Zr	≤ 10 ppt
Co	≤ 10 ppt	Lu	≤ 10 ppt	Ag	≤ 10 ppt	Assay	47 ÷ 51 %
Cu	≤ 10 ppt	Mn	≤ 10 ppt	Na	≤ 10 ppt		
Dy	≤ 1 ppt	Hg	≤ 50 ppt	Sr	≤ 10 ppt		

Code	Size	Packaging	Notes
405611	500 ml	Plastic bottle	

### Hydrofluoric acid 47-51% > RS - Superpure - For trace analysis at ppb level

RS

Description	Clear liquid	Cr	≤ 1 ppb	Mg	≤ 1 ppb	Ag	≤ 0.5 ppb
Identification	Positive	Co	≤ 0.1 ppb	Mn	≤ 0.1 ppb	Na	≤ 1 ppb
Colour (APHA)	≤ 10	Cu	≤ 0.5 ppb	Hg	≤ 1 ppb	Sr	≤ 0.1 ppb
Chloride	≤ 4 ppm	Dy	≤ 0.1 ppb	Mo	≤ 0.1 ppb	Te	≤ 0.1 ppb
Total phosphorus	≤ 0.05 ppm	Er	≤ 0.1 ppb	Nd	≤ 0.1 ppb	Tb	≤ 0.1 ppb
Total sulphur	≤ 0.1 ppm	Eu	≤ 0.1 ppb	Ni	≤ 0.5 ppb	Tl	≤ 0.1 ppb
Hydrofluosilicic acid	≤ 20 ppm	Gd	≤ 0.1 ppb	Nb	≤ 0.1 ppb	Th	≤ 0.1 ppb
Al	≤ 1 ppb	Ga	≤ 0.1 ppb	Pd	≤ 0.2 ppb	Tm	≤ 0.1 ppb
Sb	≤ 0.2 ppb	Ge	≤ 0.1 ppb	Pt	≤ 0.2 ppb	Sn	≤ 0.5 ppb
As	≤ 0.5 ppb	Au	≤ 0.2 ppb	K	≤ 1 ppb	Ti	≤ 1 ppb
Ba	≤ 0.1 ppb	Hf	≤ 0.1 ppb	Pr	≤ 0.1 ppb	W	≤ 0.5 ppb
Be	≤ 0.1 ppb	Ho	≤ 0.1 ppb	Re	≤ 0.1 ppb	U	≤ 0.1 ppb
Bi	≤ 0.1 ppb	In	≤ 0.1 ppb	Rh	≤ 0.1 ppb	V	≤ 0.1 ppb
B	≤ 1 ppb	Fe	≤ 1 ppb	Ru	≤ 0.1 ppb	Yb	≤ 0.1 ppb
Cd	≤ 0.1 ppb	La	≤ 0.1 ppb	Rb	≤ 0.1 ppb	Y	≤ 0.1 ppb
Ca	≤ 1 ppb	Pb	≤ 0.1 ppb	Sm	≤ 0.1 ppb	Zn	≤ 1 ppb
Ce	≤ 0.1 ppb	Li	≤ 0.1 ppb	Sc	≤ 0.1 ppb	Zr	≤ 0.1 ppb
Cs	≤ 0.1 ppb	Lu	≤ 0.1 ppb	Se	≤ 1 ppb	Assay	47 ÷ 51 %

Code	Size	Packaging	Notes
405716	500 ml	Plastic bottle	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z





## Hydrofluoric acid 39.5%

• Acido fluoridrico 39.5% • Acide fluorhydrique 39.5% • Acido fluorhidrico 39.5% • Fluorwasserstoff 39.5%

HF

Molecular Weight: 20  
CAS: 7664-39-3

### Classification transport

ONU: 1790  
Transport Hazard class: 8  
Packing group II



### Danger

H300-H310-H330-H314  
P280-P284-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P403+P233

### Hydrofluoric acid 39.5% > RPE - For analysis - ACS - ISO

RPE

Description .....	Clear colourless liquid	Sulphate .....	≤ 2 ppm	Co .....	≤ 0.02 ppm	Ni .....	≤ 0.02 ppm
Identification .....	Positive	Sulphite .....	≤ 2 ppm	Cr .....	≤ 0.05 ppm	Pb .....	≤ 0.05 ppm
Density at 20° C .....	1.127 ÷ 1.133	Ag .....	≤ 0.02 ppm	Cu .....	≤ 0.02 ppm	Sr .....	≤ 0.02 ppm
Assay (acidimetric) .....	39.1 ÷ 39.9 %	Al .....	≤ 0.05 ppm	Fe .....	≤ 0.2 ppm	Ti .....	≤ 0.1 ppm
Hydrofluosilicic acid .....	≤ 20 ppm	As .....	≤ 0.05 ppm	K .....	≤ 0.1 ppm	Tl .....	≤ 0.05 ppm
Chloride .....	≤ 1 ppm	Ba .....	≤ 0.1 ppm	Li .....	≤ 0.02 ppm	V .....	≤ 0.05 ppm
Phosphate .....	≤ 0.5 ppm	Be .....	≤ 0.02 ppm	Mg .....	≤ 0.2 ppm	Zn .....	≤ 0.05 ppm
Heavy metals (Pb) .....	≤ 0.5 ppm	Bi .....	≤ 0.1 ppm	Mn .....	≤ 0.05 ppm	Zr .....	≤ 0.1 ppm
Residue on ignition .....	≤ 5 ppm	Ca .....	≤ 0.5 ppm	Mo .....	≤ 0.05 ppm		
Subst. reducing KMnO4 .....	≤ 4 ppm	Cd .....	≤ 0.01 ppm	Na .....	≤ 0.5 ppm		

Code	Size	Packaging	Notes
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405761	1 l	Plastic bottle	
405765	5 l	Plastic bottle	

### Hydrofluoric acid 39.5% > RE - Pure

RE

Description .....	Clear colourless liquid	Residue on ignition .....	≤ 0.5 %	Fe .....	≤ 500 ppm
Identification .....	Positive	Sulphate .....	≤ 1 %	Assay (acidimetric) .....	38.0 ÷ 39.9 %

Code	Size	Packaging	Notes
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303731	1 l	Plastic bottle	
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## Hydrofluoric acid 0.1 mol/l

• Acido fluoridrico 0.1M • Acide fluorhydrique 0.1M • Acido fluorhidrico 0.1M • Fluorwasserstoff 0.1 mol/l

### Hydrofluoric acid 0.1 mol/l > RPE - For analysis

RPE

Code	Size	Packaging	Notes
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507410	1 l	Bottle	
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## Hydrofluoric acid diluted

• Acido fluoridrico diluito • Acide fluorhydrique diluë • Acido fluorhidrico diluido • Fluorwasserstoff Verdünnte

HF

CAS: 7664-39-3

### Classification transport

ONU: 2922  
Transport Hazard class: 8  
Packing group II



### Danger

H290-H301-H311-H314  
P280-P301+P310a-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338

### Hydrofluoric acid diluted > RPE - For analysis

RPE

Code	Size	Packaging	Notes
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405775	250 ml	Bottle	
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**Contains ~ 2% of hydrofluoric acid, ~ 5% hydrochloric acid**



## Hydrogen peroxide solution 40% w/v

• Perossido di idrogeno soluzione 40% m/v • Eau oxygénée solution 40% m/v • Hidrógeno peróxido solución 40% p/v • Wasserstoffperoxyd 40% m/v

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 34,01  
CAS: 7722-84-1

**Classification transport**  
ONU: 2014  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H302-H332-H315-H318-H335-H336  
P304+P340-P310a-P305+P351+P338-P330-  
P362+P364-P403+P233

### Hydrogen peroxide solution 40% w/v > RE - Pure - Stabilized

RE

Description ..... Clear colourless liquid    Identification ..... Positive    Density at 18° C ..... 1.127 ÷ 1.137    Assay (oxidimetric) ..... ≥39 % m/v

Code	Size	Packaging	Notes
307701	1 l	Plastic bottle	
307708	5 l	Plastic bottle	
307709	60 kg	Plastic tank	

154 volumes



## Hydrogen peroxide solution 35%

• Perossido di idrogeno soluzione 35% • Eau oxygénée solution 35% • Hidrógeno peróxido solución 35% • Wasserstoffperoxyd 35%

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 34,01  
CAS: 7722-84-1

**Classification transport**  
ONU: 2014  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H302-H332-H315-H318-H335-H336  
P304+P340-P310a-P305+P351+P338-P330-  
P362+P364-P403+P233

### Hydrogen peroxide solution 35% > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Description ..... Clear colourless liquid    Residue on ignition ..... ≤ 0.05 %    Chloride ..... ≤ 0.005 %    Assay ..... 34.5 - 36.0 %  
Identification ..... Positive    Free acid (H<sub>2</sub>SO<sub>4</sub>) ..... ≤ 0.025 %    Residue on evaporation ..... ≤ 0.10 %  
Appearance of solution ..... Passes test    Heavy metals (Pb) ..... ≤ 0.0002 %    Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
307742	2.5 l	Plastic bottle	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade  
130 volumes



## Hydrogen peroxide solution 30-32%

• Perossido di idrogeno soluzione 30-32% • Eau oxygénée solution 30-32% • Hidrógeno peróxido solución 30-32% • Wasserstoffperoxyd 30-32%

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 34,01  
CAS: 7722-84-1

**Classification transport**  
ONU: 2014  
Transport Hazard class: LQ



**Danger**  
H302-H332-H318  
P261-P264-P271-P304+P340-P310a-  
P305+P351+P338

### Hydrogen peroxide solution 30-32% > RS - Ultrapure - For trace analysis at ppt level

RS

Description ..... Clear colourless liquid	Er ..... ≤ 1 ppt	Mo ..... ≤ 10 ppt	Ta ..... ≤ 10 ppt
Identification ..... Positive	Eu ..... ≤ 1 ppt	Nd ..... ≤ 1 ppt	Te ..... ≤ 1 ppt
Al ..... ≤ 50 ppt	Gd ..... ≤ 1 ppt	Ni ..... ≤ 20 ppt	Tb ..... ≤ 1 ppt
Sb ..... ≤ 10 ppt	Ga ..... ≤ 10 ppt	Nb ..... ≤ 10 ppt	Ti ..... ≤ 1 ppt
As ..... ≤ 100 ppt	Ge ..... ≤ 10 ppt	Pd ..... ≤ 10 ppt	Th ..... ≤ 1 ppt
Ba ..... ≤ 10 ppt	Au ..... ≤ 10 ppt	K ..... ≤ 20 ppt	Tm ..... ≤ 1 ppt
Be ..... ≤ 10 ppt	Hf ..... ≤ 1 ppt	Pr ..... ≤ 1 ppt	Sn ..... ≤ 50 ppt
Bi ..... ≤ 10 ppt	Ho ..... ≤ 1 ppt	Re ..... ≤ 10 ppt	Tl ..... ≤ 20 ppt
B ..... ≤ 100 ppt	In ..... ≤ 1 ppt	Rh ..... ≤ 10 ppt	W ..... ≤ 20 ppt
Cd ..... ≤ 10 ppt	Fe ..... ≤ 20 ppt	Rb ..... ≤ 10 ppt	U ..... ≤ 1 ppt
Ca ..... ≤ 100 ppt	La ..... ≤ 10 ppt	Ru ..... ≤ 10 ppt	V ..... ≤ 10 ppt
Ce ..... ≤ 1 ppt	Pb ..... ≤ 10 ppt	Sm ..... ≤ 1 ppt	Yb ..... ≤ 1 ppt
Cs ..... ≤ 1 ppt	Li ..... ≤ 10 ppt	Sc ..... ≤ 10 ppt	Y ..... ≤ 1 ppt
Cr ..... ≤ 10 ppt	Lu ..... ≤ 1 ppt	Se ..... ≤ 100 ppt	Zn ..... ≤ 50 ppt
Co ..... ≤ 10 ppt	Mg ..... ≤ 20 ppt	Ag ..... ≤ 10 ppt	Zr ..... ≤ 10 ppt
Cu ..... ≤ 10 ppt	Mn ..... ≤ 10 ppt	Na ..... ≤ 50 ppt	Assay ..... 30 ÷ 32 % (p/p)
Dy ..... ≤ 1 ppt	Hg ..... ≤ 50 ppt	Sr ..... ≤ 10 ppt	

Code	Size	Packaging	Notes
412051	500 ml	Plastic bottle	



## Hydrogen peroxide solution 30%

• Perossido di idrogeno soluzione 30% • Eau oxygénée solution 30% • Hidrógeno peróxido solución 30% • Wasserstoffperoxyd 30%

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 34,01  
CAS: 7722-84-1

**Classification transport**  
ONU: 2014  
Transport Hazard class: LQ



**Danger**  
H302-H332-H318  
P261-P264-P271-P304+P340-P310a-  
P305+P351+P338

### Hydrogen peroxide solution 30% > RS - VLSI - For electronic use

RS

Code	Size	Packaging	Notes
527621	1 l	Bottle	
527620	2.5 l	Bottle	

**Stabilized; 110 volumes. For specifications, contact our customer service for a certificate of analysis**

### Hydrogen peroxide solution 30% > RS - RSE - For electronic use - Stabilized

RS

Description	Clear liquid	Chloride	≤0.5 ppm	Ca	≤0.05 ppm	Mn	≤0.01 ppm
Colour (APHA)	≤10	Phosphate	≤1 ppm	Cd	≤0.01 ppm	Na	≤0.05 ppm
Identification	Positive	Heavy metals (Pb)	≤1 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm
Density at 20° C	1.120 ÷ 1.124	Nitrate	≤2 ppm	Cr	≤0.01 ppm	Pb	≤0.01 ppm
Assay (oxidimetric)	29 ÷ 31 % m/m	Sulphate	≤1 ppm	Cu	≤0.01 ppm	Zn	≤0.02 ppm
Residue on evaporation	≤5 ppm	Al	≤0.1 ppm	Fe	≤0.03 ppm		
Acidity (H <sub>2</sub> SO <sub>4</sub> )	≤20 ppm	As	≤0.01 ppm	K	≤0.02 ppm		
Ammonium	≤1 ppm	Ba	≤0.01 ppm	Mg	≤0.02 ppm		

Code	Size	Packaging	Notes
412161	1 l	Plastic bottle	
412162	5 l	Plastic bottle	
412163	25 kg	Drum	

**110 volumes**

### Hydrogen peroxide solution 30% > RS - MOS - For electronic use - Stabilized

RS

Description	Clear liquid	Sulphate	≤2 ppm	Cr	≤0.01 ppm	Pb	≤0.02 ppm
Colour (APHA)	≤10	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.05 ppm
Identification	Positive	Al	≤0.1 ppm	Fe	≤0.1 ppm	Sb	≤0.01 ppm
Density at 18° C	1.120 ÷ 1.124	As	≤0.01 ppm	Ga	≤0.02 ppm	Sn	≤0.25 ppm
Assay (oxidimetric)	29.0 ÷ 31.0 %	Au	≤0.05 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Residue on evaporation	≤10 ppm	B	≤0.02 ppm	K	≤0.1 ppm	Ta	≤0.1 ppm
Acidity (H <sub>2</sub> SO <sub>4</sub> )	≤20 ppm	Ba	≤0.1 ppm	Li	≤0.01 ppm	Ti	≤0.05 ppm
Ammonium	≤1 ppm	Be	≤0.02 ppm	Mg	≤0.05 ppm	Tl	≤0.05 ppm
Chloride	≤0.5 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	V	≤0.05 ppm
Phosphate	≤1 ppm	Ca	≤0.2 ppm	Mo	≤0.05 ppm	Zn	≤0.05 ppm
Heavy metals (Pb)	≤0.2 ppm	Cd	≤0.01 ppm	Na	≤0.2 ppm	Zr	≤0.05 ppm
Nitrate	≤2 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm		

Code	Size	Packaging	Notes
412081	1 l	Plastic bottle	

**110 volumes**

### Hydrogen peroxide solution 30% > RS - For agroalimentary analysis

RS

Aspect ..... Conform Assay ..... 29.0 ÷ 31.0 %

Code	Size	Packaging	Notes
502044	5 l	Plastic tank	

**Stabilized; 110 volumes.**

### Hydrogen peroxide solution 30% > RS - For microanalysis - Stabilized

RS

Description ..... Clear colourless liquid Identification ..... Positive Density at 18° C ..... 1.120 ÷ 1.124

Code	Size	Packaging	Notes
412102	250 ml	Plastic bottle	

**110 volumes**

**Hydrogen peroxide solution 30% > RPE - For analysis - ACS - Reag.Ph.Eur. - Reag.USP - Stabilized****RPE**

Description .....	Clear liquid	Nitrate .....	≤2 ppm	Ca .....	≤0.2 ppm	Mn .....	≤0.01 ppm
Colour (APHA) .....	≤10	Sulphate .....	≤2 ppm	Cd .....	≤0.01 ppm	Na .....	≤0.5 ppm
Identification .....	Positive	Phosphate .....	≤2 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.02 ppm
Density at 20° C .....	1.10 ÷ 1.13	Ammonium .....	≤5 ppm	Cr .....	≤0.02 ppm	Pb .....	≤0.02 ppm
Organic stabilizers .....	≤500 ppm	Heavy metals (Pb) .....	≤1 ppm	Cu .....	≤0.01 ppm	Zn .....	≤0.1 ppm
Residue on evaporation .....	≤20 ppm	Al .....	≤0.5 ppm	Fe .....	≤0.1 ppm	Assay (oxidimetric) .....	29.0 ÷ 31.0 % m/m
Acidity .....	≤0.0006 meq/g	As .....	≤0.01 ppm	K .....	≤0.1 ppm		
Chloride .....	≤0.5 ppm	Ba .....	≤0.05 ppm	Mg .....	≤0.1 ppm		

Code	Size	Packaging	Notes
412077	175 ml	Plastic bottle	
412071	250 ml	Plastic bottle	
412072	1 l	Plastic bottle	
412074	25 kg	Plastic drum	
412076	200 kg	Plastic drum	

**Hydrogen peroxide solution 30% > ERBapharm - According to pharmacopoeia: Ph.Eur. - Stabilized****ERBapharm**

Description .....	Clear colourless liquid	Acidity .....	Conform Ph.Eur.	Organic stabilizers .....	≤ 500 ppm	Origin (BSE/TSE) .....	Synthesis
Identification .....	Positive	Non volat. substances .....	≤ 2 g/l	Assay (oxidimetric) .....	29.0 ÷ 31.0 %	Residual solvents (Current ICH) .....	Conform

Code	Size	Packaging	Notes
307685	25 kg	Drum	

**110 volumes. In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Hydrogen peroxide solution 6%**

• Perossido di idrogeno soluzione 6% • Eau oxygénée en solution à 6% • Hidrógeno peróxido solución 6% • Wasserstoffperoxyd 6%

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 34,01  
CAS: 7722-84-1

**Warning**

H319  
P264-P280i-P305+P351+P338-P337+P313

**Hydrogen peroxide solution 6% > RE - Pure****RE**

Description .....	Clear colourless liquid	Identification .....	Positive	Assay (oxidimetric) .....	5.75 ÷ 6.25 %
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Code	Size	Packaging	Notes
307641	10 l	Bottle	

**Stabilized; 20 volumes.****Hydrogen peroxide solution 3.5% w/v**

• Perossido di idrogeno soluzione 3.5% m/v • Eau oxygénée solution 3.5% m/v • Hidrógeno peróxido solución 3.5% p/v • Wasserstoffperoxyd 3.5% w/v

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 34,01  
CAS: 7722-84-1

HEU210

**Hydrogen peroxide solution 3.5% w/v > RE - Pure****RE**

Description .....	Clear colourless liquid	Residue on evaporation .....	≤0.2 %	Heavy metals (Pb) .....	≤5 ppm
Identification .....	Positive	Acidity (HCl) .....	≤360 ppm	As .....	≤1 ppm
Density at 20° C .....	~ 1.015	Fixative .....	≤500 ppm	Assay (oxidimetric) .....	3.45 ÷ 3.75 % m/v

Code	Size	Packaging	Notes
E307661	1 l	Bottle	

**Stabilized; 12 volumes.**



## Hydrogen peroxide solution 3%

• Perossido di idrogeno soluzione 3% • Eau oxygénée solution 3% • Hidrógeno peróxido solución 3% • Wasserstoffperoxyd 3%

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 34,01  
CAS: 7722-84-1

HEU210

### Hydrogen peroxide solution 3% > ERBApharm - According to pharmacopeia: Ph.Eur.-FU - Stabilized

ERBApharm

Description ..... Clear colourless liquid    Assay (oxidimetric) ..... 2.5 ÷ 3.5 %    Non volat.substances ..... Conform Ph.Eur.    Origin (BSE/TSE)..... Synthesis  
Identification ..... Positive    Acidity ..... Conform Ph.Eur.    Organic stabilizers ..... Conform Ph.Eur.

Code	Size	Packaging	Notes
307671	1 l	Plastic bottle	
307678	50 kg	Plastic tank	

10 volumes. In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade



## Hydroquinone

• Idrochinone • Hydroquinone • Hidroquinona • Hydrochinon

Synonym:

- 1,4-Benzenediol
- 1,4-Dihydroxybenzene

1,4-(OH)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>  
Molecular Weight: 110,11  
CAS: 123-31-9  
EEC-N: 204-617-8



**Danger**

H302-H318-H317-H341-H351-H400  
P261-P280-P305+P351+P338-P310a-P330-P362+P364

### Hydroquinone > RPE - For analysis

RPE

Description ..... White crystals    Melting point ..... 171 ÷ 174 ° C    Heavy metals (Pb) ..... ≤5 ppm    Fe ..... ≤5 ppm  
Identification ..... Positive    Loss on drying ..... ≤1 %    Residue on ignition ..... ≤200 ppm    Assay (oxidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
455325	250 g	Plastic bottle	

### Hydroquinone > RE - Pure

RE

Description ..... White crystals    Melting point ..... 170 ÷ 175 ° C    Resorcinol ..... ≤ 0.1 %    Assay (oxidimetric) ..... ≥ 99 %  
Identification (I.R.) ..... Conform    Heavy metals (Pb) ..... ≤ 10 ppm    Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
348126	500 g	Plastic bottle	
348128	1 kg	Plastic bottle	
348129	5 kg	Plastic tank	
348124	25 kg	Plastic bucket	



## p-Hydroxybenzaldehyde

• p-IdrossibenzAldeide • p-Hydroxybenzaldehyde • p-Hidroxibenzaldehído • p-Hydroxybenzaldehyd

HOC<sub>6</sub>H<sub>4</sub>CHO  
Molecular Weight: 122,12  
CAS: 123-08-0  
EEC-N: 204-599-1

### p-Hydroxybenzaldehyde > RE - Pure

RE

Description ..... White crystalline powder    Identification ..... Positive    Melting point ..... 114 ÷ 117 ° C    Assay (acidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
467254	100 g	Glass bottle	

Hydroxybenzene ► Phenol

2-Hydroxybenzoic acid ► Salicylic acid

**Hydroxylamine solution, alcoholic**

• Idrossilammina soluzione, alcolico • Hydroxylamine solution alcoolique • Hidroxilamina solución, alcohólico • Hydroxylaminlösung, alkoholisch

**Classification transport**ONU: 2733  
Transport Hazard class: 3  
Packing group II**Danger**H225-H314  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Hydroxylamine solution, alcoholic > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611044301	100 ml	Glass bottle	Ref Ph.Eur 1044301

**Hydroxylamine sulphate**

• Idrossilammina solfato • Hydroxylamine sulfate • Hidroxilamonio sulfato • Hydroxylaminsulfat

Synonym:

*Hydroxylammonium sulfate* $(\text{NH}_2\text{OH})_2 \cdot \text{H}_2\text{SO}_4$   
Molecular Weight: 164,14  
CAS: 10039-54-0  
EEC-N: 233-118-8**Classification transport**ONU: 2865  
Transport Hazard class: 8  
Packing group III**Warning**H290-H302-H312-H315-H319-H317-H351-  
H373-H400  
P280-P305+P351+P338-P308+P313-P330-  
P362+P364-P337+P313**Hydroxylamine sulphate > RPE - For analysis****RPE**Description ..... White crystals    Ammonium ..... ≤0.1 %    Heavy metals (Pb) ..... ≤10 ppm    Assay (oxidimetric) ..... ≥99 %  
Identification ..... Positive    Chloride ..... ≤10 ppm    Fe ..... ≤5 ppm

Code	Size	Packaging	Notes
455525	250 g	Plastic bottle	
455527	1 kg	Plastic bottle	
455523	25 kg	Plastic bucket	

4-Hydroxy-4-methyl-2-pentanone ▶ Diacetone alcohol

1-Hydroxynaphthalene ▶ 1-Naphthol

2-Hydroxynaphthalene ▶ 2-Naphthol

**8-Hydroxyquinoline**

• 8-Ossichinolina • 8-Hydroxyquinoléine • 8-Oxiquinoleína • 8-Hydroxychinolin

 $\text{HO}C_8\text{H}_3\text{N}:\text{CHCH}:\text{CH}$   
Molecular Weight: 145,16  
CAS: 148-24-3  
EEC-N: 205-711-1**Classification transport**ONU: 2811  
Transport Hazard class: 6.1  
Packing group III**Danger**H301-H318-H317-H360D-H410-HA26  
P261-P280-P301+P310a-P330-P305+P351+P338-  
P308+P313**8-Hydroxyquinoline > RPE - For analysis****RPE**Description ..... Off white to light brown crystal    Melting point ..... 72.5 ÷ 74.5 °C    Sulphate ..... ≤200 ppm  
Identification ..... Positive    Residue on ignition ..... ≤2000 ppm    Assay ..... ≥99.5 %

Code	Size	Packaging	Notes
467353	50 g	Glass bottle	
467355	250 g	Plastic bottle	
467356	1 kg	Plastic bottle	

3-Hydroxytoluene ▶ m-Cresol





## Hypophosphorous acid 50%

• Acido ipofosforoso 50% • Acide hypophosphoreux 50% • Acido hipofosforoso 50% • Hypophosphorige Säure 50%



Molecular Weight: 66,04

CAS: 6303-21-5

EEC-N: 228-601-5

### Classification transport

ONU: 3264

Transport Hazard class: 8

Packing group III



### Danger

H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

## Hypophosphorous acid 50% > RPE - For analysis

RPE

Description .....	Yellow colourless liquid	Fe .....	≤50 ppm	Sulphate (SO <sub>4</sub> -) .....	≤ 500 mg/Kg
Arsenic (As) .....	≤ 0.05 mg/Kg	Lead (Pb) .....	≤ 0.5 mg/Kg	Assay (acidimetric) .....	≥49.5 %
Ca .....	≤ 30 ppm	Chloride (Cl-) .....	≤ 200 mg/Kg	Density at 20° C .....	~ 1.22

Code	Size	Packaging	Notes
406961	100 ml	Glass bottle	
406962	1 l	Glass bottle	

**Idrimer Erba Solution A**

• Idrimer Erba Soluzione A • Idrimer Erba Solution A • Idrimer Erba Solución A • Idrimer Erba Lösung A

**Idrimer Erba Solution A > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E455256	500 ml	Bottle	
E455257	1 l	Bottle	

**For water hardness. Titrant 1 ml = 1 mg CaCO<sub>3</sub>****Idrimer Erba Solution B**

• Idrimer Erba Soluzione B • Idrimer Erba Solution B • Idrimer Erba Solución B • Idrimer Erba Lösung B

**Warning**H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313**Idrimer Erba Solution B > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 9.8 ÷ 10.2

Code	Size	Packaging	Notes
E455266	500 ml	Bottle	
E455267	1 l	Bottle	

**For water hardness. Buffer pH 10****Idrimer Erba Indicator C**

• Idrimer Erba Indicatore C • Idrimer Erba Indicateur C • Idrimer Erba Indicador C • Idrimer Erba Anzeige C

**Idrimer Erba Indicator C > RPE - For analysis****RPE**

Description ..... Violet granular powder Identification ..... Positive

Code	Size	Packaging	Notes
E455271	10 g	Bottle	
E455274	100 g	Bottle	

**For water hardness****Imidazole**

• Imidazolo • Imidazole • Imidazol • Imidazol

Synonym:

- 1,3-Diaza-2,4-cyclopentadiene
- Glyoxaline

C<sub>3</sub>H<sub>4</sub>N<sub>2</sub>

Molecular Weight: 68,08

CAS: 288-32-4

EEC-N: 206-019-2

**Classification transport**

ONU: 3263

Transport Hazard class: 8

Packing group III

**Danger**

H302-H314-H360D-HA26

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Imidazole > RS - For microanalysis****RS**

Description ..... White crystals Identification ..... Positive Assay (GC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
445551	2 g	Glass bottle	
445552	25 g	Glass bottle	



## Immersion oil

• Olio d'immersione • Huile pour immersion • Aceite de inmersión • Immersionsöl



### Warning

H302-H411

P264-P270-P301+P312a-P330-P391-P501a

### Immersion oil > RS - For microscopy

RS

Description ..... Clear liquid Identification ..... Positive Density at 20° C ..... ≥1.0

Code	Size	Packaging	Notes
466782	100 ml	Glass bottle	
466783	1 l	Glass bottle	

contains benzylbenzoate



## Indicator for ammoniacal nitrogen solution

• Indicatore per azoto ammoniacale soluzione • Indicateur pour l'azote ammoniacal • Indicador para nitrógeno amoniacal solución  
• Indikator für ammoniakalischen Stickstoff

### Classification transport

ONU: 1170

Transport Hazard class: 3

Packing group III



### Warning

H226-H319

P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

### Indicator for ammoniacal nitrogen solution > RPE - For analysis

RPE

Description ..... Dark green liquid Identification ..... Positive pH range ..... 4.4 - 6.0

Code	Size	Packaging	Notes
E455651	250 ml	Glass bottle	



## Indicator for iodometry

• Indicatore per iodometria • Indicateur pour iodométrie • Indicador para iodometría • Indikator für die Jodometrie

EEC-N: 232-679-6

### Indicator for iodometry > RPE - For analysis

RPE

Description ..... White powder Identification ..... Positive

Code	Size	Packaging	Notes
455622	25 g	Glass bottle	
455621	250 g	Plastic bottle	



## Indicator papers

• Cartine indicatrici di pH • Papier indicateur de pH • Papel indicador de pH • pH-Indikatorpapier

### Indicator papers > RS - For pHmetry

RS

Code	Size	Packaging	Notes
435131000	1 roll	Dispenser	Trichromatic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH
435140000	1 roll	Dispenser	Monochromatic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH
435150000	1 roll	Dispenser	Monochromatic scale, pH range 1.0 - 14.0, Sensitivity 1,0/2,0 pH
435161000	1 roll	Dispenser	Monochromatic scale, pH range 3.8 - 5.8, Sensitivity 0.2/0.3 pH
435421000	1 roll	Dispenser	Monochromatic scale. pH range 0.5 - 5.5. Sensitivity 0.5 pH
435431000	1 roll	Dispenser	Monochromatic scale. pH range 4.0 - 7.0. Sensitivity 0.3 pH
435441000	1 roll	Dispenser	Monochromatic scale. pH range 6.4 - 8.0. Sensitivity 0.2 pH
435451000	1 roll	Dispenser	Monochromatic scale. pH range 7.2 - 9.7. Sensitivity 0.3 pH
435511000	1 roll	Dispenser	Monochromatic scale. pH range 5.5 - 9.0. Sensitivity 0.5 pH

## Indicator papers &gt; RS - High sensitivity-Integrated chromatic scale

RS

Code	Size	Packaging	Notes
435493000	100 stripes	Tube	pH range 1.0 - 2.8. Sensitivity 0.2/0.3
435494000	100 stripes	Tube	pH range 1.8 - 3.8. Sensitivity 0.2/0.3
435496000	100 stripes	Tube	pH range 3.8 - 5.5. Sensitivity 0.2/0.3
435498000	100 stripes	Tube	pH range 6.0 - 8.1. Sensitivity 0.2/0.3
435502000	100 stripes	Tube	pH range 8.0 - 9.7. Sensitivity 0.2/0.3

Strip 11 x 100 mm

## Indicator papers &gt; RS - Indelibles - with colour scale

RS

Code	Size	Packaging	Notes
435121000	100 stripes	Tube	pH range 0.0 - 14.0, Sensitivity 1.0
435642000	100 stripes	Tube	pH range 0.0 - 6.0. Sensitivity 0.5
435643000	100 stripes	Tube	pH range 2.0 - 9.0. Sensitivity 0.5
435644000	100 stripes	Tube	pH range 4.5 - 10.0. Sensitivity 0.5
435645000	100 stripes	Tube	pH range 7.0 - 14.0. Sensitivity 0.3/0.4

Strip 6 x 85 mm



## Indicator universal pH 0-5 hydroalcoholic solution

- Indicatore universale pH 0-5 soluzione idroalcolica • Indicateur universel pH 0-5 solution hydroalcoolique
- Indicador universal pH 0-5 solución hidroalcohólica • Universalanzeige pH-Wert 0-5 hydroalkoholische Lösung

## Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



## Danger

H225-H319  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P337+P313

## Indicator universal pH 0-5 hydroalcoholic solution &gt; RPE - For analysis

RPE

Description ..... Dark green liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
E455661	25 ml	Glass bottle	
E455662	500 ml	Glass bottle	

With chromatic scale



## Indicator universal pH 1-11 hydroalcoholic solution

- Indicatore universale pH 1-11 soluzione idroalcolica • Indicateur universel pH 1-11 solution hydroalcoolique
- Indicador universal pH 1-11 solución hidroalcohólica • Hydroalkoholische Universalanzeige für pH 1-11



## Warning

H319  
 P264-P280i-P305+P351+P338-P337+P313

## Indicator universal pH 1-11 hydroalcoholic solution &gt; RPE - For analysis

RPE

Description ..... Dark green liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
E455702	25 ml	Glass bottle	
E455706	500 ml	Plastic bottle	

With chromatic scale

**Indicator universal pH 1-11 water solution**

- Indicatore universale pH 1-11 soluzione in acqua • Indicateur universel pH 1-11 solution aqueuse • Indicador universal pH 1-11 solución en agua
- Universalindikator pH 1-11 wässrige Lösung

**Indicator universal pH 1-11 water solution > RPE - For analysis****RPE**

Description ..... Dark green liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
E455711	25 ml	Glass bottle	
E455712	500 ml	Glass bottle	

**With chromatic scale****Indigo carmine dried**

- Carminio indaco secco • Carmin d'indigo sec • Indigo Carmin secco • Indigo Carmine getrocknet

Synonym:  
Acid Blue 74

$C_{16}H_8N_2Na_2O_8S_2$   
Molecular Weight: 466,36  
CAS: 860-22-0  
EEC-N: 212-728-8

**Indigo carmine dried > RPE - For analysis - C.I. 73015****RPE**Description ..... Polvere blu viola Identification ..... Positive Colour change..... (blue - yellow) Assay .....  $\geq 85\%$ 

Code	Size	Packaging	Notes
434932	25 g	Glass bottle	

**Dye for microscopy (bacteriology histology). Indicator acid - base (pH 11.6 ÷ 14)****Indigo carmine solution**

- Carminio indaco soluzione • Carmin d'indigo solution • Indigo carmin solución • Indigo-Karmin-Lösung

Synonym:  
Acid Blue 74

$C_{16}H_8N_2Na_2O_8S_2$   
Molecular Weight: 466,36  
CAS: 860-22-0

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Indigo carmine solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611045601	1 l	Plastic bottle	Ref Ph.Eur 1045601

**Indium standard solution**

- Indio standard soluzione • Indium solution standard • Indio, solución patrón • Indium-Standardlösung

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III

**Indium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505662	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505665	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505663	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Indium standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503651	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503653	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503655	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503657	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Indium standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507743	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
507508	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Indole

• Indolo • Indole • Indol • indol

Synonym:

1H-Benzo[b]pyrrole

C<sub>8</sub>H<sub>7</sub>NHCH:CH  
Molecular Weight: 117,15  
CAS: 120-72-9  
EEC-N: 204-420-7

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H302-H311  
P264-P270-P280h-P301+P312a-P330-P501a

## Indole &gt; RPE - For analysis

RPE

Description ..... White powder or flakes    Identification ..... Positive    Melting point ..... 51 ÷ 53 ° C    Assay (spectrophotom.) ..... ≥99 %

Code	Size	Packaging	Notes
455801	10 g	Glass bottle	



## Inositol

• Inositolo • Inositol • Inositol • Inosit

Synonym:

1,2,3,4,5,6-Hexahydroxycyclohexane

CHOH(CHOH)<sub>4</sub>CHOH  
Molecular Weight: 180,16  
CAS: 87-89-8  
EEC-N: 201-781-2

## Inositol &gt; RPE - For analysis

RPE

Description ..... White crystalline powder    Chloride ..... ≤50 ppm    Calcium ..... Negative    Cd ..... ≤ 0.00082 %  
Identification ..... Positive    Heavy metals (Pb) ..... ≤25 ppm    Fe ..... ≤5 ppm    Hg ..... ≤ 0.00006 %  
Melting point ..... 224.0 ÷ 227.0 ° C    Residue on ignition ..... ≤0.1 %    Assay (gravimetric) ..... ≥98.0 %    Pb ..... ≤ 0.001 %  
Loss on drying ..... ≤0.5 %    Sulphate ..... ≤60 ppm    As ..... ≤ 0.0003 %

Code	Size	Packaging	Notes
455853	50 g	Glass bottle	

## Inositol &gt; RE - Pure

RE

Description ..... White powder    Loss on drying ..... ≤0.5 %    Chloride ..... ≤100 ppm    Sulphate ..... ≤150 ppm  
Identification ..... Positive    Sulphated ash ..... ≤0.1 %    Heavy metals (Pb) ..... ≤40 ppm    Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
348354	100 g	Plastic bottle	





## Inulin

• Inulina • Inuline • Inulina • Inulin

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
CAS: 9005-80-5  
EEC-N: 232-684-3

### Inulin > RPE - For analysis

RPE

Description ..... White crystalline powder (c= 2 in water) Chloride.....≤50 ppm Fe .....≤10 ppm  
Identification ..... Positive Loss on drying ..... ≤10 % Sulphate.....≤50 ppm  
Specific optical rotation on dry -32 ÷ -40 ° Residue on ignition..... ≤0.1 % Heavy metals (Pb).....≤10 ppm

Code	Size	Packaging	Notes
455901	10 g	Glass bottle	
455902	25 g	Glass bottle	
455903	100 g	Glass bottle	



## Iodide standard solution

• Ioduri standard soluzione • Iodure solution standard • Yoduro, solución patrón • Jodid-Standardlösung

### Iodide standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503261	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503263	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Iodine

• Iodio • Iode • Yodo • Jod

I<sub>2</sub>  
Molecular Weight: 253,8  
CAS: 7553-56-2  
EEC-N: 231-442-4

### Classification transport

ONU: 3495  
Transport Hazard class: 8  
Packing group III



### Danger

H302-H312-H332-H315-H319-H335-H372-H400  
P271-P304+P340-P305+P351+P338-P332+P313-  
P337+P313-P403+P233

### Iodine > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... Grey-violet crystals Chloride + bromide (Cl) ..... ≤ 0.025 % Assay (iodometric) ..... 99.8 ÷ 100.5 %  
Identification ..... Positive Residue on ignition ..... ≤ 0.05 %

Code	Size	Packaging	Notes
348454	100 g	Glass bottle	
348455	250 g	Glass bottle	
348457	1 kg	Glass bottle	
348451	5 kg	Metallic can	
348452	20 kg	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Iodine resublimed

• Iodio bisublimato • Iode bisublimé • Yodo bisublimado • Jod wieder sublimiert

I<sub>2</sub>  
Molecular Weight: 253,8  
CAS: 7553-56-2  
EEC-N: 231-442-4

**Classification transport**  
ONU: 3495  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H312-H332-H315-H319-H335-H372-H400  
P271-P304+P340-P305+P351+P338-P332+P313-  
P337+P313-P403+P233

### Iodine resublimed > RPE - For analysis

RPE

Description ..... Grey-violet crystals    Residue on evaporation ..... ≤100 ppm    Assay (oxidimetric) ..... ≥99.8 %  
Identification ..... Positive    Chlorine-Bromine ..... ≤100 ppm

Code	Size	Packaging	Notes
455959	100 g	Glass bottle	
455955	250 g	Glass bottle	
455957	1 kg	Glass bottle	
455954	25 kg	Metal drum	



## Iodine 0.5 mol/l (1N)

• Iodio 0.5 mol/l (1N) • Iode 0.5 mol/l (1N) • Yodo 0.5 mol/l (1N) • Jod 0.5 mol/l (1N)

I<sub>2</sub>  
Molecular Weight: 253,8  
CAS: 7553-56-2



**Warning**  
H373  
P260-P314-P501a

### Iodine 0.5 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613009400	1 l	Glass bottle	Ref Ph.Eur 3009400

**Storage: protected from light**

### Iodine 0.5 mol/l (1N) > RPE - For analysis

RPE

Description ..... Brown red liquid    Assay (potentiometry) ..... 0.99 - 1.01 N    NIST 136.....e

Code	Size	Packaging	Notes
456135000	500 ml	Glass bottle	Certified with NIST traceability
456137000	1 l	Glass bottle	Certified with NIST traceability

**126.9 g of I<sub>2</sub>. Volumetric solution ready-to-use**



## Iodine 0.05 mol/l (0.1N)

• Iodio 0.05 mol/l (0.1N) • Iode 0.05 mol/l (0.1N) • Yodo 0.05 mol/l (0.1N) • Jod 0.05 mol/l (0.1N)

I<sub>2</sub>  
Molecular Weight: 253,8  
CAS: 7553-56-2



**Warning**  
H373  
P260-P314-P501a

### Iodine 0.05 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613002700	1 l	Glass bottle	Ref Ph.Eur 3002700

**Storage: protected from light**

### Iodine 0.05 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Brown red liquid    Assay (potentiometry) ..... 0.0998 - 0.1002 N    NIST 136.....e

Code	Size	Packaging	Notes
456036000	500 ml	Glass bottle	Certified with NIST traceability
456037000	1 l	Glass bottle	Certified with NIST traceability

**12.69 g of I<sub>2</sub>. Volumetric solution ready-to-use**

## Iodine 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Brown red liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
456051		Glass ampoule	Volume: 60 ml

**12,69 g of I2. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**


## Iodine 0.01 mol/l (0.02N)

• Iodio 0.01 mol/l (0.02N) • Iode 0.01 mol/l (0.02N) • Yodo 0.01 mol/l (0.02N) • Jod 0.01 mol / l (0.02 N)

 $I_2$   
 Molecular Weight: 253,8  
 CAS: 7553-56-2

**Warning**

 H373  
 P260-P314-P501a

## Iodine 0.01 mol/l (0.02N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613002900	1 l	Glass bottle	Ref Ph.Eur 3002900

**Storage: protected from light**


## Iodine 0.005 mol/l (0.01N)

• Iodio 0.005 mol/l (0.01N) • Iode 0.005 mol/l (0.01N) • Yodo 0.005 mol/l (0.01N) • Jod 0.005 mol/l (0.01N)

 $I_2$   
 Molecular Weight: 253,8  
 CAS: 7553-56-2

**Danger**

 H315-H319-H372  
 P260-P264-P305+P351+P338-P332+P313-  
 P362+P364-P337+P313

## Iodine 0.005 mol/l (0.01N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Brown clear liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
456121		Glass ampoule	Volume: 60 ml

**1,269 g of I2. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**


## Iodine 10 ppm

• Iodio 10 ppm • Iode 10 ppm • Yodo 10 ppm • Jod 10 ppm

## Iodine 10 ppm > RS - For analysis according to Ph. Eur. Chap. 4.1.2

**RS**

Code	Size	Packaging	Notes
615003809	100 ml	Glass bottle	Concentrated solution: to dilute according to Ref Ph.Eur 5003800



## Iodine bromide solution

• Iodo bromuro soluzione • Iode bromure solution • Yodo bromuro solución • Jodbromidlösung

**Classification transport**

 ONU: 2734  
 Transport Hazard class: 8  
 Packing group II

**Danger**

 H226-H314  
 P210-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## Iodine bromide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611045901	1 l	Glass bottle	Ref Ph.Eur 1045901

**Storage: protected from light**



## Iodoform

• Iodoformio • Iodoforme • Yodoformo • Iodoform

Synonym:  
Triiodomethane

CHI<sub>3</sub>  
Molecular Weight: 393,73  
CAS: 75-47-8  
EEC-N: 200-874-5



### Warning

H302-H312-H332  
P261-P264-P271-P280h-P301+P312a-P304+P340

### Iodoform > RE - Pure

RE

Description .....Yellow crystalline powder    Loss on drying ..... ≤ 1.0 %    Assay (argentimetric) ..... ≥ 99.0 %    Acidity or alkalinity ..... Conform  
Identification ..... Positive    Sulphated ash ..... ≤ 0.2 %    Appearance of solution ..... Conform    Chloride ..... ≤ 50 ppm

Code	Size	Packaging	Notes
348554	100 g	Glass bottle	
348558	25 kg	Drum	

## Iodomethane ▶ Methyl iodide



## Iodoplatinate reagent

• Reattivo iodoplatinato • Réactif à l'iodoplatinate • Yodoplatinato reactivo • Iodoplatinat-Reagenz

### Iodoplatinate reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611046309	200 ml	Glass bottle	Ref Ph.Eur 1046300
611046300	1 l	Glass bottle	Ref Ph.Eur 1046300

**Storage: protected from light**

## IPA ▶ Propan-2-ol



## Iridium standard solution

• Iridio standard soluzione • Iridium solution standard • Iridio, solución patrón • Iridium-Standardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Warning

H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Iridium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505675	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Iron, powder

• Ferro, polvere • Fer, poudre • Hierro, polvo • Eisenpulver

Fe  
Molecular Weight: 55,85  
CAS: 7439-89-6  
EEC-N: 231-096-4

### Classification transport

ONU: 3089  
Transport Hazard class: 4.1  
Packing group III



### Warning

H228  
P210-P240-P241-P280-P370+P378a

### Iron, powder > RPE - For analysis

RPE

Description ..... Grey powder    Identification ..... Positive    Assay ..... ≥97 %

Code	Size	Packaging	Notes
451377	1 kg	Plastic bottle	
451373	25 kg	Plastic bucket	



## Iron, reduced by hydrogen

• Ferro, ridotto dall'idrogeno • Fer, réduit par l'hydrogène • Hierro, reducido para el hidrógeno • Eisen, reduziert durch Wasserstoff

Fe  
Molecular Weight: 55,85  
CAS: 7439-89-6  
EEC-N: 231-096-4

**Classification transport**  
ONU: 3089  
Transport Hazard class: 4.1  
Packing group III



**Warning**  
H228  
P210-P240-P241-P280-P370+P378a

### Iron, reduced by hydrogen > RPE - For analysis

RPE

Description ..... Grey powder      Ferric ion ..... Conform      H2SO4-insoluble matter ..... ≤0.5 %      Assay ..... ≥95 %  
Identification ..... Positive      Nitrogen compounds (N) ..... ≤50 ppm      Water solubility ..... ≤0.1 %

Code	Size	Packaging	Notes
451395	250 g	Glass bottle	
451397	1 kg	Plastic bottle	



## Iron standard solution

• Ferro standard soluzione • Fer solution standard • Hierro, solución patrón • Eisenstandardlösung

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Iron standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001601	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001601
615001602	100 ml	Plastic bottle	A 8 ppm solution: to dilute according to Ref Ph.Eur 5001602
615001603	100 ml	Plastic bottle	A 2 ppm solution: to dilute according to Ref Ph.Eur 5001603
615001605	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001605
615001606	100 ml	Plastic bottle	A 250 ppm solution: to dilute according to Ref Ph.Eur 5001606
615001609	100 ml	Plastic bottle	A 20 ppm solution: to dilute according to Ref Ph.Eur 5001600

### Iron standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505612	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505615	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505613	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Iron standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503581	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503583	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503585	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503587	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Iron standard solution > RS - Standard solution for AAS**

RS

Description ..... Yellow clear liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
504194	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507393	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497515	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497511	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Iron standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Yellow clear liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
451311		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

**Iron (II) ammonium sulfate hexahydrate**

• Ferro ammonio solfato oso esaidrato • Fer(II) ammonium sulfate hexahydraté  
• Hierro (II) amonio sulfato hexahidratado • Eisen (II) ammoniumsulfathexahydrat

Synonym:

• Ammonium iron(II) sulfate hexahydrate  
• Mohr's salt

$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 392,14  
CAS: 7783-85-9  
EEC-N: 233-151-8

**Warning**

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Iron (II) ammonium sulfate hexahydrate > RPE - For analysis - ACS**

RPE

Description ..... Green - azure crystals Ferric salt ..... ≤ 100 ppm Assay (oxidimetric) ..... 98.5 ÷ 101.5 % Na ..... ≤ 0.02 %  
Identification ..... Positive Cu ..... ≤ 30 ppm Water-insoluble matter ..... ≤ 100 ppm  
Phosphate ..... ≤ 30 ppm Mn ..... ≤ 100 ppm Mg ..... ≤ 20 ppm  
Ca ..... ≤ 50 ppm Zn ..... ≤ 30 ppm K ..... ≤ 20 ppm

Code	Size	Packaging	Notes
451453	100 g	Plastic bottle	
451451	500 g	Plastic bottle	
451457	1 kg	Plastic bottle	
451452	25 kg	Plastic bucket	

**Iron (II) ammonium sulfate hexahydrate > RE - Pure**

RE

Description ..... Green - azure crystals Identification ..... Positive Ferric ion ..... ≤ 0.01 % Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
344007	1 kg	Plastic bottle	
344008	5 kg	Plastic tank	
344003	25 kg	Plastic bucket	

**Iron (II) ammonium sulfate 0.12N**

• Ammonio ferrosolfato (II) 0.12N • Fer (II) ammonium sulfate 0.12N • Amonio Hierro (II) sulfato 0.12N • Eisen (II) ammoniumsulfat 0.12 N

$(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 392,14  
CAS: 7783-85-9

HEU210

**Iron (II) ammonium sulfate 0.12N > RS - For environmental analysis (COD determination)**

RS

Code	Size	Packaging	Notes
526761	1 l	Bottle	





## Iron (II) ammonium sulfate 0.1N

• Ferro ammonio solfato oso 0.1N • Fer(II) ammonium sulfate 0.1N • Amonio (II) hierro II sulfato 0.1 N  
• Eisen (II) ammoniumsulfat 0.1 N

Synonym:

• Ammonium iron(II) sulfate hexahydrate  
• Mohr's salt

$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 392,14  
CAS: 7783-85-9

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Warning**  
H290-H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Iron (II) ammonium sulfate 0.1N > RPE - For analysis

**RPE**

Assay (potentiometry) ..... 0.099 - 0.101 N

Code	Size	Packaging	Notes
P3250016	1 l	Glass bottle	



## Iron (II) chloride tetrahydrate

• Ferro cloruro oso tetraidrato • Fer (II) chlorure tétrahydraté • Hierro (II) cloruro tetrahidratado  
• Eisen(II)-chlorid-Tetrahydrat

Synonym:

*Ferrous chloride tetrahydrate*

$\text{FeCl}_2 \cdot 4\text{H}_2\text{O}$   
Molecular Weight: 198,81  
CAS: 13478-10-9  
EEC-N: 231-843-4

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H315-H318  
P264-P305+P351+P338-P310a-P330-P362+P364-  
P332+P313

### Iron (II) chloride tetrahydrate > RPE - For analysis

**RPE**

Description ..... Yellow-green crystals  
Subst. not ppt  $\text{NH}_4\text{OH}$  .....  $\leq 500$  ppm  
Cr .....  $\leq 20$  ppm  
Pb .....  $\leq 20$  ppm  
Identification ..... Positive  
Ferric salt .....  $\leq 0.2$  %  
Cu .....  $\leq 20$  ppm  
Zn .....  $\leq 20$  ppm  
Total nitrogen .....  $\leq 20$  ppm  
Sulphate .....  $\leq 50$  ppm  
Mn .....  $\leq 0.1$  %  
Assay (oxidimetric) .....  $\geq 99$  %  
Phosphate .....  $\leq 10$  ppm  
As .....  $\leq 1$  ppm  
Ni .....  $\leq 50$  ppm

Code	Size	Packaging	Notes
451574	100 g	Plastic bottle	
451575	500 g	Plastic bottle	
451576	1 kg	Plastic bottle	
451573	25 kg	Drum	



## Iron (II) sulfate heptahydrate

• Ferro solfato oso eptaidrato • Fer (II) sulfatate heptahydraté • Hierro (II) sulfato heptahidratado  
• Eisen(II) sulfat heptahydrat

Synonym:

*Ferrous sulfate heptahydrate*

$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$   
Molecular Weight: 278,05  
CAS: 7782-63-0  
EEC-N: 231-753-5



**Warning**  
H302-H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Iron (II) sulfate heptahydrate > RPE - For analysis - ACS

**RPE**

Description ..... Green - azure crystals  
Ca .....  $\leq 50$  ppm  
Mn .....  $\leq 0.05$  %  
K .....  $\leq 20$  ppm  
Identification ..... Positive  
Chloride .....  $\leq 10$  ppm  
Zn .....  $\leq 50$  ppm  
Na .....  $\leq 0.02$  %  
Ferric salt .....  $\leq 0.1$  %  
Phosphate .....  $\leq 10$  ppm  
Assay (oxidimetric) .....  $\geq 99.0$  %  
Water-insoluble matter .....  $\leq 100$  ppm  
Cu .....  $\leq 50$  ppm  
Mg .....  $\leq 20$  ppm

Code	Size	Packaging	Notes
451878	100 g	Plastic bottle	
451877	1 kg	Plastic bottle	
451879	5 kg	Plastic jar	

## Iron (II) sulfate heptahydrate > ERBApharm - According to pharmacopoeia: BP-DAB-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description .....	Green azure crystals	Chloride .....	≤ 200 ppm	Cu .....	≤ 50 ppm	Zn .....	≤ 50 ppm
Identification .....	Positive	Ferric ion .....	≤ 0.3 %	Mn .....	≤ 0.1 %	Assay (oxidimetric) .....	98.0 ÷ 105.0 %
pH solution 5% .....	3.0 ÷ 4.0	Cr .....	≤ 50 ppm	Ni .....	≤ 50 ppm		

Code	Size	Packaging	Notes
344957	1 kg	Plastic bottle	
344959	5 kg	Plastic tank	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade



## Iron (II) sulfate 0.1 mol/l

Synonym:

• Ferro solfato oso 0.1 mol/l • Fer (II) sulfate 0.1 mol/l • Hierro (II) sulfato 0.1 mol/l • Eisen (II) sulfat 0.1 mol / l *Ferrous sulfate 0.1 mol/l*

HEU210

## Iron (II) sulfate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001400	1 l	Plastic bottle	Ref Ph.Eur 3001400



## Iron (III) ammonium citrate green

Synonym:

• Ferro ammonio citrato verde • Fer (III) ammonium citrate vert • Hierro (III) y amonio citrato verde  
• Eisen (III) -ammoniumciträtgrün

• Ammonium iron(III) citrate  
• Ammonium ferric citrate

FeNH<sub>4</sub>(C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>)  
Molecular Weight: 482,19  
CAS: 1185-57-5  
EEC-N: 214-686-6



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

## Iron (III) ammonium citrate green > RE - Pure

RE

Description .....	Green-yellowish crystalline powder	Sulphate .....	≤ 0.5 %	Assay (oxidimetric) .....	14.0 ÷ 16.0 % Fe
Identification .....	Positive	As .....	≤ 4 ppm		

Code	Size	Packaging	Notes
343605	250 g	Plastic bottle	
343607	1 kg	Plastic bottle	
343606	5 kg	Plastic tank	



## Iron (III) ammonium citrate red

Synonym:

• Ferro ammonio citrato rosso • Fer (III) ammonium citrate rouge • Hierro (III) y amonio citrato rojo  
• Eisen (III) ammoniumciträt rot

• Ammonium iron(III) citrate  
• Ammonium ferric citrate

FeNH<sub>4</sub>(C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>)  
Molecular Weight: 482,19  
CAS: 1185-57-5  
EEC-N: 214-686-6



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

## Iron (III) ammonium citrate red > RE - Pure

RE

Description .....	Red-brown powder	Sulphate .....	≤ 0.6 %	Assay (oxidimetric) .....	20 ÷ 23 % Fe
Identification .....	Positive	As .....	≤ 5 ppm		

Code	Size	Packaging	Notes
343441	250 g	Plastic bottle	
343442	1 kg	Plastic bottle	
343443	5 kg	Plastic tank	



## Iron (III) ammonium oxalate

• Ferro ammonio ossalato ico • Fer (III) ammonium oxalate • Hierro (III) y amonio oxalato • Eisen (III) ammoniumoxalat

$(\text{NH}_4)_3\text{Fe}(\text{C}_2\text{O}_4)_3 \cdot 3\text{H}_2\text{O}$   
Molecular Weight: 428,08  
CAS: 15187-32-3

### Iron (III) ammonium oxalate > RE - Pure

RE

Description ..... Green crystals    pH 10% at 25° C ..... 4.0 ÷ 6.0    Sulphate ..... ≤50 ppm  
Identification ..... Positive    Chloride ..... ≤50 ppm    Assay (oxidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
343757	1 kg	Plastic bottle	



## Iron (III) ammonium sulfate dodecahydrate

• Ferro ammonio solfato ico dodecaidrato • Fer (III) ammonium sulfate dodécahydraté  
• Hierro (III) amonio sulfato dodecahidrato • Eisen (III) ammoniumsulfat dodecahydrat

Synonym:

• Ammonium iron(III) sulfate dodecahydrate  
• Ammonium ferric sulfate dodecahydrate

$\text{FeNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$   
Molecular Weight: 482,19  
CAS: 7783-83-7  
EEC-N: 616-517-5



### Warning

H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Iron (III) ammonium sulfate dodecahydrate > RPE - For analysis

RPE

Description Purple semitransparent crystals    Diluted HCl-ins. matter ..... ≤50 ppm    Cr ..... ≤100 ppm    Na ..... ≤150 ppm  
Identification ..... Positive    Nitrate ..... ≤50 ppm    Cu ..... ≤10 ppm    Ni ..... ≤20 ppm  
pH sol. 5% at 25° C ..... 1.75 ÷ 2.75    Subst. not ppt NH4OH ..... ≤0.1 %    K ..... ≤300 ppm    Pb ..... ≤30 ppm  
Chloride ..... ≤3 ppm    As ..... ≤2 ppm    Mg ..... ≤50 ppm    Zn ..... ≤20 ppm  
Phosphate ..... ≤20 ppm    Ca ..... ≤10 ppm    Mn ..... ≤100 ppm    Assay (oxidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
451503	100 g	Plastic bottle	
451505	500 g	Plastic bottle	
451507	1 kg	Plastic bottle	
451502	25 kg	Plastic bucket	
451504	50 kg	Plastic bucket	

### Iron (III) ammonium sulfate dodecahydrate > RE - Pure

RE

Description Cristalli semitrasparenti violacei    Assay (oxidimetric) ..... ≥ 98.0 %    Subst. not ppt NH4OH ..... ≤ 0.1 %    Zn ..... ≤ 50 ppm  
Identification ..... Positive    Chloride ..... ≤ 0.05 %    Cu ..... ≤ 20 ppm

Code	Size	Packaging	Notes
344107	1 kg	Plastic bottle	
344108	5 kg	Plastic tank	



## Iron (III) ammonium sulfate solution 33% in nitric acid

• Ferro ammonio solfato ico soluzione 33% in acido nitrico • Fer (III) ammonium sulfate 33% dans l'acide nitrique  
• Hierro (III) amonio sulfato solución 33% en acido nítrico • Eisen (III) ammoniumsulfatlösung 33% in Salpetersäure

### Classification transport

ONU: 2031  
Transport Hazard class: 8  
Packing group II



### Danger

H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Iron (III) ammonium sulfate solution 33% in nitric acid > RPE - For analysis

RPE

Description ..... Yellow - brown liquid    Identification ..... Positive    Assay ..... 32 ÷ 34 %

Code	Size	Packaging	Notes
E451521	500 ml	Glass bottle	

**Iron (III) ammonium sulfate 0.1 mol/l**

• Ferro ammonio solfato ico 0.1 mol/l • Fer (III) ammonium sulfate 0.1 mol/l • Hierro (III) amonio sulfato 0.1 mol/l • Eisen (III) ammoniumsulfat 0.1 mol / l

**Iron (III) ammonium sulfate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613001300	1 l	Plastic bottle	Ref Ph.Eur 3001300

**Iron (III) ammonium sulfate solution 100 g/l**

• Ferro ammonio solfato ico soluzione 100 g/l • Fer (III) ammonium sulfate 100 g/l • Hierro (III) amonio sulfato solución 100 g/l • Eisen (III) ammoniumsulfat 100 g / l

**Warning**H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313**Iron (III) ammonium sulfate solution 100 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611037703	100 ml	Plastic bottle	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702
611037702	1 l	Plastic bottle	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702

**Iron (III) chloride anhydrous sublimed**

• Ferro cloruro ico anidro sublimato • Fer (III) chlorure anhydre sublimé • Hierro (III) cloruro anhidro sublimado • Eisen(III) chlorid wasserfreies sublimiertes

Synonym:

*Ferric chloride*FeCl<sub>3</sub>  
Molecular Weight: 162,21  
CAS: 7705-08-0  
EEC-N: 231-729-4**Classification transport**ONU: 1773  
Transport Hazard class: 8  
Packing group III**Danger**H302-H315-H318  
P264-P305+P351+P338-P310a-P330-P362+P364-  
P332+P313**Iron (III) chloride anhydrous sublimed > RPE - For analysis****RPE**

Description .....	Black powder	As .....	≤ 20 ppm	Ni .....	≤ 500 ppm	Assay (oxidimetric) .....	≥ 98 %
Identification .....	Positive	Cu .....	≤ 0.1 %	Pb .....	≤ 200 ppm		
Water-insoluble matter .....	≤ 1 %	Mn .....	≤ 0.3 %	Zn .....	≤ 0.1 %		

Code	Size	Packaging	Notes
451695	250 g	Glass bottle	
451696	1 kg	Glass bottle	
451692	25 kg	Plastic bucket	

**Iron (III) chloride hexahydrate**

• Ferro cloruro ico esaidrato • Fer (III) chlorure hexahydraté • Hierro (III) cloruro hexahidratado • Eisen (III) chloridhexahydrat

Synonym:

*Ferric chloride hexahydrate*FeCl<sub>3</sub>·6H<sub>2</sub>O  
Molecular Weight: 270,3  
CAS: 10025-77-1  
EEC-N: 231-729-4**Classification transport**ONU: 3260  
Transport Hazard class: 8  
Packing group III**Danger**H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Iron (III) chloride hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	Brown pieces	Ferrous salt .....	≤ 20 ppm	Cu .....	≤ 30 ppm	K .....	≤ 50 ppm
Identification .....	Positive	Total phosphorus .....	≤ 100 ppm	Zn .....	≤ 30 ppm	Na .....	≤ 0.05 %
Ca .....	≤ 100 ppm	Nitrate .....	≤ 100 ppm	Assay (oxidimetric) .....	97.0 ÷ 102.0 %		
Water-insoluble matter .....	≤ 100 ppm	Sulphate .....	≤ 100 ppm	Mg .....	≤ 50 ppm		

Code	Size	Packaging	Notes
451625	100 g	Plastic bottle	
451626	500 g	Plastic bottle	
451627	1 kg	Plastic bottle	

## Iron (III) chloride hexahydrate > RE - Pure

**RE**

Description ..... Grani o blocco giallo scuro      Acidity (HCl) ..... ≤ 1.2 %      Heavy metals (Pb)..... ≤ 0.05 %      Assay (FeCl<sub>3</sub>·6H<sub>2</sub>O) ..... ≥ 99 %  
 Identification ..... Positive      Fe (+2) ..... ≤ 0.9 %      Assay (oxidimetric) ..... 59 ÷ 61 %

Code	Size	Packaging	Notes
344507	1 kg	Plastic bottle	
344508	2.5 kg	Plastic bottle	
344509	5 kg	Plastic tank	
344504	25 kg	Plastic bucket	



## Iron (III) chloride solution 4.5%

• Ferro cloruro ico soluzione 4.5% • Fer (III) chlorure solution 4.5% • Hierro (III) cloruro solución 4.5% • Eisen (III) chlorid 4.5%

### Classification transport

ONU: 3264  
 Transport Hazard class: 8  
 Packing group III



### Danger

H290-H318  
 P234-P280i-P305+P351+P338-P310a-P390-P406

## Iron (III) chloride solution 4.5% > RPE - For analysis

**RPE**

Description ..... Yellow clear liquid      Identification ..... Positive      Density at 20° C ..... 1.019 ÷ 1.025      Assay ..... 4.3 ÷ 4.7 % p/p

Code	Size	Packaging	Notes
E451653	1 l	Bottle	



## Iron chloride in solution

• Ferro cloruro in soluzione • Fer chlorure en solution • Hierro Cloruro en solución • Eisen chlorid in Lösung

FeCl<sub>3</sub>  
 Molecular Weight: 162,2  
 CAS: 7705-08-0

## Iron chloride in solution > RS - For analysis according to USP

**RS**

Code	Size	Packaging	Notes
616001048	100 ml	Plastic bottle	Ferric Chloride CS
616001047	500 ml	Plastic bottle	Ferric Chloride CS



## Iron (III) citrate

• Ferro citrato ico • Fer (III) citrate • Hierro (III) citrato • Eisen (III) citrat

### Synonym:

- Iron(III) citrate tribasic
- Ferric citrate

C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>·xFe  
 Molecular Weight: 262,96  
 CAS: 2338-05-8  
 EEC-N: 219-045-4

## Iron (III) citrate > RE - Pure

**RE**

Description ..... Red-brown crystals      Identification ..... Positive      Assay (iodometric) ..... 18 ÷ 20 % Fe

Code	Size	Packaging	Notes
344201	1 kg	Plastic bottle	
344202	5 kg	Plastic tank	

**Iron (III) oxide**

• Ferro ossido ico • fer (III) oxyde • Hierro (III) óxido • Eisen (III) oxid

Synonym:  
*Ferric oxide*Fe<sub>2</sub>O<sub>3</sub>  
Molecular Weight: 159,7  
CAS: 1309-37-1  
EEC-N: 215-168-2**Warning**H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233**Iron (III) oxide > RPE - For analysis****RPE**

Description .....	Red brown powder	Chloride.....	≤100 ppm	Cr.....	≤10 ppm	Na.....	≤200 ppm
Identification .....	Positive	Sulphate.....	≤100 ppm	Cu.....	≤50 ppm	Ni.....	≤50 ppm
Loss on drying .....	≤0.2 %	Ca.....	≤100 ppm	K.....	≤50 ppm	Pb.....	≤50 ppm
Diluted HCl-ins. matter .....	≤100 ppm	Cd.....	≤10 ppm	Mg.....	≤50 ppm	Zn.....	≤50 ppm
Total nitrogen .....	≤50 ppm	Co.....	≤50 ppm	Mn.....	≤50 ppm	Assay (oxidimetric) .....	≥99 %

Code	Size	Packaging	Notes
451824	100 g	Plastic bottle	
451826	500 g	Plastic bottle	

**Iron (III) nitrate nonahydrate**• Ferro nitrato ico nonaidrato • Fer(III) nitrato nonahidraté • Hierro (III) nitrato nonahidratado  
• Eisen (III) nitratonahydratSynonym:  
*Ferric nitrate nonahydrate*Fe(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O  
Molecular Weight: 404,04  
CAS: 7782-61-8  
EEC-N: 233-899-5**Classification transport**ONU: 1466  
Transport Hazard class: 5.1  
Packing group III**Danger**H272-H315-H319-H335  
P210-P261-P280-P304+P340-P305+P351+P338-  
P403+P233**Iron (III) nitrate nonahydrate > RPE - For analysis - ACS****RPE**

Description ...	Purplish crystals deliquescent	Subst. not ppt NH4OH .....	≤0.1 %	Chloride.....	≤5 ppm	Assay (oxidimetric) .....	98.0 ÷ 101.0 %
Identification .....	Positive	Water-insoluble matter .....	≤50 ppm	Sulphate.....	≤100 ppm		

Code	Size	Packaging	Notes
451723	100 g	Plastic bottle	
451725	500 g	Plastic bottle	
451727	1 kg	Plastic bottle	
451722	25 kg	Plastic bucket	

**Iron (III) sulfate**

• Ferro solfato ico • Fer (III) sulfate • Hierro (III) sulfato • Eisen (III) sulfat

Synonym:  
*Ferric sulfate hydrate*Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>·nH<sub>2</sub>O  
Molecular Weight: 399,88  
CAS: 15244-10-7  
EEC-N: 233-072-9**Danger**H302-H315-H318  
P264-P305+P351+P338-P310a-P330-P362+P364-  
P332+P313**Iron (III) sulfate > RPE - For analysis****RPE**

Description .....	Yellow-green powder	Chloride.....	≤ 0.1 %	Pb.....	≤20 ppm
Identification .....	Positive	As.....	≤3 ppm	Assay (oxidimetric) .....	20 ÷ 23 % Fe

Code	Size	Packaging	Notes
451925	100 g	Plastic bottle	
451926	500 g	Plastic bottle	
451927	1 kg	Plastic bottle	



	<b>Isoamyl acetate</b>	Synonym:
	• Isoamilo acetato • Isoamyle acétate • Isoamilo Acetato • Isoamylacetat	• Acetic acid 3-methylbutyl ester • Isopentyl acetate

C <sub>7</sub> H <sub>14</sub> O <sub>2</sub> Molecular Weight: 130 CAS: 123-92-2 EEC-N: 204-662-3	<b>Classification transport</b> ONU: 1104 Transport Hazard class: 3 Packing group III	 <b>Warning</b> H226-HEU066 P210-P241-P280-P303+P361+P353-P403+P235-P501a
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### Isoamyl acetate > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid	Alcohol miscibility..... Complete	Boiling point..... 140.5 ÷ 143.5 °C	Acidity (acetic acid)..... ≤50 ppm
Identification ..... Positive	Density at 20° C ..... 0.870 ÷ 0.874	Water (K.F.) ..... ≤500 ppm	Assay (GLC) ..... ≥99.0 %
Water miscibility..... Conform	Refractive index at 20°C. 1.3963 ÷ 1.4043	Residue on evaporation ..... ≤20 ppm	

Code	Size	Packaging	Notes
417781	250 ml	Glass bottle	
417782	1 l	Glass bottle	

### Isoamyl acetate > RE - Pure

**RE**

Description ..... Clear colourless liquid	Refractive index at 20°C..... 1.3943 ÷ 1.4063	Residue on evaporation ..... ≤100 ppm
Identification ..... Positive	Boiling point..... 140.5 ÷ 143.5 °C	Acidity (acetic acid)..... ≤0.1 %
Density at 20° C ..... 0.870 ÷ 0.874	Water (K.F.) ..... ≤0.5 %	Assay (GLC) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
313251	1 l	Glass bottle	
313252	15 kg	Metal drum	

### Isoamyl acetate > RE - Pure - For synthesis

**RE**

Appearance ..... Clear liquid	Density d20/4 ..... 0.871 - 0.874	Free acid (as CH <sub>3</sub> COOH)..... ≤ 0.02 %	Isoamyl alcohol ..... ≤ 0.6 %
Refractive index at 20°C..... 1.399 - 1.403	Colour ..... ≤ 15 Hazen	Assay (GC) ..... ≥ 99.0 %	

Code	Size	Packaging	Notes
P6120028	5 l	Plastic tank	

	<b>Isoamyl alcohol</b>	Synonym:
	• Alcole isoamilico • Alcool isoamylique • Alcohol isoamilico • Isoamylalkohol	3-Methyl-1-butanol

(CH <sub>2</sub> ) <sub>2</sub> CHCH <sub>2</sub> CH <sub>2</sub> OH Molecular Weight: 88,15 CAS: 123-51-3 EEC-N: 204-633-5	<b>Classification transport</b> ONU: 1105 Transport Hazard class: 3 Packing group III	   <b>Danger</b> H226-H332-H315-H318-H335 P210-P280-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P362+P364-P403+P233
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### Isoamyl alcohol > RS - For analysis according to Gerber

**RS**

Description ..... Clear colourless liquid	Identification ..... Positive	Density at 20° C ..... 0.810 ÷ 0.814
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Code	Size	Packaging	Notes
E413903	500 ml	Glass bottle	With indicator
413892	1 l	Glass bottle	Without indicator

### Isoamyl alcohol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... Clear colourless liquid	Refractive index at 20°C. 1.4023 ÷ 1.4083	Acidity ..... ≤0.002 meq/g	Carbonyl (HCOH) ..... ≤0.1 %
Identification ..... Positive	Boiling point..... 130.5 ÷ 132.5 °C	Acids and esters..... ≤0.2 %	Assay (GLC) ..... ≥98.5 %
Density at 20° C ..... 0.805 ÷ 0.813	Water (K.F.) ..... ≤0.5 %	Residue on evaporation ..... ≤30 ppm	

Code	Size	Packaging	Notes
413801	500 ml	Glass bottle	

**Isoamyl alcohol > RPE - For analysis****RPE**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4023 ÷ 1.4083	Acidity .....	≤0.002 meq/g	Carbonyl (HCOH) .....	≤0.1 %
Identification .....	Positive	Boiling point..... 130.5 ÷ 132.5 °C	Acids and esthers.....	≤0.2 %	Assay (GLC) .....	≥97 %
Density at 20° C .....	0.805 ÷ 0.813	Water (K.F) .....	Residue on evaporation .....	≤30 ppm		

Code	Size	Packaging	Notes
413832	1 l	Glass bottle	
413836	2.5 l	Glass bottle	
413833	22 kg	Metal drum	

**Isoamyl alcohol > RE - Pure****RE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.807 ÷ 0.817	Boiling point.....	132 ± 1.5 °C	Residue on evaporation .....	≤0.1 %	
Identification .....	Positive	Refractive index at 20°C. 1.4038 ÷ 1.4098	Water (K.F) .....	≤0.2 %	Acids and esthers.....	≤0.5 %		

Code	Size	Packaging	Notes
308001	1 l	Glass bottle	
308003	22 kg	Metal drum	

**Isobutanol**

• Isobutanolo • Isobutanol • Isobutanol • Isobutanol

Synonym:

*Isobutyl alcohol*

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>OH  
Molecular Weight: 74,12  
CAS: 78-83-1  
EEC-N: 201-148-0

**Classification transport**

ONU: 1212  
Transport Hazard class: 3  
Packing group III

**Danger**

H226-H315-H318-H335-H336  
P210-P280-P303+P361+P353-P304+P340-P310a-  
P305+P351+P338-P362+P364-P403+P233

**Isobutanol > RS - Anhydrous - For analysis****RS**

Refractive index at 20°C.....	1.394 - 1.398	Water content (K.F) .....	≤ 200 mg/Kg	Assay (GC) .....	≥ 99.5 %	Free acid (as CH <sub>3</sub> COOH).....	≤ 40 mg/Kg
Colour .....	≤ 10 Hazen	Non volatile residue .....	≤ 10 mg/Kg	1-butanol.....	≤ 0.4 %		

Code	Size	Packaging	Notes
P0531016	1 l	Glass bottle	

**Isobutanol > RPE - For analysis - ACS****RPE**

Description .....	Clear liquid	Density at 20° C .....	0.801 ÷ 0.803	Residue on evaporation .....	≤10 ppm	Indole base .....	≤0.1 ppm	
Colour (APHA) .....	≤10	Refractive index at 20°C. 1.3945 ÷ 1.3975	Boiling point.....	105 ÷ 109 °C	Carbonyl Compounds (CO).....	≤100 ppm	Assay (GLC) .....	≥99 %
Identification (I.R.).....	Positive	Water (K.F) .....	≤0.1 %	Acidity (acetic acid).....	≤100 ppm	Alcalinity (NH <sub>3</sub> ).....	≤10 ppm	
Water solubility.....	Conform							

Code	Size	Packaging	Notes
414211	1 l	Glass bottle	
414213	22 kg	Metal drum	
414214	200 l	Metal drum	

**Isobutanol > RE - Pure****RE**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.3930 ÷ 1.3990	Residue on evaporation .....	≤50 ppm	1-Butanol .....	≤ 0.4 %
Identification .....	Positive	Boiling point..... 105.0 ÷ 109.0 °C	Acidity (acetic acid).....	≤ 40 ppm	Assay (GLC) .....	≥99 %
Density at 20° C .....	0.800 ÷ 0.804	Water (K.F) .....	≤0.1 %			

Code	Size	Packaging	Notes
308301	1 l	Glass bottle	
308303	22 kg	Metal drum	

**Isobutyl acetate**  
 • Isobutile acetato • Isobutyle acétate • Isobutilo acetato • Isobutylacetat  
 Synonym: Acetic acid isobutyl ester

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>OCOCH<sub>3</sub>  
 Molecular Weight: 116,16  
 CAS: 110-19-0  
 EEC-N: 203-745-1

**Classification transport**  
 ONU: 1213  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-HEU066  
 P210-P241-P280-P303+P361+P353-P403+P235-P501a

**Isobutyl acetate > RPE - For analysis**

**RPE**

Description ..... Clear colourless liquid      Refractive index at 20°C..... 1.3851 ÷ 1.3951      Residue on evaporation ..... ≤100 ppm  
 Identification ..... Positive      Boiling point..... 114 ÷ 118.5 ° C      Acidity (acetic acid)..... ≤500 ppm  
 Density at 20° C ..... 0.867 ÷ 0.877      Water (K.F.) ..... ≤0.1 %      Assay (GLC) ..... ≥98.0 %

Code	Size	Packaging	Notes
431721	500 ml	Glass bottle	

**Isobutyl acetate > RE - Pure**

**RE**

Description ..... Clear colourless liquid      Refractive index at 20°C..... 1.3851 ÷ 1.3951      Residue on evaporation ..... ≤100 ppm  
 Identification ..... Positive      Boiling point..... 114 ÷ 118.5 ° C      Acidity (acetic acid)..... ≤500 ppm  
 Density at 20° C ..... 0.867 ÷ 0.877      Water (K.F.) ..... ≤0.2 %      Assay (GLC) ..... ≥97 %

Code	Size	Packaging	Notes
325631	1 l	Glass bottle	
325633	24 kg	Metal drum	

Isobutylacetone ► Methylisoamyl ketone

Isobutyl alcohol ► Isobutanol

**Isohexane**  
 • iso-Esano • Isohexane • Isohexano • Isohexan  
 Synonym: 2-Methylpentane

C<sub>6</sub>H<sub>14</sub>  
 Molecular Weight: 86,18  
 CAS: 107-83-5  
 EEC-N: 203-523-4

**Classification transport**  
 ONU: 1208  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H315-H336-H304-H411  
 P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

**Isohexane > RS - For HPLC - Isocratic Grade**

**RS**

Clear, colourless liq. appearance ..... Conform      Water content (K.F.) ..... ≤ 150 mg/Kg      Total C6H14 isomers (GC) ..... ≥ 80 %      UV transmittance at 220 nm ..... ≥ 80 %  
 Colour ..... ≤ 10 Apha      Non volatile residue ..... ≤ 5 mg/Kg      UV transmittance at 200 nm ..... ≥ 25 %      UV transmittance at 230 nm ..... ≥ 90 %  
 Identification (IR) ..... Conform      n-hexane ..... ≤ 6 %      UV transmittance at 210 nm ..... ≥ 55 %      UV transmittance at 250 nm ..... ≥ 98 %

Code	Size	Packaging	Notes
445152	1 l	Glass bottle	
445151	2.5 l	Glass bottle	

**Isohexane > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination**

**RS**

Appearance ..... Clear colourless liquid      n-hexane ..... ≤ 3 %      Ret. range 1,2,4-trichlorobenzene      GC-FID. Individual peak (C10-C40) .. ≤ 5 µg/l  
 Identification (IR) ..... Conform      Total C6H14 isomers (GC) ..... ≥ 95 %      to decachlorobiphenyle      Total sulphur (S) ..... ≤ 1 ppm  
 Water content (K.F.) ..... ≤ 50 mg/Kg      Non volatile residue ..... ≤ 2 mg/Kg      GC-FID. Hydrocarbon oil index... ≤ 0.05 mg/l  
 Colour ..... ≤ 5 Hazen      GC-ECD. Individual peak (Lindane) .. ≤ 3 ng/L      Retention time n-decane - n-tetracontane

Code	Size	Packaging	Notes
P6263216	1 l	Glass bottle	
P6263221	2.5 l	Glass bottle	

According to NF-EN-ISO9377-2 for hydrocarbon index determination

**Isohexane > RS - PESTIPUR - For pesticide analysis**

RS

Appearance .....	Clear colourless liquid	Identification (IR).....	Conform	Non volatile residue .....	≤ 5 mg/Kg	Ret. range 1,2,4-trichlorobenzene
Water content (K.F.) .....	≤ 100 mg/Kg	n-hexane .....	≤ 5 %	GC-ECD. Individual peak (Lindane) ..	≤ 3 ng/l	to decachlorobiphenyle
Colour .....	≤ 10 Hazen	Total C6H14 isomers (GC).....	≥ 80 %	Retention time trichlorobenzene to mirex		

Code	Size	Packaging	Notes
447131	1 l	Glass bottle	
447132	2.5 l	Glass bottle	

**For chlorinated compounds analysis****Isohexane > RPE - For analysis**

RPE

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 150 ppm	Total C6H14 isomers (GC).....	≥ 80 %	Total sulphur (S) .....	≤ 1 ppm
Colour .....	≤ 10 APHA	Residue on evaporation .....	≤ 10 ppm	n-Hexane.....	≤ 5 %		
Identification (I.R.).....	Conform	Aromatic compounds.....	≤ 50 ppm	Methylcyclopentane.....	≤ 16 %		

Code	Size	Packaging	Notes
447311	1 l	Glass bottle	
447312	2.5 l	Glass bottle	

**Isooctane**

• Isoottano • Isooctane • Isooctano • Isooctan

Synonym:

2,2,4-Trimethylpentane

$(\text{CH}_3)_3\text{CCH}_2\text{CH}(\text{CH}_3)_2$   
 Molecular Weight: 114,23  
 CAS: 540-84-1  
 EEC-N: 208-759-1

**Classification transport**  
 ONU: 1262  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H315-H336-H304-H410  
 P210-P241-P280-P303+P361+P353-P304+P340-  
 P403+P233

**Isooctane > RS - For HPLC - Isocratic Grade**

RS

Description .....	Clear liquid	Boiling point.....	98.2 ÷ 100.2 ° C	Acidity or alkalinity.....	≤ 0.0002 meq/g	at 260 nm .....	≥ 95 %
Colour .....	≤ 10 hazen	Not volatile residue.....	≤ 5 ppm	Assay (GLC) .....	≥ 99.5 %	at 215 nm .....	≥ 60 %
Density at 20° C .....	0.687 ÷ 0.697	Water (K.F.).....	≤ 50 ppm	U.V. Transmittance		at 270 nm .....	≥ 97 %
Identification .....	Positive	Free acids (CH3COOH).....	≤ 20 ppm	at 220 nm .....	≥ 70 %	at 240 nm .....	≥ 95 %
Refractive index at 20°C. 1.3885 ÷ 1.3945		Residue on evaporation .....	≤ 2 ppm	at 230 nm .....	≥ 85 %	Filtered at 0.2 µm	
Water .....	≤ 50 ppm	Aromatic compounds.....	≤ 5 ppm	at 205 nm .....	≥ 10 %		

Code	Size	Packaging	Notes
412441000	1 l	Glass bottle	
412442000	2.5 l	Glass bottle	

**Isooctane > RS - PESTIPUR - For pesticide analysis**

RS

Description .....	Clear colourless liquid	Water .....	≤ 50 ppm	GC-ECD (Lindano) .....	≤ 3 ng/l
Identification .....	Positive	Free acids (CH3COOH).....	≤ 20 ppm	GC-NPD (Ethylparation).....	≤ 3 ng/l
Colour .....	≤ 10 hazen	Not volatile residue.....	≤ 2 ppm	Assay (GLC) .....	≥ 99.5 %

Code	Size	Packaging	Notes
456791	1 l	Glass bottle	
456792	2.5 l	Glass bottle	

**Isooctane > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.**

RS

Description .....	Clear liquid	Boiling point.....	98 ÷ 100 ° C	Aromatic compounds.....	≤ 5 ppm	at 230 nm .....	≥ 85 %
Colour (APHA) .....	≤ 10	Acidity or alkalinity.....	≤ 0.0002 meq/g	U.V. Transmittance		UV Absorbance from 250 nm to 420 nm..	≤ 0.01 AU
Identification .....	Positive	Water (K.F.).....	≤ 50 ppm	at 255 nm .....	≥ 98 %		
Density at 20° C .....	0.691 ÷ 0.696	Residue on evaporation .....	≤ 5 ppm	at 210 nm .....	≥ 35 %		
Refractive index at 20°C. 1.3910 ÷ 1.3930		Assay (GLC) .....	≥ 99.5 %	at 220 nm .....	≥ 72 %		

Code	Size	Packaging	Notes
456754	1 l	Glass bottle	
456753	2.5 l	Glass bottle	

## Isooctane > RS - Standard for refractometry

**RS**

Description ..... Clear colourless liquid      Identification ..... Positive      Density at 20° C ..... 0.687 ÷ 0.697      Refractive index at 20°C. 1.3905 ÷ 1.3925

Code	Size	Packaging	Notes
456641	100 ml	Glass bottle	

## Isooctane > RPE - For analysis - ACS

**RPE**

Description ..... Clear colourless liquid      Density at 20°C ..... 0.691 - 0.696      Residue on evaporation ..... ≤ 0.001 %      Distillation range 95% distils between ..... 98 - 100 °C  
 Identification (I.R.) ..... Positive      Refractive index at 20°C ..... 1.391 - 1.393      Sulfur compounds (S) ..... ≤ 0.0005 %      Water (K.F.) ..... ≤ 100 ppm  
 Colour ..... ≤ 10 APHA      Water-soluble titrable acid ≤ 0.0003 meq/g      Assay (CPG) ..... ≥ 99.5 %      Aromatics ..... ≤ 10 ppm

Code	Size	Packaging	Notes
456734	1 l	Glass bottle	
456732	2.5 l	Glass bottle	

## Isooctane > RE - Pure - For synthesis

**RE**

Refractive index at 20°C ..... 1.389 - 1.393      Non volatile residue ..... ≤ 20 mg/Kg      Assay (GC) ..... ≥ 99 %      Identification (IR) ..... Conform  
 Water content (K.F.) ..... ≤ 150 mg/Kg      Colour ..... ≤ 10 Hazen      Aromatic compounds ..... ≤ 50 mg/Kg      Total sulphur (S) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
P0630240	10 l	Metal drum	
P0630268	200 l	Metal drum	

## Isooctane > RE - ASTM

**RE**

Description ..... Clear liquid      Boiling point ..... 98.2 ÷ 100.2 °C      Total sulphur ..... ≤ 10 ppm      Assay (GLC) ..... ≥ 99.5 %  
 Identification ..... Positive      Residue on evaporation ..... ≤ 20 ppm      Lead ..... ≤ 0.5 mg/l  
 Density at 20°C ..... 0.687 ÷ 0.697      Water (K.F.) ..... ≤ 150 ppm      n-heptane (ASTM) ..... ≤ 0.10 % v/v  
 Refractive index at 20°C. 1.3885 ÷ 1.3945      Aromatics ..... ≤ 50 ppm      Isooctane (ASTM) ..... ≥ 99.75 % v/v

Code	Size	Packaging	Notes
528963	2.5 l	Glass bottle	
528960	5 l	Plastic tank	
528961	25 l	Metal drum	
528962	200 l	Metal drum	

**Suitable for ASTM methods D2700 and D2699**



## Isopar G

• Isopar G • Isopar G • Isopar G • Isopar G

CAS: 90622-57-4  
 EEC-N: 292-459-0

**Classification transport**  
 ONU: 3295  
 Transport Hazard class: 3  
 Packing group III



**Danger**  
 H226-H304-H413  
 P210-P241-P280-P301+P310a-P303+P361+P353-P403+P235

## Isopar G > RS - RSE - For electronic use

**RS**

Appearance ..... Clear colourless liquid      Density at 15°C ..... 0.745 ÷ 0.756      Distillation range ..... 159 ÷ 176 °C      Aromatics ..... ≤ 0.01 %  
 Colour ..... ≤ 10 APHA      Refractive index at 20°C ..... 1.416 ÷ 1.418      Residue on evaporation ..... ≤ 10 ppm

Code	Size	Packaging	Notes
526151	2.5 l	Glass bottle	

**Isopentane**

• Isopentano • Isopentane • Isopentano • Isopentan

Synonym:  
2-Methylbutane(CH3)2CHCH2CH3  
Molecular Weight: 72,15  
CAS: 78-78-4  
EEC-N: 201-142-8**Classification transport**ONU: 1265  
Transport Hazard class: 3  
Packing group I**Danger**H224-H336-H304-H411-HEU066  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233**Isopentane > RS - Anhydrous - For analysis****RS**Refractive index at 20°C..... 1.352 - 1.356    Non volatile residue..... ≤ 10 mg/Kg    Colour ..... ≤ 10 Hazen    Identification (IR)..... Conform  
Water content (K.F.)..... ≤ 50 mg/Kg    Aromatic compounds..... ≤ 20 mg/Kg    Assay (GC)..... ≥ 95 %    Total sulphur (S)..... ≤ 2 ppm

Code	Size	Packaging	Notes
P0651016	1 l	Glass bottle	

**Isopentane > RPE - For analysis****RPE**Description ..... Clear colourless liquid    Refractive index at 20°C..... 1.352 ÷ 1.356    Aromatic compounds..... ≤ 20 ppm  
Colour ..... ≤ 10 APHA    Water (K.F.)..... ≤ 150 ppm    Assay (CPG)..... ≥ 95 %  
Identification (I.R.)..... Conform    Residue on evaporation ..... ≤ 10 ppm    Total sulphur (S)..... ≤ 2 ppm

Code	Size	Packaging	Notes
524391	1 l	Glass bottle	

**Isopentane > RE - Pure****RE**Description ..... Clear colourless liquid    Density at 20°C ..... 0.610 ÷ 0.630    Water (K.F.)..... ≤ 200 ppm    Total sulphur (S)..... ≤ 2 ppm  
Identification ..... Positive    Refractive index at 20°C. 1.3507 ÷ 1.3607    Residue on evaporation ..... ≤ 20 ppm    Assay ..... ≥ 95.0 %  
Colour ..... ≤ 10 APHA    Boiling point..... 27 ÷ 28.5 °C    Aromatics ..... ≤ 50 ppm

Code	Size	Packaging	Notes
528492	1 l	Glass bottle	
528491	5 l	Metal tank	

Isopentyl acetate ► Isoamyl acetate

Isopropanol ► Propan-2-ol

**Isopropyl acetate**

• Isopropile acetato • Isopropyle acétate • Isopropilo acetato • Isopropylacetat

Synonym:  
Acetic acid isopropyl esterCH3COOCH(CH3)2  
Molecular Weight: 102,13  
CAS: 108-21-4  
EEC-N: 203-561-1**Classification transport**ONU: 1220  
Transport Hazard class: 3  
Packing group II**Danger**H225-H319-H336-HEU066  
P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233**Isopropyl acetate > RPE - For analysis****RPE**Description ..... Clear liquid    Colour ..... ≤ 10 APHA    Free acid (as CH3COOH)..... ≤ 50 mg/Kg    Residue on evaporation ..... ≤ 10 ppm  
Water content (K.F.)..... ≤ 100 mg/Kg    Density at 20 °C ..... 0.869 ÷ 0.875    Boiling point..... 88 ÷ 89 ° C    Acidity (acetic acid)..... ≤ 50 ppm  
Identification ..... Positive    Assay (GC)..... ≥ 99 %    2-Propanol..... ≤ 1000 mg/Kg    Assay (GLC)..... ≥ 99.8 %  
Non volatile residue..... ≤ 10 mg/Kg    Refractive index at 20°C. 1.3760 ÷ 1.3780    Water (K.F.)..... ≤ 0.05 %

Code	Size	Packaging	Notes
474821	250 ml	Glass bottle	



## Isopropyl acetate > RE - Pure

**RE**

Refractive index at 20°C ..... 1.375 - 1.379      Water content (K.F.) ..... ≤ 800 mg/Kg      Colour ..... ≤ 10 Hazen      Free acid (as CH<sub>3</sub>COOH) ..... ≤ 50 mg/Kg  
 Appearance ..... Clear liquid      Non volatile residue ..... ≤ 20 mg/Kg      Assay (GC) ..... ≥ 99 %      2-Propanol ..... ≤ 1000 mg/Kg

Code	Size	Packaging	Notes
P0890228	5 l	Plastic tank	
P0890240	10 l	Metal tank	
P0890268	200 l	Metal drum	



## Isopropylamine

• Isopropilamina • Isopropylamine • Isopropilamina • Isopropylamin

Synonym:

2-Aminopropane

(CH<sub>3</sub>)<sub>2</sub>CHNH<sub>2</sub>  
 Molecular Weight: 59,11  
 CAS: 75-31-0  
 EEC-N: 200-860-9

### Classification transport

ONU: 1221  
 Transport Hazard class: 3  
 Packing group I



### Danger

H224-H301-H311-H331-H314-H335  
 P210-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P311a-P305+P351+P338-P361+P364-  
 P403+P233

## Isopropylamine > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Density at 20° C ..... 0.687 ÷ 0.693      Water (K.F.) ..... ≤ 0.1 %  
 Identification ..... Positive      Residue on evaporation ..... ≤ 50 ppm      Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
474756	1 l	Glass bottle	

## Isopropyl ether ► Diisopropylether



## Isopropyl myristate

• Miristato di isopropile • Myristate d'isopropyle • Isopropilo Miristato • Isopropylmyristat

Synonym:

• Isopropyl tetradecanoate  
 • Myristic acid isopropyl ester

C<sub>17</sub>H<sub>34</sub>O<sub>2</sub>  
 Molecular Weight: 2.704.507  
 CAS: 110-27-0  
 EEC-N: 203-751-4

## Isopropyl myristate > RS - For synthesis

**RS**

Clear, colourless liq. appearance ..... Conform      Dichloromethane miscibility ..... Miscible      Viscosity at 20°C ..... 5 - 6 mPa.s      Water content (K.F.) ..... ≤ 0.1 % m/m  
 Clear, colourless solution appearance ..... Conform      Identification B ..... Conform      Acid number ..... ≤ 1 mg KOH /g      Sulfuric ashes ..... ≤ 0.1 %  
 Conform      Refractive index at 20°C ..... 1.434 - 1.437      Iodine number ..... ≤ 1 g I<sub>2</sub>/100g  
 Alcohol miscibility ..... Miscible      Assay (GC) (C17H34O2) ..... ≥ 90 %      Saponification number 202 - 212 mg KOH/g

Code	Size	Packaging	Notes
P6070268	205 l	Metal drum	



## Kaolin washed

- Caolino lavato • Kaolin lavé • Caolín lavado • Gewaschenes Kaolin

Synonym:

- Halloysite nanoclay
- Kaolin clay

CAS: 1332-58-7  
EEC-N: 310-194-1

### Kaolin washed > RE - Pure

RE

Description ..... White hazel powder Identification ..... Positive Loss on drying ..... ≤ 1 % Loss on ignition ..... 11 - 13 %

Code	Size	Packaging	Notes
332573	5 kg	Plastic tank	
332574	25 kg	Plastic bucket	



## Karl Fischer reagent 1 component 2 mg H<sub>2</sub>O/ml

- Karl Fischer reattivo 2 mg H<sub>2</sub>O/ml monocomponente • Réactif de Karl Fischer 1 composant 2 mgH<sub>2</sub>O/ml • Karl Fischer reactivo 1 compuesto 2 mgH<sub>2</sub>O/ml
- Karl Fischer Reagenz 1 Komponente 2 mg H<sub>2</sub>O / ml



**Danger**

H315-H319-H360D-H373-HA26  
P280-P305+P351+P338-P308+P313-P362+P364-P332+P313-P337+P313

### Karl Fischer reagent 1 component 2 mg H<sub>2</sub>O/ml > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570021	1 l	Glass bottle	
570251	1 l	Glass bottle	New formulation. Not regulated for transport.

**Pyridine free. Suitable for general purpose or aldehydes and ketones - To be used with anhydrous solvents (methanol, chloroform)**



## Karl Fischer reagent 1 component 5 mg H<sub>2</sub>O/ml

- Karl Fischer reattivo 5 mg H<sub>2</sub>O/ml monocomponente • Réactif de Karl Fischer 1 composant 5 mg H<sub>2</sub>O/ml • Karl Fischer reactivo 1 compuesto 5 mgH<sub>2</sub>O/ml
- Karl-Fischer-Reagenz 1 Komponente 5 mg H<sub>2</sub>O / ml



**Danger**

H315-H319-H360D-H373-HA26  
P280-P305+P351+P338-P308+P313-P362+P364-P332+P313-P337+P313

### Karl Fischer reagent 1 component 5 mg H<sub>2</sub>O/ml > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570011	1 l	Glass bottle	
570241	1 l	Glass bottle	New formulation. Not regulated for transport.

**Pyridine free. Suitable for general purpose or aldehydes and ketones - To be used with anhydrous solvents (methanol, chloroform)**



## Karl Fischer titrant 1 component 5 mg H<sub>2</sub>O/ml for aldehydes and ketones

- Karl Fischer reattivo 5 mg H<sub>2</sub>O/ml monocomponente per aldeidi e chetoni • Karl Fischer titrant 1 composant 5 mg H<sub>2</sub>O/ml pour aldehydes et cétones
- Karl Fischer reactivo de valoración 1 compuesto 5 mg H<sub>2</sub>O/ml para aldehídos y cet
- Karl Fischer titriert 1 Komponente 5 mg H<sub>2</sub>O / ml für Aldehyde und Ketone

**Classification transport**

ONU: 1188  
Transport Hazard class: 3  
Packing group III



**Danger**

H226-H312-H315-H319-H360FD-H373-HA26  
P210-P241-P280-P303+P361+P353-P305+P351+P338-P308+P313

### Karl Fischer titrant 1 component 5 mg H<sub>2</sub>O/ml for aldehydes and ketones > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570081	1 l	Glass bottle	

**To be used with one component Karl Fischer solvent for aldehydes and ketones**



## Karl Fischer solvent for aldehydes and ketones one component

- Karl Fischer solvente monocomponente per aldeidi e chetoni • Karl Fischer solvant 1 composant pour aldéhydes et cétones
- Karl Fischer solvente 1 compuesto para aldehídos y cetonas • Karl Fischer Lösungsmittel 1 Komponente für Aldehyde und Ketone

**Classification transport**  
 ONU: 1993  
 Transport Hazard class: 3  
 Packing group III



**Danger**  
 H226-H302-H315-H319-H351-H360FD-H372-  
 HEU301-HA26  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P308+P313

### Karl Fischer solvent for aldehydes and ketones one component > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570041	1 l	Glass bottle	

**To be used with one component Karl Fischer reagents. For determination of water in aldehydes and ketones. Especially suitable for higher molecular weight products and mixtures containing non - polar constituents.**



## Karl Fischer solvent for oils one component

- Karl Fischer solvente monocomponente per olii • Karl Fischer solvant pour huiles 1 composant • Karl Fischer solvente para los aceites 1 compuesto
- Karl Fischer Lösungsmittel für 1 Komponentöle

**Classification transport**  
 ONU: 1993  
 Transport Hazard class: 3  
 Packing group III



**Danger**  
 H226-H302-H315-H318-H351-H360D-H370-H372-  
 HEU301-HA26  
 P210-P280-P303+P361+P353-P305+P351+P338-  
 P310a-P330-P362+P364

### Karl Fischer solvent for oils one component > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570031	1 l	Glass bottle	

**To be used with Karl Fischer reagents. For determination of water in oils or other non polar compounds.**



## Karl Fischer titrant 2 component 2 mg H<sub>2</sub>O/ml

- Karl Fischer titolante bicomponente 2 mg H<sub>2</sub>O/ml • Karl Fischer titrant 2 composants 2 mg H<sub>2</sub>O/ml
- Karl Fischer reactivo de valoración 2 compuestos 2 mg H<sub>2</sub>O/ml • Karl Fischer titriert 2 Komponenten 2 mg H<sub>2</sub>O / ml - nicht hygroskopisch

**Classification transport**  
 ONU: 1307  
 Transport Hazard class: 3  
 Packing group III



**Danger**  
 H226-H315-H319-H335-H373-H304  
 P210-P280-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P233

### Karl Fischer titrant 2 component 2 mg H<sub>2</sub>O/ml > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570061	1 l	Glass bottle	

**To be used with two component Karl Fischer solvent**



## Karl Fischer titrant 2 component 5 mg H<sub>2</sub>O/ml

- Karl Fischer titolante bicomponente 5 mg H<sub>2</sub>O/ml • Karl Fischer titrant 2 composants 5 mg H<sub>2</sub>O/ml
- Karl Fischer reactivo de valoración 2 compuestos 5 mg H<sub>2</sub>O/ml • Karl Fischer Titriermittel 2 Komponenten 5 mg H<sub>2</sub>O / ml - nicht hygroskopisch

**Classification transport**  
 ONU: 1307  
 Transport Hazard class: 3  
 Packing group III



**Danger**  
 H226-H315-H319-H335-H373-H304  
 P210-P280-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P233

### Karl Fischer titrant 2 component 5 mg H<sub>2</sub>O/ml > RS - ERBAqua - Volumetric titration

RS

Description .....Brown red liquid Identification ..... Positive Water equivalent ..... ≥ 5.0 mg/ml

Code	Size	Packaging	Notes
570051	1 l	Glass bottle	

**To be used with two component Karl Fischer solvent**



## Karl Fischer solvent 2 component

• Karl Fischer solvante bicomponente • Karl Fischer solvent 2 component • Karl Fischer solvante 2 componentes • Karl Fischer Lösungsmittel 2 Komponente

### Classification transport

ONU: 1230  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H301-H331-H315-H319-H370-H373  
P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233

### Karl Fischer solvent 2 component > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570071	1 l	Glass bottle	

To be used with a two component Karl Fischer titrant 570051 or 570061



## Karl Fischer solvent 2 component for aldehydes and ketones - Methanol free

• Karl Fischer solvante bicomponente per aldeidi e chetoni - senza metanolo • Karl Fischer solvant 2 composants pour aldéhydes et cétones - Sans méthanol  
• Karl Fischer solvante 2 compuestos para aldehídos y cetonas - sin metanol • Karl Fischer Solvent 2 Komponenten für Aldehyde und Ketone - Methanolfrei

### Classification transport

ONU: 1188  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H312-H315-H319-H360FD-HA26  
P210-P241-P280-P303+P361+P353-P305+P351+P338-P308+P313

### Karl Fischer solvent 2 component for aldehydes and ketones - Methanol free > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570091	1 l	Glass bottle	

To be used with a two component Karl Fischer titrant 570051 or 570061. For samples containing aldehydes and ketones



## Karl Fischer solvent for oils 2 component

• Karl Fischer solvante bicomponente per olii • Karl Fischer solvant pour huiles 2 composant • Karl Fischer solvante para los aceites 2 compuestos  
• Karl Fischer Lösungsmittel für 2 Komponentöle

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H302-H315-H318-H351-H361d-H370-H372-H373-HEU301  
P210-P280-P303+P361+P353-P305+P351+P338-P310a-P330-P362+P364

### Karl Fischer solvent for oils 2 component > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570101	1 l	Glass bottle	

To be used with a two component Karl Fischer titrant 570051 or 570061. For determination of water in oils or other non-polar compounds



## Karl Fischer 2 component buffered solvent

• Karl Fischer solvante bicomponente tamponato • Karl Fischer solvant 2 composant avec tampon • Karl Fischer solvante 2 compuestos con tampón  
• Karl Fischer Pufferlösung

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H319-H360D-H370-H373-HA26  
P210-P241-P280-P303+P361+P353-P305+P351+P338-P308+P313

### Karl Fischer 2 component buffered solvent > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570111	500 ml	Glass bottle	



## Karl Fischer anolyte solution

• Karl Fischer soluzione anolita • Karl Fischer anolyte solution • Karl Fischer catolito solución • Karl-Fischer-Anolytlösung - ohne Pyridin

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H302-H315-H319-H351-H360D-H370-H372-HA26-HEU301  
P210-P241-P280-P303+P361+P353-P305+P351+P338-P308+P313

## Karl Fischer anolyte solution > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570121	500 ml	Glass bottle	



## Karl Fischer anolyte solution for ketones and aldehydes - Methanol free

• Karl Fischer soluzione anolita per aldeidi e chetoni • Karl Fischer anolyte solution pour cétones et aldéhydes - Sans méthanol  
• Karl Fischer anolito solución para aldehídos y cetonas - libre de metanol • Karl-Fischer-Anolytlösung für Ketone und Aldehyde - ohne Methanol

### Classification transport

ONU: 1992  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H302-H331-H315-H319-H351-H360FD-H372-HEU301-HA26  
P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P308+P313-P330-P362+P364-P403+P233

## Karl Fischer anolyte solution for ketones and aldehydes - Methanol free > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570161	500 ml	Glass bottle	

For cells with diagrams



## Karl Fischer anolyte solution - CFC free

• Karl Fischer soluzione anolita • Karl Fischer anolyte solution - sans CFC • Karl Fischer anolito solución - sin CFC • Karl Fischer Anolyt-Lösung - ohne FCKW

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H315-H319-H360D-H370-H335-H373-HA26  
P210-P241-P280-P303+P361+P353-P305+P351+P338-P308+P313

## Karl Fischer anolyte solution - CFC free > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570141	500 ml	Glass bottle	

Pyridin and chlorocarbon free vessel solution. Suitable for nonpolar samples. For cells with diagrams



## Karl Fischer anolyte solution, oven

• Karl Fischer soluzione anolita, con fornello • Karl Fischer anolyte solution, pour four • Karl Fischer anolito solución para horno  
• Karl-Fischer-Anolytlösung für den Ofen

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H302-H315-H319-H360D-H370-H373-HA26  
P210-P241-P280-P303+P361+P353-P305+P351+P338-P308+P313

## Karl Fischer anolyte solution, oven > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570151	500 ml	Glass bottle	

Fritless reagent for use in conjunction with Karl Fischer oven-Pyridin and chlorocarbon free - For cells with & without diagrams



## Karl Fischer anolyte solution for oils

- Karl Fischer soluzione anolita per olii • Karl Fischer anolyte solution pour les huiles • Karl Fischer anolito solución para los aceites
- Karl-Fischer-Anolytlösung für Öle

### Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H315-H319-H370-H304  
 P210-P241-P280-P301+P310a-P303+P361+P353-P305+P351+P338

## Karl Fischer anolyte solution for oils > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570171	500 ml	Glass bottle	

*Suitable for oils and petroleum products. For cells with diaphragms*



## Karl Fischer catholyte solution

- Karl Fischer soluzione catolita • Karl Fischer catholyte solution • Karl Fischer catolito solución • Karl-Fischer-Katholyt-Lösung - Pyridinfrei

### Classification transport

ONU: 1188  
 Transport Hazard class: 3  
 Packing group III



### Danger

H226-H312-H315-H319-H360FD-H373-HA26  
 P210-P241-P280-P303+P361+P353-P305+P351+P338-P308+P313

## Karl Fischer catholyte solution > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570181	125 ml	Glass bottle	



## Karl Fischer catholyte solution for aldehydes and ketones

- Karl Fischer soluzione catolita per aldeidi e chetoni • Karl Fischer catholyte solution pour aldehydes et cétones
- Karl Fischer catolito solución para aldehídos y cetonas • Karl-Fischer-Katholytlösung

### Classification transport

ONU: 1188  
 Transport Hazard class: 3  
 Packing group III



### Danger

H226-H312-H315-H318-H360FD-H373-HA26  
 P210-P280-P303+P361+P353-P305+P351+P338-P310a-P362+P364

## Karl Fischer catholyte solution for aldehydes and ketones > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570191	125 ml	Glass bottle	

*For cells with diaphragms*



## Karl Fischer anolyte solution for cells with and without diaphragms

- Karl Fischer reagente per celle con e senza diaframma • Karl Fischer réactif pour la cellule avec et sans diaphragme
- Karl Fischer reactivo para la celda con y sin diafragma • Karl-Fischer-Reagenz für Zellen ohne Diaphragma

### Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H315-H319-H360FD-H370-H373-HA26  
 P210-P241-P280-P303+P361+P353-P305+P351+P338-P308+P313

## Karl Fischer anolyte solution for cells with and without diaphragms > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570131	500 ml	Glass bottle	

*Can also be used with titrators that contain diaphragms or ceramic frits*





## Karl Fischer water standard 10.0 mg/g

- Karl Fischer standard 10.0 mg/g acqua • Karl Fischer standard eau 10.0 mg/g • Karl Fischer agua estándar 10.0 mg/g
- Karl Fischer Standardwasser 10.0 mg / g

### Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group III



### Danger

H226-H315-H318-H351-H360D-H335-H336-H304-HA26  
 P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233

**Karl Fischer water standard 10.0 mg/g > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment**

RS

Code	Size	Packaging	Notes
570221	10 x 5 ml	Glass ampoule	

**Gravimetric standard**



## Karl Fischer water standard 5.0 mg/ml

- Karl Fischer standard 5.0 mg/ml acqua • Karl Fischer standard eau 5.0 mg/ml • Karl Fischer agua estándar 5.0 mg/ml
- Karl Fischer Standardwasser 5.0 mg / ml

### Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group III



### Danger

H226-H315-H318-H351-H360D-H335-H336-H304-HA26  
 P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233

**Karl Fischer water standard 5.0 mg/ml > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment**

RS

Code	Size	Packaging	Notes
570231	10 x 5 ml	Glass ampoule	

**Volumetric standard**



## Karl Fischer water standard 1.0 mg/g

- Karl Fischer standard 1.0 mg/g acqua • Karl Fischer standard eau 1.0 mg/g • Karl Fischer agua estándar 1.0 mg/g
- Karl Fischer Standardwasser 1.0 mg / g

### Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group III



### Danger

H226-H302-H315-H318-H335-H336-H373-H304  
 P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233

**Karl Fischer water standard 1.0 mg/g > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment**

RS

Code	Size	Packaging	Notes
570211	10 x 5 ml	Glass ampoule	

**Gravimetric standard**



## Karl Fischer water standard 0.10 mg/g

- Karl Fischer standard 0.10 mg/g acqua • Karl Fischer standard eau 0.10 mg/g • Karl Fischer agua estándar 0.10 mg/g
- Karl Fischer Standardwasser 0.10 mg / g

### Classification transport

ONU: 1307  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H315-H319-H335-H373-H304  
 P210-P280-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P233

## Karl Fischer water standard 0.10 mg/g > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment

RS

Code	Size	Packaging	Notes
570201	10 x 5 ml	Glass ampoule	

### Gravimetric standard



## Kerosene

- Cherosene • Kérosène • Queroseno • Kerosin

CAS: 64742-47-8

### Classification transport

ONU: 1223  
 Transport Hazard class: 3  
 Packing group III



### Danger

H304  
 P301+P310a-P331-P405-P501a

## Kerosene > RE - Pure

RE

Description ..... Clear colourless liquid      Identification ..... Positive      Boiling point min. .... ≥ 175 °C      Boiling point max..... ≤ 245 °C  
 Water (K.F.)..... ≤ 0.01 %      Refractive index at 20°C..... 1.441 ÷ 1.451      Residue on ignition..... ≤ 0.001 %

Code	Size	Packaging	Notes
302575	5 l	Plastic tank	



## Kieselguhr composed

- Farina fossile composta • Terre de silice composée • Harina fósil compuesta • Kieselgur besteht

Synonym:  
*Diatomaceous earth*

Molecular Weight: 1495

CAS: 91053-39-3

EEC-N: 293-303-4



### Warning

H373  
 P260-P314-P501a

## Kieselguhr composed > RS - For thin layer chromatography according to Stahl

RS

Description ..... Grey powder      Identification ..... Positive

Code	Size	Packaging	Notes
449895	250 g	Plastic bottle	
449897	1 kg	Plastic bottle	



## Kjeldahl antifoam

- Kjeldahl antischiuma • Kjeldahl Antimousse • Kjeldahl antiespumante • Kjeldahl entschäumer

## Kjeldahl antifoam > RS - For Kjeldahl

RS

Description ..... White round flat tablets

Code	Size	Packaging	Notes
502811	1000 x 1 g	Metallic can	Composition: Sodium sulfate 0.97 g/Silicone antifoam 0.03 g



## Kjeldahl catalyst according to Wieninger

• Kjeldahl catalizzatore sec. Wieninger • Catalyseur Kjeldahl selon Wieninger • Catalizador Kjeldahl según Wieninger • Kjeldahl-Katalysator nach Wieninger



### Warning

H319-H411

P264-P280i-P305+P351+P338-P337+P313-P391-P501a

### Kjeldahl catalyst according to Wieninger > RS - For Kjeldahl

RS

Description ..... Grey round flat tablets

Code	Size	Packaging	Notes
502821	1000 x 5 g	Metallic can	Composition: Sodium sulfate 4.88 g/ Copper sulfate 0.07 g/ Selenium 0.05 g



## Kjeldahl catalyst for water analysis

• Kjeldahl catalizzatore per analisi dell'acqua • Catalyseur Kjeldahl pour analyse de l'eau • Catalizador Kjeldahl para análisis del agua • Kjeldahl-Katalysator für die Wasseranalyse

HEU210

### Kjeldahl catalyst for water analysis > RS - For Kjeldahl

RS

Description ..... Dark grey round flat tablets

Code	Size	Packaging	Notes
502121	1000 x 5 g	Metallic can	Composition: Potassium sulfate 5.0 g/Selenium 5 mg
502122	1000 x 5 g	Metallic can	Composition: Potassium sulfate 5.0 g/Selenium 50 mg



## Kjeldahl catalyst without selenium and titanium

• Kjeldahl catalizzatore • Catalyseur Kjeldahl exempt de sélénium et titane • Catalizador Kjeldahl sin selenio y potasio • Kjeldahl-Katalysator Selen- und Titanfrei

### Classification transport

ONU: 3077

Transport Hazard class: 9

Packing group III



### Warning

H319-H410

P264-P280i-P305+P351+P338-P337+P313-P391-P501a

### Kjeldahl catalyst without selenium and titanium > RS - For Kjeldahl

RS

Description ..... Blue speckled round flat tablets

Code	Size	Packaging	Notes
502791	1000 x 3.9 g	Metallic can	Composition: Potassium sulfate 3.50 g/Copper sulfate 0.40 g
502792	1000 x 5 g	Metallic can	Composition: Potassium sulfate 5.0 g/Copper sulfate 0.50 g



## Kjeldahl selenium catalyst

• Kjeldahl catalizzatore al selenio • Catalyseur Kjeldahl au sélénium • Catalizador Kjeldahl al selenio • Kjeldahl-Selen-Katalysator

### Classification transport

ONU: 3077

Transport Hazard class: 9

Packing group III



### Warning

H319-H410

P264-P280i-P305+P351+P338-P337+P313-P391-P501a

### Kjeldahl selenium catalyst > RS - For Kjeldahl

RS

Description ..... Dark grey round flat tablets

Code	Size	Packaging	Notes
502120	1000 x 5 g	Metallic can	Composition: Potassium sulfate 4.63 g/Copper sulfate 0.28 g/ Selenium 0.09g

**Kjeldahl titanium catalyst**

• Kjeldahl catalizzatore al titanio • Catalyseur Kjeldahl au titane • Catalizador Keldahl al titanio • Kjeldahl-Titankatalysator

**Classification transport**ONU: 3077  
Transport Hazard class: 9  
Packing group III**Warning**H319-H410  
P264-P280i-P305+P351+P338-P337+P313-P391-P501a**Kjeldahl titanium catalyst > RS - For Kjeldahl**

RS

Description ..... Blue speckled round flat tablets

Code	Size	Packaging	Notes
502123	1000 x 3.5 g	Metallic can	Composition: Potassium sulfate 3.5 g/Copper sulfate 0.105 g/ Titane dioxide 0.105 g
502802	500 x 5 g	Metallic can	Composition: Potassium sulfate 5.00 g/Copper sulfate 0.15 g/ Titane dioxide 0.15 g

**Kovac reagent**

• Kovac reattivo per indolo • Réactif pour l'indole selon Kovac • Kovac reactivo • Kovac-Reagenz

**Classification transport**ONU: 2924  
Transport Hazard class: 3  
Packing group III**Warning**H226-H290-H332-H315-H319-H335  
P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233**Kovac reagent > RS - Reagent for indole**

RS

Description ..... Clear yellow green liquid Identification ..... Positive

Code	Size	Packaging	Notes
435922	100 ml	Glass bottle	

**L(+)-Lactic acid**  
 • Acido L(+)-lattico • Acide L(+)-lactique • Acido L(+)-láctico • L-(+)-Milchsäure

Synonym:  
*Sarcolactic acid*

CH<sub>3</sub>CHOHCOOH  
 Molecular Weight: 90,08  
 CAS: 79-33-4  
 EEC-N: 201-196-2

**Danger**  
 H315-H318  
 P264-P280a-P305+P351+P338-P310a-P362+P364-P332+P313

**L(+)-Lactic acid > ERBapharm - According to pharmacopeia: BP-DAB-FU-Ph.Eur.-Ph.Franc.**

**ERBapharm**

Description .....Syrupy colourless to slightly yellow liq. Reducing substances .....Conform Ph.Eur. Density at 20° C .....1.20 ÷ 1.21 Ca.....≤200 ppm  
 Identification .....Positive Ether ins. substances .....Conform Ph.Eur. Sulphated ash..... ≤ 0.1 % Assay (acidimetric) .....88.0 ÷ 92.0 %  
 Appearance .....Conform Ph.Eur. Citric, oxalic, phosphoric acids .....Conform Ph.Eur. Heavy metals (Pb).....≤10 ppm Origin (BSE/TSE).....Synthesis  
 Sulphate .....≤200 ppm Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
304652	1 l	Glass bottle	
304651	2.5 l	Glass bottle	
304653	25 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**L-Lactic acid calcium salt ▶ Calcium lactate**

**Lactophenol blue solution**  
 • Blu lattofenolo soluzione • Bleu de lactophénol solution • Azul lactofenol solución • Lactophenolblau-Lösung

**Classification transport**  
 ONU: 2927  
 Transport Hazard class: 6.1  
 Packing group II

**Danger**  
 H302-H331-H314-H341-H373  
 P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P308+P313-P403+P233

**Lactophenol blue solution > RS - For microscopy**

**RS**

Description .....Dark blue liquid Identification .....Positive

Code	Size	Packaging	Notes
428901	100 ml	Glass bottle	In Vitro Diagnostic Medical Device

**Dye for bacteriology. Contains phenol and lactic acid**

**Lactose monohydrate**  
 • Lattosio monoidrato • Lactose monohydrate • Lactosa monohidrato • Lactose Monohydrat

Synonym:  
*4-O-β-D-Galactopyranosyl-D-glucose*

C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O  
 Molecular Weight: 360,32  
 CAS: 10039-26-6  
 EEC-N: 200-559-2

**Lactose monohydrate > RPE - For analysis - ACS**

**RPE**

Description .....White crystalline powder Sucrose .....Conform Residue on ignition.....≤300 ppm  
 Identification .....Positive Water (K.F) .....4.0 ÷ 6.0 % Heavy metals (Pb).....≤5 ppm  
 Dextrose .....Conform Water-insoluble matter .....≤50 ppm Fe .....≤5 ppm

Code	Size	Packaging	Notes
457551	100 g	Plastic bottle	
457552	250 g	Plastic bottle	
457557	1 kg	Plastic bottle	
457553	25 kg	Plastic bucket	

**Lactose monohydrate > ERBApharm - According to pharmacopoeia: DAB-BP-FU-NF-Ph.Eur.****ERBApharm**

Description .....	White crystalline powder	Absorbance .....	Conform Ph.Eur.	Loss on drying .....	≤ 0.5 %	TYMC .....	≤ 50 CFU/g
Identification .....	Positive	Specific optical rotation on dry .....	+54.4 ÷ +55.9 °	Sulphated ash .....	≤ 0.1 %	Escherichia coli .....	Absent Ph.Eur
Appearance of solution .....	Conform Ph.Eur.	Water (K.F) .....	4.5 ÷ 5.5 %	Heavy metals (Pb) .....	≤ 5 ppm		
Acidity or alkalinity .....	Conform Ph.Eur.			TAMC .....	≤ 100 CFU/g		

Code	Size	Packaging	Notes
348707	1 kg	Plastic bottle	
348708	5 kg	Plastic tank	
348702	10 kg	Carton box	
348703	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Lanolin anhydrous**

• Grasso di lana anidro • Lanoline anhydre • Grasa de lana anhidra • Lanolin Wasserfreies

Synonym:  
Wool fat

CAS: 8006-54-0  
EEC-N: 232-348-6

**Lanolin anhydrous > ERBApharm - According to pharmacopoeia: FU-Ph.Eur.****ERBApharm**

Description .....	Soft yellow mass	Oxydable hydrosol.matt.....	Conform Ph.Eur.	Saponification value.....	90 ÷ 105	Paraffins .....	≤1.0 %
Melt prod. description .....	Clear liquid	Water absorption capac. ....	Conform Ph.Eur.	Loss on drying .....	≤0.5 %	Residui pesticidi .....	≤ 1 ppm
Identification .....	Positive	Acid value .....	≤1.0	Sulphated ash .....	≤0.15 %		
Acids,alkal.water-solub.....	Conform Ph.Eur.	Peroxide value.....	≤20	Chloride.....	≤150 ppm		

Code	Size	Packaging	Notes
347357	1 kg	Metallic can	
347359	5 kg	Plastic tank	
347355	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Lanthanum standard solution**

• Lantano standard soluzione • Lanthane solution standard • Lantano, solución patrón • Lanthan-Standardlösung

**Classification transport**

ONU: 3267  
Transport Hazard class: 8  
Packing group III

**Lanthanum standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505692	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505695	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505693	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Lanthanum standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503681	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503683	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503685	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503687	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Lanthanum standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507744	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507509	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



### Lanthanum chloride 25 g/l solution

• Lantano cloruro 25 g/l soluzione • Lanthane chlorure 25g/l • Lantano cloruro solución 25 g/l  
• Lanthanchlorid 25 g/l

Synonym:

• Lanthanum(III) chloride  
• Lanthanum trichloride

LaCl<sub>3</sub>  
Molecular Weight: 245,27  
CAS: 10099-58-8



**Danger**

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

## Lanthanum chloride 25 g/l solution > RS - Ionisation standard solution for AAS

RS

Code	Size	Packaging	Notes
504537	500 ml	Plastic bottle	Matrix: Hydrochloric acid



### Lanthanum nitrate hexahydrate

• Lantano nitrato esaidrato • Lanthane nitrate hexahydraté • Lantano nitrato hexahidratado  
• Lanthannitrat-Hexahydrat

Synonym:

Nitric acid, lanthanum (III) salt, hexahydrate

La(NO<sub>3</sub>)<sub>3</sub>·6H<sub>2</sub>O  
Molecular Weight: 433,02  
CAS: 10277-43-7  
EEC-N: 233-238-0

**Classification transport**

ONU: 1477  
Transport Hazard class: 5.1  
Packing group II



**Danger**

H272-H315-H319-H335  
P210-P261-P280-P304+P340-P305+P351+P338-  
P403+P233

## Lanthanum nitrate hexahydrate > RPE - For analysis

RPE

Description ..... White crystalline powder    Identification ..... Positive    Fe ..... ≤ 10 ppm    Assay ..... ≥ 98.0 %

Code	Size	Packaging	Notes
457502	25 g	Glass bottle	
457506	250 g	Plastic bottle	



### Lanthanum nitrate 0.1 mol/l

• Lantano nitrato 0.1 mol/l • Lanthane nitrate 0.1 mol/l • Lantano nitrato 0.1 mol/l • Lanthannitrat 0.1 mol/l

## Lanthanum nitrate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613010100	1 l	Plastic bottle	Ref Ph.Eur 3010100



### Lanthanum nitrate solution 50 g/l

• Lantano nitrato soluzione 50 g/l • Lanthane nitrate 50 g/l • Lantano nitrato solución 50 g/l • Lanthannitratlösung 50 g/l

HEU210

## Lanthanum nitrate solution 50 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048001	1 l	Plastic bottle	Ref Ph.Eur 1048001

**Lanthanum oxide**

• Lantano ossido • Lanthane oxyde • Lantano oxido • Lanthanoxid

La<sub>2</sub>O<sub>3</sub>

Molecular Weight: 325,81

CAS: 1312-81-8

EEC-N: 215-200-5

**Lanthanum oxide > RPE - For analysis****RPE**

Description ..... White or pink powder      Loss on ignition ..... ≤ 3.0 %      Assay (complexometric) ..... ≥ 99.5 %  
 Identification ..... Positive      Fe203 ..... ≤ 250 ppm

Code	Size	Packaging	Notes
457511	100 g	Glass bottle	

**Lauryltrimethylammonium bromide ▶ Dodecyltrimethylammonium bromide****Lead**

• Piombo • Plomb • Plomo • Bleibleche

Pb

Molecular Weight: 207,2

CAS: 7439-92-1

EEC-N: 231-100-4

**Danger**

H360FD-H362-H372-HA26

P260h-P263-P264-P280-P308+P313-P501a

**Lead > RPE - For analysis****RPE**

Description ..... Grey foil      Identification ..... Positive      Assay ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
468866	500 g	Box	

~ 0,7 mm thickness

**Lead standard solution**

• Piombo standard soluzione • Plomb solution standard • Plomo, solución patrón • Blei-Standardlösung

**Warning**

H315-H319

P264-P280a-P305+P351+P338-P332+P313-

P362+P364-P337+P313

**Lead standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615001700	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001700
615001702	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001702
615001703	100 ml	Plastic bottle	A 2 ppm solution: to dilute according to Ref Ph.Eur 5001703
615001704	100 ml	Plastic bottle	A 1 ppm solution: to dilute according to Ref Ph.Eur 5001704
615001705	100 ml	Plastic bottle	A 0.1 ppm solution: to dilute according to Ref Ph.Eur 5001705
615001706	100 ml	Plastic bottle	A 10 ppm solution R1: to dilute according to Ref Ph.Eur 5001706
615001709	100 ml	Plastic bottle	A 100 ppm solution: to dilute according to Ref Ph.Eur 5001701
615001701	500 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001700

**Lead standard solution > RS - For analysis according to USP****RS**

Code	Size	Packaging	Notes
504901	100 ml	Plastic bottle	conc. 100 ppm
504902	500 ml	Plastic bottle	conc. 100 ppm

## Lead standard solution &gt; RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505767	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505768	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505769	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Lead standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503801	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503803	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503805	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503807	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Lead standard solution &gt; RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507752	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507490	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497595	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Nitric acid
E497591	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Lead standard solution &gt; RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
468791		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Lead standard solution &gt; RS - Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504364	50 ml	Plastic bottle	conc. 10 ppb - Matrix: 1% Nitric acid

**Lead (II) acetate basic**

• Piombo acetato basico • Plomb (II) acétate basique • Plomo (II) acetato básico • Blei (II) acetat basisch

Synonym:

Lead subacetate

$C_4H_6O_4Pb \cdot 2Pb(OH)_2$   
 Molecular Weight: 566,48  
 CAS: 1335-32-6  
 EEC-N: 215-630-3

**Classification transport**

ONU: 1616  
 Transport Hazard class: 6.1  
 Packing group III

**Danger**

H351-H360Df-H373-H410-HA26  
 P260-P280-P308+P313-P314-P405-P501a

**Lead (II) acetate basic > RPE - For analysis - ACS****RPE**

Description ..... White powder    Insol. in dil. acetic ac. .... ≤200 ppm    Cu ..... ≤20 ppm    Assay (alkalimetric) ..... ≥33.0 % PbO  
 Identification ..... Positive    Chloride ..... ≤30 ppm    Fe ..... ≤20 ppm  
 Loss on drying ..... ≤1.5 %    Nitrate-nitrite (NO<sub>3</sub>) ..... ≤30 ppm    K ..... ≤200 ppm  
 Water-insoluble matter ..... ≤1.0 %    Ca ..... ≤100 ppm    Na ..... ≤500 ppm

Code	Size	Packaging	Notes
468984	100 g	Plastic bottle	
468985	250 g	Plastic bottle	
468987	1 kg	Plastic bottle	

**Lead (II) acetate basic solution**

• Piombo acetato basico soluzione • Plomb (II) acétate basique solution • Plomo (II) acetato básico solución • Blei (II) acetat basische Lösung

Synonym:

Lead subacetate

**Classification transport**

ONU: 1616  
 Transport Hazard class: 6.1  
 Packing group III

**Danger**

H351-H360Df-H373-H410-HA26  
 P260-P280-P308+P313-P314-P405-P501a

**Lead (II) acetate basic solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611048400	100 ml	Glass bottle	Ref Ph.Eur 1048400

**Lead (II) acetate cotton**

• Cotone piombo (II) acetato • Coton à l'acétate de plomb (II) • Plomo (II) acetato algodón • Blei (II) acetat Baumwolle

$Pb(H_2CCOO)_2$   
 Molecular Weight: 325,3  
 CAS: 301-04-2

**Danger**

H360-H411-HA26-HEU201  
 P273-P280-P308+P313-P391-P405-P501a

**Lead (II) acetate cotton > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611048101	10 g	Glass bottle	Ref Ph.Eur 1048101

**Lead (II) acetate cotton > RS - For analysis according to USP****RS**

Code	Size	Packaging	Notes
617000301	10 g	Plastic bottle	Lead acetate cotton

**Lead (II) acetate paper**

• Cartina piombo (II) acetato • Papier (II) à l'acétate de plomb • Plomo (II) acetato papel • Blei (II) acetatpapier

**Danger**

H360-H411-HA26-HEU201  
 P273-P280-P308+P313-P391-P405-P501a

**Lead (II) acetate paper > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611048102	50 pc	Tube	Ref Ph.Eur 1048102



## Lead (II) acetate solution 95 g/l

• Piombo acetato soluzione 95 g/l • Plomb (II) acétate solution 95g/l • Plomo (II) acetato solución 95 g/l  
• Blei (II) acetatlösung 95 g/l

Synonym:  
*Lead subacetate*



### Danger

H360Df-H373-H411-HA26-HEU201  
P260-P280-P308+P313-P314-P405-P501a

## Lead (II) acetate solution 95 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048103	100 ml	Plastic bottle	Ref Ph.Eur 1048103



## Lead (II) acetate trihydrate

• Piombo di-acetato triidrato • Plomb (II) acétate trihydraté • Plomo (II) acetato 3-hidratado • Blei (II) acetat Trihydrat

$C_6H_6O_4Pb \cdot 3H_2O$   
Molecular Weight: 379,33  
CAS: 6080-56-4

### Classification transport

ONU: 1616  
Transport Hazard class: 6.1  
Packing group III



### Danger

H302-H332-H360Df-H373-H410-HA26-HEU201  
P260-P264-P271-P280-P304+P340-P308+P313

## Lead (II) acetate trihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals      ppm      Cu ..... ≤20 ppm      Ca ..... ≤50 ppm  
Identification ..... Positive      Chloride ..... ≤5 ppm      Fe ..... ≤10 ppm      K ..... ≤50 ppm  
Diluted acetic acid insoluble matter ... ≤100      Nitrate-nitrite (NO<sub>3</sub>) ..... ≤50 ppm      Assay (complexometric) ..... 99.0 ÷ 103.0 %      Na ..... ≤100 ppm

Code	Size	Packaging	Notes
468934	100 g	Plastic bottle	
468935	250 g	Plastic bottle	
468937	1 kg	Plastic bottle	
468932	25 kg	Drum	

## Lead (II) acetate trihydrate > RE - Pure

RE

Description ..... White crystals      Fe ..... ≤ 20 ppm      Assay (complexometric) ..... ≥ 99.5 %  
Identification ..... Positive      Zn ..... ≤ 50 ppm

Code	Size	Packaging	Notes
357253	25 kg	Plastic bucket	



## Lead (II) nitrate

• Piombo nitrato • Plomb (II) nitrate • Plomo (II) nitrato • Blei (II) nitrat

Synonym:  
*Lead dinitrate*

$Pb(NO_3)_2$   
Molecular Weight: 331,21  
CAS: 10099-74-8

## Lead (II) nitrate > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000321	100 ml	Plastic bottle	Stock Solution TS

## Lead (II) nitrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals      Chloride ..... ≤ 10 ppm      Fe ..... ≤ 10 ppm      Na ..... ≤ 0.02 %  
Identification ..... Positive      Ca ..... ≤ 50 ppm      Assay (complexometric) ..... ≥ 99.0 %  
Dil. HNO<sub>3</sub>-insol. matter ..... ≤ 50 ppm      Cu ..... ≤ 20 ppm      K ..... ≤ 50 ppm

Code	Size	Packaging	Notes
469355	100 g	Plastic bottle	
469356	500 g	Plastic bottle	
469357	1 kg	Plastic bottle	
469353	25 kg	Plastic bucket	

**Lead (II) nitrate > RE - Pure****RE**

Description ..... White crystals Dil. HNO<sub>3</sub>-insol. matter ..... ≤ 0.005 % pH solution 7.5% ..... 3 ÷ 4 Fe ..... ≤ 10 ppm  
 Identification ..... Positive Chloride ..... ≤ 50 ppm Cu ..... ≤ 20 ppm Assay (complexometric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
358007	1 kg	Plastic bottle	
358008	5 kg	Plastic tank	

**Lead (II) nitrate 0.1 mol/l**

• Piombo nitrato 0.1 mol/l • Plomb (II) nitrate 0.1 mol/l • Plomo (II) nitrato 0.1 mol/l • Blei (II) nitrat 0.1 mol/l

Synonym:  
Lead dinitrate

**Danger**

H360Df-H373-H411-HA26-HEU201  
P260-P280-P308+P313-P314-P405-P501a

**Lead (II) nitrate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613003101	500 ml	Plastic bottle	Ref Ph.Eur 3003100
613003100	1 l	Plastic bottle	Ref Ph.Eur 3003100

**Lead (II) nitrate 0.05 mol/l**

• Piombo nitrato 0.05 mol/l • Plomb (II) nitrate 0.05 mol/l • Plomo (II) nitrato 0.05 mol/l  
• Blei (II) nitrat 0.05 mol/l

Synonym:  
Lead dinitrate

**Danger**

H360Df-H373-H412-HA26-HEU201  
P260-P280-P308+P313-P314-P405-P501a

**Lead (II) nitrate 0.05 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613009700	100 ml	Plastic bottle	Ref Ph.Eur 3009700

**Lead (II) nitrate solution 33 g/l**

• Piombo nitrato soluzione 33 g/l • Plomb (II) nitrate solution 33g/l • Plomo (II) nitrato solución 33 g/l  
• Blei (II) nitratlösung 33 g/l

Synonym:  
Lead dinitrate

**Classification transport**

ONU: 1935  
Transport Hazard class: 6.1  
Packing group III

**Danger**

H360Df-H373-H411-HA26-HEU201  
P260-P280-P308+P313-P314-P405-P501a

**Lead (II) nitrate solution 33 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611048301	1 l	Plastic bottle	Ref Ph.Eur 1048301





## Lead (II) oxide

• Piombo ossido • Plomb (II) oxyde • Plomo (II) óxido • Blei (II) oxid

PbO  
Molecular Weight: 223,2  
CAS: 1317-36-8  
EEC-N: 215-267-0



### Danger

H302-H332-H360Df-H373-H410-HA26-HEU201  
P260-P264-P271-P280-P304+P340-P308+P313

### Lead (II) oxide > RPE - For analysis

RPE

Description ..... Polvere gialla o arancio Insoluble in Acetic ac. .... ≤ 200 ppm Ca ..... ≤ 50 ppm K ..... ≤ 50 ppm  
Identification ..... Positive Nitrate ..... ≤ 100 ppm Cu ..... ≤ 50 ppm Na ..... ≤ 0.02 %  
Chloride ..... ≤ 20 ppm Ag ..... ≤ 5 ppm Fe ..... ≤ 20 ppm Assay (complexometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
469404	100 g	Glass bottle	

### Lead (II) oxide > RE - Pure

RE

Description ..... Yellow powder Identification ..... Positive Assay ..... ≥ 99.8 %

Code	Size	Packaging	Notes
358257	1 kg	Plastic bottle	
358259	5 kg	Plastic tank	
358252	25 kg	Plastic bucket	



## Lead (II) sulfate

• Piombo solfato • Plomb (II) sulfate • Plomo (II) sulfato • Blei (II) sulfat

Synonym:  
Anglesite

PbSO<sub>4</sub>  
Molecular Weight: 303,26  
CAS: 7446-14-2  
EEC-N: 231-198-9



### Danger

H302-H332-H360Df-H373-H410-HA26-HEU201  
P260-P264-P271-P280-P304+P340-P308+P313

### Lead (II) sulfate > RPE - For analysis

RPE

Description ..... White powder Chloride ..... ≤ 20 ppm Fe ..... ≤ 20 ppm Assay (complexometric) ..... ≥ 99.0 %  
Identification ..... Positive Insol. in Ammonium acet. .... ≤ 500 ppm K ..... ≤ 500 ppm  
Loss on ignition ..... ≤ 0.5 % Nitrate ..... Conform Na ..... ≤ 0.1 %

Code	Size	Packaging	Notes
469505	250 g	Plastic bottle	
469506	1 kg	Plastic bottle	



## Lead (IV) oxide

• Piombo biossido • Plomb (IV) oxyde • Plomo (IV) óxido • Blei (IV) oxid

Synonym:  
Lead peroxide

PbO<sub>2</sub>  
Molecular Weight: 239,2  
CAS: 1309-60-0  
EEC-N: 215-174-5

**Classification transport**  
ONU: 1872  
Transport Hazard class: 5.1  
Packing group III



### Danger

H302-H332-H360Df-H373-H410-HA26-HEU201  
P260-P264-P271-P280-P304+P340-P308+P313

### Lead (IV) oxide > RPE - For analysis

RPE

Description ..... Blackish powder Sulphate ..... ≤ 0.1 % Loss on drying ..... ≤ 0.5 %  
Identification ..... Positive HNO<sub>3</sub>-insoluble matter ..... ≤ 0.05 % Mn ..... ≤ 20 ppm  
Chloride ..... ≤ 200 ppm Substances not ppt. H<sub>2</sub>S ..... ≤ 0.05 % Assay (oxidimetric) ..... ≥ 97.0 %

Code	Size	Packaging	Notes
469055	250 g	Plastic bottle	
469057	1 kg	Plastic bottle	

**Lecithin of soya**

• Lecitina di soia • Lécithine de soja • Lecitina de soja • Sojalecithin

## Synonym:

- L- $\alpha$ -Phosphatidylcholine
- 1,2-Diacyl-sn-glycero-3-phosphocholine

Molecular Weight: 750  
CAS: 8002-43-5  
EEC-N: 232-307-2

**Lecithin of soya > RE - Pure****RE**

Description ..... Powder      Water ..... < 1 %      Peroxide value..... < 5 meq O<sub>2</sub>/Kg      Assay (phospholipids as acetone insolubl. > 97 %  
Identification ..... Positive      Acidity index ..... < 35 mg KOH/g      Insolubles in toluene..... < 0,3 %      Sulphated ash..... ≤ 12 %

Code	Size	Packaging	Notes
348754	1 kg	Plastic bottle	

**L(+)-Leucine**

• L(+)-Leucina • L(+)-Leucine • L(+)-Leucina • L (+) - Leucin

## Synonym:

(S)-2-Amino-4-methylpentanoic acid

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>CHNH<sub>2</sub>COOH  
Molecular Weight: 131,18  
CAS: 61-90-5  
EEC-N: 200-522-0

**L(+)-Leucine > RPE - For analysis****RPE**

Description ..... White crystals      Ammonium ..... ≤50 ppm      Residue on ignition ..... ≤500 ppm      Fe ..... ≤10 ppm  
Identification ..... Positive      Chloride ..... ≤250 ppm      Tyrosine ..... ≤200 ppm      Assay (non-aqueous medium) ..... ≥99 %  
Specific optical rotation... +15.1 ÷ +16.1 °      Total phosphorus ..... ≤10 ppm      Tryptophan ..... ≤300 ppm  
Loss on drying ..... ≤0.1 %      Heavy metals (Pb) ..... ≤10 ppm      Total sulphur ..... ≤250 ppm

Code	Size	Packaging	Notes
457928	5 g	Glass bottle	

**Light green**

• Verde luce SF • Vert lumière SF • Verde claro SF • Hellgrün

## Synonym:

Acid Green 5

C<sub>37</sub>H<sub>34</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>9</sub>S<sub>3</sub>  
Molecular Weight: 792,86  
CAS: 5141-20-8  
EEC-N: 225-906-5

**Warning**

H312-H332  
P261-P271-P280h-P304+P340-P312a-P501a

**Light green > RS - For microscopy - C.I. 42095****RS**

Description ..... Dark violet powder      Identification ..... Positive      Water solubility..... Conform      Assay ..... ≥ 95 %

Code	Size	Packaging	Notes
491371	10 g	Glass bottle	
491372	25 g	Glass bottle	

**Dye for botanical-bacteriology-cytology**

**Lithium standard solution**

• Lítio standard soluzione • Lithium solution standard • Litio, solución patrón • Lithium-Standardlösung

**Danger**

H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Lithium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505702	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505705	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505703	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lithium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503691	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503693	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503695	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
503697	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lithium standard solution > RS - Standard solution for AAS****RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507745	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507486	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497525	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497521	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lithium standard solution > RS - NORMEX - Concentrated solution for AAS****RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
458211		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package****Lithium standard solution > RS - Standard solution for ion chromatography****RS**

Code	Size	Packaging	Notes
503281	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503283	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Lithium carbonate**

• Litio carbonato • Lithium carbonate • Litio carbonato • Lithiumcarbonat

## Synonym:

- Carbolithium
- Carbonic acid lithium salt

Li<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 73,89  
CAS: 554-13-2  
EEC-N: 209-062-5

**Warning**

H302-H319  
P264-P280i-P301+P312a-P305+P351+P338-  
P337+P313-P501a

**Lithium carbonate > RPE - For analysis - ACS****RPE**

Description ..... White powder Diluted HCl-ins. matter ..... ≤ 100 ppm Total sulphur ..... ≤ 0.2 % K ..... ≤ 100 ppm  
Identification ..... Positive Heavy metals (Pb) ..... ≤ 20 ppm Ca ..... ≤ 100 ppm Assay (alkalimetric) ..... ≥ 99.0 %  
Chloride ..... ≤ 50 ppm Nitrate ..... ≤ 5 ppm Fe ..... ≤ 20 ppm Na ..... ≤ 0.1 %

Code	Size	Packaging	Notes
458204	100 g	Plastic bottle	
458207	1 kg	Plastic bottle	

**Lithium carbonate > RE - Pure****RE**

Description ..... White powder Chloride ..... ≤ 300 ppm Sulphate ..... ≤ 0.2 % Assay (non-aqueous medium) ..... ≥ 98 %  
Identification ..... Positive Diluted HCl-ins. matter ..... ≤ 500 ppm Fe ..... ≤ 30 ppm

Code	Size	Packaging	Notes
348955	250 g	Plastic bottle	
348957	1 kg	Plastic bottle	

**Lithium chloride**

• Litio cloruro • Lithium chlorure • Litio cloruro • Lithiumchlorid

LiCl  
Molecular Weight: 42,39  
CAS: 7447-41-8  
EEC-N: 231-212-3

**Warning**

H302-H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

**Lithium chloride > RPE - For analysis - ACS****RPE**

Description ..... White crystalline powder Water-insoluble matter ..... ≤ 100 ppm Ca ..... ≤ 100 ppm Na ..... ≤ 0.2 %  
Identification ..... Positive Heavy metals (Pb) ..... ≤ 20 ppm Fe ..... ≤ 10 ppm  
Alcalinity ..... ≤ 0.008 meq/g Sulphate ..... ≤ 100 ppm K ..... ≤ 100 ppm  
Loss on drying ..... ≤ 1.0 % Ba ..... ≤ 30 ppm Assay (argentimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
458254	100 g	Glass bottle	
458256	500 g	Plastic bottle	
458257	1 kg	Plastic bottle	

**Lithium chloride > RE - Pure****RE**

Description ..... White crystalline powder Umidità (H<sub>2</sub>O) ..... ≤ 0.8 % Fe ..... ≤ 20 ppm  
Identification ..... Positive Sulphate ..... ≤ 500 ppm Assay (argentimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
458271	250 g	Plastic bottle	
458272	1 kg	Plastic bottle	
458275	5 kg	Plastic jar	
458273	25 kg	Plastic bucket	

**Lithium hydride**

• Litio idruro • Lithium hydrure • Litio hidruro • Lithiumhydrid

LiH

Molecular Weight: 7,95

CAS: 7580-67-8

EEC-N: 231-484-3

**Classification transport**

ONU: 1414

Transport Hazard class: 4.3

Packing group I

**Danger**

H260-H314

P223-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Lithium hydride > RE - Pure****RE**

Description ..... Polvere bianco grigiast Identification ..... Positive Assay (gas volumetric) ..... ≥95 %

Code	Size	Packaging	Notes
458303	50 g	Glass bottle	

**Lithium hydroxide anhydrous**

• Litio idrossido anidro • Lithium hydroxyde anhydre • Litio hidróxido anhidro • Lithiumhydroxid wasserfrei

LiOH

Molecular Weight: 23,95

CAS: 1310-65-2

EEC-N: 215-183-4

**Classification transport**

ONU: 2680

Transport Hazard class: 8

Packing group II

**Danger**

H331-H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P403+P233

**Lithium hydroxide anhydrous > RPE - For analysis****RPE**Description ..... White powder Chloride ..... ≤ 0.04 % Na ..... ≤ 0.02 % Insolubles ..... ≤ 0.01 %  
Identification ..... Positive Sulfate ..... ≤ 0.03 % Ca ..... ≤ 0.005 %  
Fe ..... ≤ 0.0001 % Assay (LiOH) ..... ≥ 99.0 % Li2CO3 ..... ≤ 0.5 %

Code	Size	Packaging	Notes
458281	250 g	Glass bottle	
458282	1 kg	Plastic bottle	

**Lithium hydroxide monohydrate**

• Litio idrossido monoidrato • Lithium hydroxyde monohydraté • Litio hidróxido monohidrato • Lithiumhydroxidmonohydrat

LiOH.H<sub>2</sub>O

Molecular Weight: 41,96

CAS: 1310-66-3

EEC-N: 215-183-4

**Classification transport**

ONU: 2680

Transport Hazard class: 8

Packing group II

**Danger**

H302-H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Lithium hydroxide monohydrate > RPE - For analysis****RPE**Description ..... White powder Chloride ..... ≤ 100 ppm Fe ..... ≤ 15 ppm K + Na ..... ≤ 0.05 %  
Identification ..... Positive Sulphate ..... ≤ 300 ppm Assay (acidimetric) ..... ≥ 98 % Insoluble in HCl ..... ≤ 0.01 %  
Carbonate ..... ≤ 0.70 % Ca ..... ≤ 250 ppm Insoluble in water ..... ≤ 0.01 %

Code	Size	Packaging	Notes
458292	1 kg	Plastic bottle	

**Lithium methoxide 0.1 mol/l (0.1N)**• Litio metilato 0.1 mol/l (0.1N) • Lithium méthylate 0.1 mol/l (0.1N) • Litio metilato 0.1 mol/l (0.1N)  
• Lithiummethylat 0.1 mol/l (0.1 N)Synonym:  
*Lithium methylate*CH<sub>3</sub>LiO

Molecular Weight: 38,02

CAS: 865-34-9

**Classification transport**

ONU: 1992

Transport Hazard class: 3

Packing group II

**Danger**

H225-H302-H314-H361d-H370-H336-H373

P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Lithium methoxide 0.1 mol/l (0.1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E458321	500 ml	Glass bottle	

**Toluene solution ready-to-use**

**Lithium nitrate**

• Litio nitrato • Lithium nitrate • Litio nitrato • Lithiumnitrat

LiNO<sub>3</sub>  
 Molecular Weight: 68,95  
 CAS: 7790-69-4  
 EEC-N: 232-218-9

**Classification transport**  
 ONU: 2722  
 Transport Hazard class: 5.1  
 Packing group III



**Danger**  
 H272  
 P210-P220-P280-P370+P378a-P501a

**Lithium nitrate > RPE - For analysis****RPE**

Description ..... White crystalline powder    Water ..... ≤ 1 %    Chloride ..... ≤ 100 ppm    Fe2O3 ..... ≤ 50 ppm  
 Identification ..... Positive    Alkalinity ..... ≤ 0.05 %    Sulphate ..... ≤ 500 ppm    Assay ..... ≥ 99.0 %

Code	Size	Packaging	Notes
458355	250 g	Plastic bottle	
458356	1 kg	Plastic bottle	

**Lithium sulfate monohydrate**

• Litio solfato monoidrato • Lithium sulfate monohydraté • Litio solfato monoidrato • Lithiumsulfat-Monohydrat

Li<sub>2</sub>SO<sub>4</sub>·H<sub>2</sub>O  
 Molecular Weight: 127,95  
 CAS: 10102-25-7  
 EEC-N: 233-802-4



**Warning**  
 H302  
 P264-P270-P301+P312a-P330-P501a

**Lithium sulfate monohydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... White crystalline powder    Water-insoluble matter ..... ≤100 ppm    Heavy metals (Pb) ..... ≤10 ppm    Na ..... ≤500 ppm  
 Identification ..... Positive    Chloride ..... ≤20 ppm    Fe ..... ≤10 ppm    Assay (acidimetric) ..... ≥99.0 % s.s.  
 Loss on drying 150° C ..... 13.0 ÷ 15.0    Nitrate ..... ≤10 ppm    K ..... ≤500 ppm

Code	Size	Packaging	Notes
458404	100 g	Plastic bottle	
458405	1 kg	Plastic bottle	

**Lithium tetraborate anhydrous**

• Litio tetraborato anidro • Lithium tétraborate anhydre • Litio tetraborato anhidro • Lithiumtetraborat wasserfrei

Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub>  
 Molecular Weight: 169,12  
 CAS: 12007-60-2  
 EEC-N: 234-514-3



**Danger**  
 H302-H318-H361d  
 P264-P280-P301+P312a-P305+P351+P338-P310a-P308+P313

**Lithium tetraborate anhydrous > RE - Pure****RE**

Description ..... White powder    Identification ..... Positive    Assay ..... ≥ 98 %

Code	Size	Packaging	Notes
458163	1 kg	Plastic bottle	
458164	5 kg	Plastic jar	

**Litmus**

• Tornasole • Tournesol • Tornasol • Lackmus

Molecular Weight: 3300  
 CAS: 1393-92-6  
 EEC-N: 215-739-6

**Litmus > RPE - For analysis****RPE**

Description ..... Dark blue granules    Identification ..... Positive    Colour change ..... rosso - blu    pH range ..... 4.8 ÷ 8.3

Code	Size	Packaging	Notes
489054	100 g	Plastic bottle	





## Litmus paper

• Cartine tornasole • Papier tournesol • Papel tornasol • Sonnenblumenpapier

### Classification transport

ONU: 2025

### Litmus paper > RS - For pHmetry

RS

Code	Size	Packaging	Notes
435260000	1 roll	Dispenser	Blue litmus paper, Color change: blue --> red, change pH 8.0 - 5.0
435300000	1 roll	Dispenser	Neutral litmus paper, Color change: red <-- purple --> Blue, Change pH 5.0 - 8.0
435340000	1 roll	Dispenser	Red litmus paper, Color change: red --> blue, Change pH 5.0 - 8.0

Roll dispenser 5 m by 7 mm



## Lugol concentrated solution

• Lugol "forte" soluzione concentrata • Réactif de Lugol solution concentrée • Lugol reactivo solución concentrada • Lugol Reagenz konzentrierte Lösung



### Warning

H373

P260-P314-P501a

### Lugol concentrated solution > RS - For microscopy

RS

Description ..... Liquido limpido rosso bruno Identification ..... Positive Assay as iodine (oxidimetric) ..... 4.9 ÷ 5.1 % (p/v)

Code	Size	Packaging	Notes
458741	1 l	Glass bottle	



## Lugol solution for Gram-Hucker kit

• Lugol soluzione in acqua per kit Gram-Hucker • Réactif de Lugol solution pour kit de Gram-Hucker • Lugol solución para kit Gram - Hucker • Lugol-Reagenzlösung für das Gram-Hucker-Kit



### Danger

H318-H373-H411

P260-P280i-P305+P351+P338-P310a-P314-P501a

### Lugol solution for Gram-Hucker kit > RS - For bacteriology

RS

Description ..... Brown clear liquid Identification ..... Positive Assay ..... 0.85 ÷ 0.95 %p/p (12)

Code	Size	Packaging	Notes
458751	250 ml	Glass bottle	In Vitro Diagnostic Medical Device



## Lugol's Reagent Iodine-Iodide Solution

• Lugol reattivo soluzione iodo-iodurata • Réactif de Lugol solution • Lugol reactivo solución yodo-yodurata • Lugol-Reagenzlösung



### Warning

H373

P260-P314-P501a

### Lugol's Reagent Iodine-Iodide Solution > RS - For colposcopy

RS

Description ..... Brown clear liquid Identification ..... Positive Assay as iodine (oxidimetric) ..... 1.9 ÷ 2.1 % p/v

Code	Size	Packaging	Notes
458762	250 ml	Glass bottle	Medical Device
E458761	6 x 250 ml	Glass bottle	Medical Device
458763	1 l	Glass bottle	Medical Device

**Luminol**

• Luminol • Luminol • Luminol • Luminol

Synonym:

5-Amino-2,3-dihydro-1,4-phthalazinedione

$C_8H_7N_3O_2$   
 Molecular Weight: 177,17  
 CAS: 521-31-3  
 EEC-N: 208-309-4

**Warning**

H302-H332

P261-P264-P271-P301+P312a-P304+P340-P501a

**Luminol > RPE - For analysis****RPE**

Description ..... Polvere verde-giallog. Identification ..... Positive Assay (acidimetric) ..... 97.5 ÷ 102.5 %

Code	Size	Packaging	Notes
458772	25 g	Glass bottle	

**For chemiluminescence****Lutetium standard solution**

• Lutezio standard soluzione • Lutéthium solution standard • Lutecio, solución patrón • Lutethium-Standardlösung

**Classification transport**

ONU: 1760  
 Transport Hazard class: 8  
 Packing group III

**Lutetium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505707	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505708	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505709	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lutetium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503611	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503613	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503615	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503617	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****L(+)-Lysine monohydrochloride**

• L(+)-Lisina monochloridrato • L(+)-Lysine monochlorhydrate • L(+)-Lisina monochlorhidrato • L (+) Lysinmonohydrochlorid

Synonym:

(S)-2,6-Diaminohexanoic acid monohydrochloride

$C_8H_{14}N_2O_2 \cdot HCl$   
 Molecular Weight: 182,65  
 CAS: 657-27-2  
 EEC-N: 211-519-9

**L(+)-Lysine monohydrochloride > RPE - For analysis****RPE**

Description ..... White powder Ammonium ..... ≤10 ppm Residue on ignition ..... ≤500 ppm Assay (argentimetric) ..... ≥99 %  
 Identification ..... Positive Total phosphorus ..... ≤5 ppm Total sulphur ..... ≤30 ppm  
 Specific optical rotation... +19.5 ÷ +21.5 ° Water-insoluble matter ..... ≤50 ppm Fe ..... ≤10 ppm  
 Loss on drying ..... ≤0.3 % Heavy metals (Pb) ..... ≤10 ppm Assay (ex nitrogen) ..... ≥99 %

Code	Size	Packaging	Notes
458122	25 g	Glass bottle	
458124	100 g	Plastic bottle	
458121	5 kg	Plastic tank	



## Magnesium, powder

• Magnesio, polvere • Magnésium, poudre • Magnesio, polvo • Magnesiumpulver

Mg

Molecular Weight: 24,31

CAS: 7439-95-4

EEC-N: 231-104-6

### Classification transport

ONU: 1869

Transport Hazard class: 4.1

Packing group III



### Danger

H228-H251-H261

P210-P223-P231a+P232-P241-P280-P402+P404

### Magnesium, powder > RPE - For analysis

RPE

Description ..... Grey powder Identification ..... Positive Titolo (AAS/CP) .....  $\geq 99\%$  (Mg)

Code	Size	Packaging	Notes
459066	500 g	Metallic can	



## Magnesium, ribbon

• Magnesio, nastro • Magnesium, rubans • Magnesio, tiras • Magnesiumbänder

Mg

Molecular Weight: 24,31

CAS: 7439-95-4

EEC-N: 231-104-6

### Classification transport

ONU: 1869

Transport Hazard class: 4.1

Packing group III



### Danger

H228-H251-H261

P210-P223-P231a+P232-P241-P280-P402+P404

### Magnesium, ribbon > RPE - For analysis

RPE

Description ..... Ribbon Identification ..... Positive Assay .....  $\geq 99\%$

Code	Size	Packaging	Notes
459044	100 g	Carton box	

Size ~ 0.2 x 3 mm



## Magnesium, turnings

• Magnesio, tornitura • Magnésium, tournures • Magnesio, virutas • Magnesium dreht sich um

Mg

Molecular Weight: 24,31

CAS: 7439-95-4

EEC-N: 231-104-6

### Classification transport

ONU: 1869

Transport Hazard class: 4.1

Packing group III



### Danger

H228-H251-H261

P210-P223-P231a+P232-P241-P280-P402+P404

### Magnesium, turnings > RPE - For analysis

RPE

Description ..... Silvery turnings Identification ..... Positive Other metals .....  $\leq 0.10\%$  Assay .....  $\geq 99.80\%$  (Mg)

Code	Size	Packaging	Notes
459085	250 g	Metallic can	

According to Grignard



## Magnesium standard solution

• Magnesio standard soluzione • Magnésium solution standard • Magnesio, solución patrón • Magnesiumstandardlösung



### Warning

H290

P234-P390-P406

### Magnesium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001801	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001801
615001802	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001802
615001803	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001803
615001809	100 ml	Plastic bottle	A 100 ppm solution: to dilute according to Ref Ph.Eur 5001800

**Magnesium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505712	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505715	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505713	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Magnesium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503711	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503713	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503715	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503717	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Magnesium standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
503718	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503719	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497535	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497531	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
507039	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Magnesium standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
458891		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

**Magnesium standard solution > RS - Standard solution for ion chromatography**

RS

Code	Size	Packaging	Notes
503291	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503293	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503390	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water and nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Magnesium acetate tetrahydrate

- Magnesio acetato tetraidrato • Magnésium acétate tétrahydraté • Magnesio acetato tetrahidratado
- Magnesiumacetat-Tetrahydrat

Synonym:  
Acetic acid magnesium salt

Mg(CH<sub>3</sub>COO)<sub>2</sub>·4H<sub>2</sub>O  
Molecular Weight: 214,46  
CAS: 16674-78-5  
EEC-N: 205-554-9

### Magnesium acetate tetrahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description .....	White crystalline powder	Sulphate .....	≤ 50 ppm	Fe .....	≤ 5 ppm	Sr .....	≤ 50 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤ 5 ppm	K .....	≤ 50 ppm	Assay (complexometric) .....	98.0 ÷ 102.0 %
Water-insoluble matter .....	≤ 50 ppm	Ba .....	≤ 10 ppm	Mn .....	≤ 10 ppm		
Chloride .....	≤ 10 ppm	Ca .....	≤ 100 ppm	Na .....	≤ 50 ppm		

Code	Size	Packaging	Notes
459135	250 g	Plastic bottle	
459137	1 kg	Plastic bottle	
459131	25 kg	Drum	



## Magnesium carbonate basic

- Magnesio carbonato basico • Magnésium carbonate basique • Magnesio carbonato básico
- Magnesiumcarbonat basisch

Synonym:  
Magnesium hydroxide carbonate

(MgCO<sub>3</sub>)<sub>4</sub>·Mg(OH)<sub>2</sub>·5H<sub>2</sub>O  
Molecular Weight: 485,69  
CAS: 39409-82-0  
EEC-N: 235-192-7

### Magnesium carbonate basic > RPE - For analysis

RPE

Description .....	Light white powder	Chloride .....	≤ 300 ppm	Ca .....	≤ 0.2 %	Pb .....	≤ 0.5 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤ 10 ppm	Cd .....	≤ 0.5 ppm	Loss on calcination .....	55.0 - 60.0 %
Water solubility .....	≤ 0.5 %	Sulphate .....	≤ 0.20 %	Fe .....	≤ 400 ppm	Assay (complexometric) .....	40.0 ÷ 45.0 % (MgO)
Insoluble in acetic acid .....	≤ 0.05 %	As .....	≤ 2 ppm	Hg .....	≤ 0.1 ppm		

Code	Size	Packaging	Notes
459285	250 g	Plastic bottle	
459287	1 kg	Plastic bottle	

### Magnesium carbonate basic > ERBApharm - According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description .....	White powder	Chloride .....	≤ 0.07 %	Acet.ac.not soluble ma. ....	≤ 0.05 %	Assay (Mg oxide) .....	40.0 ÷ 45.0 %
Identification .....	Positive	Heavy metals (Pb) .....	≤ 20 ppm	As .....	≤ 2 ppm		
Appearance of solution .....	Conform Ph.Eur.	Sulphate .....	≤ 0.3 %	Ca .....	≤ 0.75 %		
Apparent density .....	60 ÷ 150 g/l	Water-soluble subst. ....	≤ 1.0 %	Fe .....	≤ 0.04 %		

Code	Size	Packaging	Notes
349257	1 kg	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

### Magnesium carbonate basic > ERBApharm - According to pharmacopoeia: USP

ERBApharm

Description .....	White powder	Heavy metals (Pb) .....	≤ 30 ppm	As .....	≤ 4 ppm	Assay (Mg oxide) .....	40.0 ÷ 43.5 %
Identification .....	Positive	Soluble salts .....	≤ 1.0 %	Ca .....	≤ 0.45 %	Escherichia coli .....	Absent
Apparent density .....	400 ÷ 500 g/l	Acid not soluble matter .....	≤ 0.05 %	Fe .....	≤ 0.02 %		

Code	Size	Packaging	Notes
349279	5 kg	Plastic tank	
349272	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade. Heavy powder**

**Magnesium chloride hexahydrate**

• Magnesio cloruro esaidrato • Magnésium chlorure hexahydraté • Magnesio cloruro hexahidrato • Magnesiumchlorid-Hexahydrat

MgCl<sub>2</sub>·6H<sub>2</sub>O  
 Molecular Weight: 203,31  
 CAS: 7791-18-6  
 EEC-N: 232-094-6

**Magnesium chloride hexahydrate > RPE - For analysis - ACS - ISO****RPE**

Description .....	White crystals	Phosphate .....	≤5 ppm	Ba .....	≤50 ppm	Mn .....	≤5 ppm
Identification .....	Positive	Nitrate .....	≤10 ppm	Ca .....	≤100 ppm	Na .....	≤50 ppm
Water-insoluble matter .....	≤50 ppm	Sulphate .....	≤20 ppm	Fe .....	≤5 ppm	Sr .....	≤50 ppm
Ammonium .....	≤20 ppm	Heavy metals (Pb).....	≤5 ppm	K .....	≤50 ppm	Assay (complexometric) ....	99.0 ÷ 102.0 %

Code	Size	Packaging	Notes
459336	100 g	Plastic bottle	
459337	1 kg	Plastic bottle	
459331	5 kg	Plastic tank	
459332	25 kg	Plastic bucket	
459334	50 kg	Fibre drum	

**Magnesium chloride hexahydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-****ERBApharm**

BP

Description	Colourless hygroscopic crystals	Ba .....	Conform USP-NF	Sulphate .....	≤50 ppm	Assay (complexometric) ....	98.0 ÷ 101.0 %
Identification B .....	Positive	K .....	Conform USP-NF	Not soluble matter .....	≤50 ppm	Origin (BSE/TSE).....	Synthesis
Identification C .....	Positive	pH solution 5% .....	4.5 ÷ 7.0	Al .....	≤1 ppm	Residual solvents (Current ICH).....	Conform
Identification (I.R.).....	Positive	Water (K.F.) .....	51.0 ÷ 55.0 %	As .....	≤2 ppm		
Appearance of solution .....	Conform Ph.Eur.	Heavy metals (Pb).....	≤10 ppm	Ca .....	≤100 ppm		
Acidity or alkalinity.....	Conform Ph.Eur.	Bromide.....	≤500 ppm	Fe .....	≤10 ppm		

Code	Size	Packaging	Notes
349357	1 kg	Plastic bottle	
349359	5 kg	Plastic tank	
349355	25 kg	Drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Magnesium chloride hexahydrate > RE - Pure****RE**

Description .....	White crystalline powder	As .....	≤ 2 ppm	Cu .....	≤ 10 ppm	Pb .....	≤ 10 ppm
Identification .....	Positive	Al .....	≤ 1 ppm	Fe .....	≤ 5 ppm	Zn .....	≤ 10 ppm
Ammonium .....	≤ 50 ppm	Ba .....	≤ 20 ppm	K .....	≤ 3000 ppm	Assay (complexometric) ....	98.5 ÷ 101.5 %
Sulphate .....	≤ 100 ppm	Ca .....	≤ 1000 ppm	Na .....	≤ 5000 ppm		

Code	Size	Packaging	Notes
349377	1 kg	Plastic bottle	
349372	25 kg	Plastic bucket	

**Magnesium glycerophosphate**

• Magnesio glicerofosfato • Magnesium glycerophosphate • Magnesio glicerofosfato • Magnesiumglycerophosphat

Synonym:  
*DL-alpha-glycerol phosphate magnesium salt hydrate*

C<sub>3</sub>H<sub>7</sub>O<sub>2</sub>PO<sub>4</sub>Mg  
 Molecular Weight: 194,36  
 CAS: 927-20-8  
 EEC-N: 231-149-3

**Magnesium glycerophosphate > RE - Pure****RE**

Description .....	White crystalline powder	Residue on calcination.....	47 ÷ 52 %	Heavy metals (Pb).....	≤ 10 ppm	Assay (Mg).....	≥ 10.6 %
Identification .....	Positive	Glycerol-Alc.sol.impur.....	≤ 2 %	As .....	≤ 4 ppm		

Code	Size	Packaging	Notes
349407	1 kg	Plastic bottle	





## Magnesium hydrogen phosphate trihydrate

- Magnesio fosfato bibásico trihidrato • Magnesium phosphate dibasique trihydraté
- Magnesio fosfato dibásico trihidrato • Magnesium hydrogenphosphat Trihydrat

Synonym:

- Magnesium phosphate dibasic trihydrate
- Newberyite

MgHPO<sub>4</sub>·3H<sub>2</sub>O  
Molecular Weight: 174,34  
CAS: 7782-75-4

### Magnesium hydrogen phosphate trihydrate > RPE - For analysis

RPE

Description	White powder	HCl-insoluble matter	≤500 ppm	Cu	≤50 ppm	Pb	≤50 ppm
Identification	Positive	Sulphate	≤ 60 ppm	Fe	≤50 ppm	Assay (complexometric)	97 ± 100 %
Chloride	≤100 ppm	As	≤1 ppm	Ni	≤ 50 ppm		

Code	Size	Packaging	Notes
459435	250 g	Plastic bottle	
459437	1 kg	Plastic bottle	



## Magnesium hydroxide

- Magnesio idrossido • Magnésium hydroxyde • Magnesio hidróxido • Magnesiumhydroxid

Mg(OH)<sub>2</sub>  
Molecular Weight: 58,33  
CAS: 1309-42-8  
EEC-N: 215-170-3



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Magnesium hydroxide > ERBAPharm - According to pharmacopeia: BP-FU-Ph.Eur.-Ph.Franc.

ERBAPharm

Description	White powder	Chloride	≤ 0.1 %	Acet.ac.not soluble ma.	≤ 0.1 %	Assay (complexometric)	95.0 ÷ 100.5 %
Identification	Positive	Heavy metals (Pb)	≤ 30 ppm	As	≤ 4 ppm		
Appearance of solution	Conform Ph.Eur.	Sulphate	≤ 1.0 %	Ca	≤ 1.5 %		
Loss on ignition	29.0 ÷ 32.5 %	Soluble matter	≤ 2.0 %	Fe	≤ 0.07 %		

Code	Size	Packaging	Notes
349455	1 kg	Plastic bottle	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

## Magnesium hydroxide carbonate ▶ Magnesium carbonate basic



## Magnesium nitrate hexahydrate

- Magnesio nitrato esaidrato • Magnésium nitraté hexahydraté • Magnesio nitrato hexahidratado • Magnesiumnitrat-Hexahydrat

Mg(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 256,41  
CAS: 13446-18-9  
EEC-N: 233-826-7

### Classification transport

ONU: 1474  
Transport Hazard class: 5.1  
Packing group III



### Danger

H272-H319  
P210-P220-P264-P280-P305+P351+P338-  
P337+P313

### Magnesium nitrate hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description	White crystals	Chloride	≤10 ppm	Ca	≤100 ppm	Sr	≤50 ppm
Identification	Positive	Phosphate	≤5 ppm	Fe	≤5 ppm	Assay (complexometric)	98.0 ÷ 102.0 %
pH sol. 5% at 25° C	5.0 ÷ 8.2	Sulphate	≤50 ppm	K	≤50 ppm		
Water-insoluble matter	≤50 ppm	Heavy metals (Pb)	≤5 ppm	Mn	≤5 ppm		
Ammonium	≤30 ppm	Ba	≤50 ppm	Na	≤50 ppm		

Code	Size	Packaging	Notes
459535	100 g	Plastic bottle	
459536	500 g	Plastic bottle	
459537	1 kg	Plastic bottle	

### Magnesium nitrate hexahydrate > RE - Pure

RE

Description	White or yellowish pellets	Identification	Positive	Fe	≤ 10 ppm	Assay (complexometric)	≥ 96 %
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Code	Size	Packaging	Notes
349557	1 kg	Plastic bottle	

**Magnesium nitrate 10 g/l solution**

• Magnesio nitrato 10 g/l soluzione • Magnésium nitrato 10 g/l • Magnesio nitrato solución 10 g/l • Magnesiumnitrat 10 g/l

HEU210

**Magnesium nitrate 10 g/l solution > RS - Matrix modifiers for AAS-GTA**

RS

Code	Size	Packaging	Notes
503196	50 ml	Plastic bottle	Matrix: Water

**Magnesium oxide**

• Magnesio ossido • Magnésium oxyde • Magnesio óxido • Magnesiumoxid

MgO  
 Molecular Weight: 40,31  
 CAS: 1309-48-4  
 EEC-N: 215-171-9

**Magnesium oxide > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611049901	100 g	Bottle	

**Magnesium oxide > RS - For chromatography**

RS

Description ..... White powder Identification ..... Positive

Code	Size	Packaging	Notes
459617	1 kg	Plastic bottle	

**Magnesium oxide > RPE - For analysis**

RPE

Description ..... White powder Assay (complexometric) .....  $\geq 99\%$  Sulphat + sulphit (SO<sub>4</sub>) .....  $\leq 0.25\%$  Na .....  $\leq 0.1\%$   
 Identification ..... Positive Chloride .....  $\leq 0.25\%$  Ca .....  $\leq 0.3\%$   
 Loss on ignition .....  $\leq 2\%$  Silicate .....  $\leq 500$  ppm Fe .....  $\leq 400$  ppm

Code	Size	Packaging	Notes
459584	100 g	Plastic bottle	
459586	500 g	Plastic bottle	
459587	1 kg	Plastic bottle	

**Magnesium oxide heavy**

• Magnesio ossido pesante • Magnésium oxyde lourde • Magnesio óxido pesado • Magnesiumoxid schwer

MgO  
 Molecular Weight: 40,31  
 CAS: 1309-48-4  
 EEC-N: 215-171-9

**Magnesium oxide heavy > ERBApharm - According to pharmacopoeia: Ph.Eur.**

ERBApharm

Description ..... White powder Loss on ignition .....  $\leq 8.0\%$  Soluble matter .....  $\leq 2.0\%$  Fe .....  $\leq 0.07\%$   
 Identification ..... Positive Chloride .....  $\leq 0.1\%$  Acet.ac.not soluble ma. ....  $\leq 0.1\%$  Assay (complexometric) ....  $98.0 \div 100.5\%$   
 Appearance of solution ..... Conform Ph.Eur. Heavy metals (Pb) .....  $\leq 30$  ppm As .....  $\leq 4$  ppm Calc.  
 Apparent density .....  $\geq 0.25$  g/ml Sulphate .....  $\leq 1.0\%$  Ca .....  $\leq 1.5\%$

Code	Size	Packaging	Notes
349655	1 kg	Plastic bottle	
349656	5 kg	Plastic tank	
349653	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Magnesium perchlorate

• Magnesio perclorato • Magnesium perchlorate • Magnesio perclorato • Magnesiumperchlorat

Mg(ClO<sub>4</sub>)<sub>2</sub>  
Molecular Weight: 223,21  
CAS: 10034-81-8  
EEC-N: 233-108-3

**Classification transport**  
ONU: 1475  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H315-H319-H335  
P210-P261-P280-P304+P340-P305+P351+P338-P403+P233

### Magnesium perchlorate > RPE - For analysis

**RPE**

Description White crystalline powder or flakes and/or chunks    Loss on drying (190°C)..... ≤ 8 %    Titrable base..... ≤ 0.025 meq/g  
Identification ..... Positive    Titrable free acid ..... ≤ 0.005 meq/g    Suitability (for moisture absorption)..... Passes tests

Code	Size	Packaging	Notes
422254	100 g	Glass bottle	
422251	250 g	Glass bottle	
422252	1 kg	Glass bottle	



## Magnesium peroxide

• Magnesio perossido • Magnésium péroxyde • Magnesio peróxido • Magnesiumperoxid

MgO<sub>2</sub>  
Molecular Weight: 56,3  
CAS: 14452-57-4  
EEC-N: 238-438-1

**Classification transport**  
ONU: 1476  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272  
P210-P220-P280-P370+P378a-P501a

### Magnesium peroxide > RE - Pure

**RE**

Description ..... White powder    Identification ..... Positive    Assay (oxidimetric) ..... ≥15 %

Code	Size	Packaging	Notes
349757	1 kg	Plastic bottle	
349753	25 kg	Drum	

## Magnesium phosphate dibasic trihydrate ▶ Magnesium hydrogen phosphate trihydrate



## Magnesium stearate

• Magnesio stearato • Magnésium stéarate • Magnesio estearato • Magnesiumstearat

Synonym:  
Stearic acid magnesium salt

[CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>CO<sub>2</sub>]<sub>2</sub>Mg  
Molecular Weight: 591,27  
CAS: 557-04-0  
EEC-N: 209-150-3

### Magnesium stearate > ERBapharm - Vegetal origin-According to pharmacopoeia: Ph.Eur.-BP-FU-NF

**ERBapharm**

Description ..... White powder    Stearic+Palmitic acid ..... ≥ 90.0 %    Pb ..... ≤ 10 ppm    Escherichia coli ..... Absent  
Identification ..... Positive    Chloride..... ≤ 0.1 %    Assay (magnesium) ..... 4.0 ÷ 5.0 % s.s.    Salmonella..... Absent  
Acidity or alkalinity..... Conform Ph.Eur.    Sulphate ..... ≤ 1.0 %    Microbial tests  
Loss on drying ..... ≤ 6.0 %    Cd ..... ≤ 3 ppm    TAMC ..... ≤ 1000 CFU/g  
Stearic acid..... ≥ 40.0 %    Ni ..... ≤ 5 ppm    TYMC ..... ≤ 100 CFU/g

Code	Size	Packaging	Notes
350032	2.5 kg	Plastic bottle	
350033	20 kg	Fibre drum	
350035	25 kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**





## Maize starch

• Amido di mais • Amidon de maïs • Almidón de maiz • Maisstärke

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
CAS: 9005-84-9  
EEC-N: 232-686-4

### Maize starch > ERBApharm - According to pharmacopoeia: BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBApharm

Description .....	White or yellowish powder	pH at 20° C .....	4.0 ÷ 7.0	Fe .....	≤ 10 ppm	Escherichia coli .....	Absent Ph.Eur.
Identification .....	Positive	Loss on drying .....	≤ 15.0 %	Microbial tests		Salmonella .....	Absent Ph. Eur.
Zolfo diossido .....	≤ 50 ppm	Sulphated ash .....	≤ 0.6 %	TAMC .....	≤ 1000 CFU/g		
Foreign cellular elem. ....	Conform Ph.Eur.	Oxidizing substances .....	≤ 20 ppm	TYMC .....	≤ 100 CFU/g		

Code	Size	Packaging	Notes
313071	1 kg	Plastic bottle	
313072	5 kg	Plastic tank	
313073	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Malachite green

• Verde malachite • Vert de malachite • Verde de malaquita • Malachitgrün

Synonym:  
Basic green 4

C<sub>23</sub>H<sub>25</sub>ClN<sub>2</sub>  
Molecular Weight: 364,92  
CAS: 569-64-2  
EEC-N: 209-322-8

### Classification transport

ONU: 3143  
Transport Hazard class: 6.1  
Packing group III



### Danger

H302-H318-H361d-H410  
P264-P280-P301+P312a-P305+P351+P338-P310a-P308+P313

### Malachite green > RS - For microscopy - C.I. 42000

RS

Description .....

Green shining crystals

Identification .....

Positive

Code	Size	Packaging	Notes
491303	25 g	Glass bottle	
491304	100 g	Plastic bottle	

**Dye for cytology**



## Malachite green solution 0.5% in acetic acid anhydrous

• Verde malachite soluzione 0.5% in acido acetico anidro  
• Vert malachite solution 0.5% dans l'acide acétique anhydre  
• Verde de malaquita solución 0.5% en acido acético anhidro  
• Grüne Malachitlösung 0.5% in wasserfreier Essigsäure

Synonym:  
Basic green 4

### Classification transport

ONU: 3264

### Malachite green solution 0.5% in acetic acid anhydrous > RS - For analysis according to Ph. Eur. Chap.

RS

4.1.1

Code	Size	Packaging	Notes
611050501	1 l	Glass bottle	Ref Ph.Eur 1050501

**Maleic acid**

• Acido maleico • Acide maléique • Acido maleico • Maleinsäure

## Synonym:

• *cis-Butenedioic acid*  
• *Toxic acid*HOOCCH:CHCOOH  
Molecular Weight: 116,07  
CAS: 110-16-7  
EEC-N: 203-742-5**Classification transport**  
ONU: 3261  
Transport Hazard class: 8  
Packing group III**Warning**H302-H315-H319-H317-H335  
P261-P271-P304+P340-P305+P351+P338-  
P337+P313-P403+P233**Maleic acid > ERBapharm - According to pharmacopoeia: BP-Ph.Eur.-USP-NF****ERBapharm**Description ..... White crystalline powder  
Identification ..... Positive  
Appearance of solution ..... Conform Ph.Eur.  
Fumaric acid ..... Conform Ph.Eur.  
Melting point ..... 132 ÷ 135 °C  
Water (K.F.) ..... ≤2.0 %  
Sulphated ash ..... ≤0.1 %  
Heavy metals (Pb) ..... ≤10 ppm  
Fe ..... ≤5 ppm  
Assay (acidimetric) ..... 99.0 ÷ 101.0 % s s  
Origin (BSE/TSE) ..... Synthesis  
Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
407266	500 g	Plastic bottle	
407261	5 kg	Plastic tank	
407263	25 kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Maleic anhydride**

• Anidride maleica • Anhydride maléique • Anhidrido maleico • Maleinsäureanhydrid

## Synonym:

• *2,5-Furandione*OCOCH:CHCO  
Molecular Weight: 98,06  
CAS: 108-31-6  
EEC-N: 203-571-6**Classification transport**  
ONU: 2215  
Transport Hazard class: 8  
Packing group III**Danger**H302-H314-H334-H317  
P280-P284-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P362+P364-  
P342+P311a**Maleic anhydride > RPE - For analysis****RPE**Description ..... White flakes  
Identification ..... Positive  
Melting point ..... 52 ÷ 55 °C  
Acido maleico libero ..... ≤ 0.5 %  
Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
421955	250 g	Plastic bottle	

**DL-Malic acid**

• Acido DL-malico • Acide DL-malique • Acido DL-málico • DL-Apfelsäure

## Synonym:

• *(±)-2-Hydroxysuccinic acid*  
• *DL-Hydroxybutanedioic acid*HOOCCH(OH)CH<sub>2</sub>COOH  
Molecular Weight: 134,09  
CAS: 617-48-1  
EEC-N: 210-514-9**Warning**H319  
P264-P280i-P305+P351+P338-P337+P313**DL-Malic acid > RPE - For analysis****RPE**Description ..... White crystalline powder  
Identification ..... Positive  
Water-insoluble matter ..... ≤ 0.1 %  
Melting point ..... 130 ÷ 132 °C  
Water ..... ≤ 0.3 %  
Chloride ..... ≤ 5 ppm  
Heavy metals (Pb) ..... ≤ 20 ppm  
Sulphated ash ..... ≤ 0.05 %  
As ..... ≤ 3 ppm  
Pb ..... ≤ 10 ppm  
Assay (acidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
407314	100 g	Plastic bottle	
407316	500 g	Plastic bottle	



**Malonic acid**

• Acido malonico • Acide malonique • Acido malónico • Malonsäure

Synonym:  
*Propanedioic acid*

HOOCCH<sub>2</sub>COOH  
 Molecular Weight: 104,06  
 CAS: 141-82-2  
 EEC-N: 205-503-0

**Warning**

H302-H319  
 P264-P280i-P301+P312a-P305+P351+P338-  
 P337+P313-P501a

**Malonic acid > RPE - For analysis****RPE**

Description ..... White crystalline powder    Melting point..... 133 ÷ 136 °C    Assay (acidimetric) ..... ≥ 98.5 %    Sulphate ..... ≤ 0.1 %  
 Identification ..... Positive    Chloride..... ≤ 100 ppm    Residue on ignition ..... ≤ 0.5 %

Code	Size	Packaging	Notes
407363	50 g	Glass bottle	

**Maltose monohydrate**

• Maltosio monoidrato • Maltose monohydraté • Maltosa monohidrato • Maltose-Monohydrat

Synonym:  
*4-O-α-D-Glucopyranosyl-D-glucose*

C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O  
 Molecular Weight: 360,32  
 CAS: 6363-53-7  
 EEC-N: 200-716-5

**Maltose monohydrate > RPE - For analysis****RPE**

Description ..... Whitish powder    Potere rotat. spec. (C=2; H<sub>2</sub>O 24h) ..... 130 ± 3 °    Melting point..... ca. 120 °C (dec)  
 Identification ..... Positive    Water ..... ≤ 7.5 %    Assay ..... ≥ 94.0 %

Code	Size	Packaging	Notes
459863	50 g	Glass bottle	
459865	250 g	Plastic bottle	

**Maltose monohydrate > RE - Pure****RE**

Description ..... White crystalline powder    Water ..... ≤ 7 %    Assay ..... ≥ 92 %  
 Identification ..... Positive    Sulphated ash ..... ≤ 0.1 %

Code	Size	Packaging	Notes
350401	25 kg	Plastic bucket	

**D(-)Mandelic acid**

• Acido D(-)mandelico • Acide D(-)mandélique • Acido D(-)mandélico • D (-) Mandelsäure

Synonym:  
*(R)-alpha-hydroxyphenylacetic acid*

C<sub>6</sub>H<sub>5</sub>CH(OH)COOH  
 Molecular Weight: 152,15  
 CAS: 611-71-2  
 EEC-N: 210-276-6

**D(-)Mandelic acid > RPE - For analysis****RPE**

Description ..... White crystalline powder    Melting point..... 133 ÷ 135 °C    ÷ -153.4 °  
 Identification ..... Positive    Potere rotator. spec.(C=2 in Acqua)-155.4

Code	Size	Packaging	Notes
407421	25 g	Glass bottle	

**Manganese electrolytic**

• Manganese elettrolitico • Manganèse électrolytique • Manganeso electrolítico • Elektrolytisches Mangan

Mn  
 Molecular Weight: 54,94  
 CAS: 7439-96-5  
 EEC-N: 231-105-1

**Manganese electrolytic > RPE - For analysis****RPE**

Description ..... Brown irregular flakes Identification ..... Positive Assay ..... 99.9 ÷ 100.0 %

Code	Size	Packaging	Notes
459965	250 g	Glass bottle	

**Manganese standard solution**

• Manganese standard soluzione • Manganèse solution standard • Manganeso, solución patrón • Mangan-Standardlösung

**Classification transport**

ONU: 3264  
 Transport Hazard class: 8  
 Packing group II

**Danger**

H290-H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

**Manganese standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615004500	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5004500
615005800	1 l	Plastic bottle	A 1.000 ppm solution Ref Ph.Eur 5005800

**Manganese standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505717	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505718	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505719	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Manganese standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503721	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503723	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503725	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503727	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Manganese standard solution > RS - Standard solution for AAS****RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507746	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507488	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497545	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497541	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Manganese standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
459911		Plastic ampoule	conc. 1.000 ppm Matrix: Hydrochloric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Manganese standard solution > RS - Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504362	50 ml	Glass bottle	conc. 20 ppb - Matrix: 2% Nitric acid



## Manganese (II) acetate tetrahydrate

- Manganese acetato oso tetraidrato • Manganèse (II) acétate tetrahydrate
- Manganeso (II) acetato tetraidrato • Mangan (II) acetat Tetrahydtrat

Synonym:  
Manganous acetate

$Mn(CH_3COO)_2 \cdot 4H_2O$   
Molecular Weight: 245,09  
CAS: 6156-78-1



### Warning

H315-H319-H361-H335  
P261-P271-P280-P304+P340-P305+P351+P338-  
P403+P233

## Manganese (II) acetate tetrahydrate > RPE - For analysis

RPE

Description ..... Light pink crystals Insoluble matter in water ..... ≤ 0.01 % Fe ..... ≤ 50 ppm  
pH sol. 5% ..... 6 - 7 Chloride ..... ≤ 20 ppm Cu ..... ≤ 5 ppm  
Assay (complexometry) ..... ≥ 99.0 % Sulfate ..... ≤ 50 ppm Ni ..... ≤ 20 ppm

Code	Size	Packaging	Notes
460005	250 g	Plastic bottle	
460007	1 kg	Plastic bottle	
460001	25 kg	Plastic bucket	



## Manganese (II) chloride tetrahydrate

- Manganese cloruro oso tetraidrato • Manganèse (II) chlorure tetrahydrate • Manganeso (II) cloruro tetrahidratado • Mangan (II) chlorid Tetrahydtrat

$MnCl_2 \cdot 4H_2O$   
Molecular Weight: 197,91  
CAS: 13446-34-9



### Warning

H302  
P264-P270-P301+P312a-P330-P501a

## Manganese (II) chloride tetrahydrate > RPE - For analysis

RPE

Description ..... Pink crystalline powder % Fe ..... ≤ 5 ppm Zn ..... ≤ 10 ppm  
Identification ..... Positive Sulphate ..... ≤ 50 ppm Mg ..... ≤ 50 ppm Assay ..... ≥ 99 %  
Substances reducing  $KMnO_4$  (0) ..... ≤ 0.0005 Ca ..... ≤ 10 ppm Pb ..... ≤ 5 ppm

Code	Size	Packaging	Notes
460158	100 g	Plastic bottle	
460156	500 g	Plastic bottle	
460159	1 kg	Plastic bottle	

## Manganese (II) chloride tetrahydrate > RE - Pure

RE

Description ..... Pink crystals Water-insoluble matter ..... ≤ 500 ppm Fe ..... ≤ 50 ppm  
Identification ..... Positive Sulphate ..... ≤ 500 ppm Assay (complexometric) ..... ≥ 98 %

Code	Size	Packaging	Notes
351507	1 kg	Plastic bottle	
351508	5 kg	Plastic tank	
351502	25 kg	Plastic bucket	

**Manganese (II) sulfate monohydrate**

• Manganese solfato oso monoidrato • Manganèse (II) sulfate monohydraté • Manganeso (II) sulfato monohidrato • Mangan(II) sulfat Monohydrat

MnSO<sub>4</sub>·H<sub>2</sub>O  
 Molecular Weight: 162,09  
 CAS: 10034-96-5  
 EEC-N: 232-089-9

**Warning**

H373-H411  
 P260-P273-P314-P391-P501a

**Manganese (II) sulfate monohydrate > RPE - For analysis - ACS****RPE**

Description .....	Pink powder	Subst. reducing KMnO <sub>4</sub> .....	Conform	Fe .....	≤20 ppm	Ni.....	≤200 ppm
Identification .....	Positive	Chloride.....	≤50 ppm	K.....	≤100 ppm	Zn.....	≤50 ppm
Loss on ignition.....	10.0 ÷ 12.0 %	Heavy metals (Pb).....	≤20 ppm	Mg.....	≤50 ppm	Assay (complexometric) ....	98.0 ÷ 101.0 %
Water-insoluble matter .....	≤100 ppm	Ca.....	≤50 ppm	Na.....	≤500 ppm	Mn.....	31.8 - 32.8 %

Code	Size	Packaging	Notes
460305	250 g	Plastic bottle	
460307	1 kg	Plastic bottle	

**Manganese (II) sulfate monohydrate > RE - Pure****RE**

Description .....	Polvere rosata	Water-insoluble matter .....	≤ 500 ppm	As .....	≤ 5 ppm	Mn .....	≥ 31.8 %
Identification .....	Positive	Pb.....	≤ 15 ppm	Assay (complexometric) .....	≥ 98 %		

Code	Size	Packaging	Notes
352007	1 kg	Plastic bottle	
352008	5 kg	Plastic tank	
352002	25 kg	Plastic bucket	

**Manganese (IV) oxide**

• Manganese biossido • Manganèse (IV) dioxyde • Manganeso (IV) dióxido • Mangan (IV) dioxid

Synonym:  
*Manganese dioxide*

MnO<sub>2</sub>  
 Molecular Weight: 86,94  
 CAS: 1313-13-9  
 EEC-N: 215-202-6

**Warning**

H302-H332  
 P261-P264-P271-P301+P312a-P304+P340-P501a

**Manganese (IV) oxide > RPE - For analysis****RPE**

Description .....	Black powder	Identification .....	Positive	Loss on drying 120° C.....	≤1.5 %	Assay (oxidimetric) .....	≥90.0 %
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Code	Size	Packaging	Notes
460055	250 g	Plastic bottle	
460056	1 kg	Plastic bottle	
460052	25 kg	Plastic bucket	

**D-Mannitol**

• D-Mannitolo • D-Mannitol • D-Manitol • D - Mannit

Synonym:  
*Mannite*

CH<sub>2</sub>OH(CHOH)<sub>4</sub>CH<sub>2</sub>OH  
 Molecular Weight: 182,17  
 CAS: 69-65-8  
 EEC-N: 200-711-8

**D-Mannitol > RPE - For analysis****RPE**

Description .....	White crystal. powder	Power rotat. specif. at 25 ° C (dry) +23.3 ÷ +24.3 °	Acidity (acetic acid).....	≤50 ppm	Residue on ignition.....	≤100 ppm	
Identification (I.R.).....	Positive	Loss on drying 105°C.....	≤ 0.05 %	Water-insoluble matter .....	≤100 ppm	Red.ing sugars(Glucose) .....	≤0.1 %
Melting point.....	165 ÷ 167 ° C			Heavy metals (Pb).....	≤5 ppm	Assay (oxidimetric) .....	98.5 ÷ 101.5 %

Code	Size	Packaging	Notes
460355	250 g	Plastic bottle	
460357	1 kg	Plastic bottle	
460352	5 kg	Plastic tank	
460353	25 kg	Plastic bucket	

## D-Mannitol > ERBapharm - According to pharmacopoeia: Ph.Eur.-USP-FU-JP

**ERBapharm**

Description .....	White crystalline powder	Reducing sugar .....	≤ 0.1 %	Residue on ignition .....	≤ 100 ppm	Total impurities (HPLC) .....	≤ 2.0 %
Appearance of solution .....	Conform Ph.Eur.	Conductivity .....	≤ 20 µS.cm-1	Identification (I.R.) .....	Positive	Loss on drying 105°C .....	≤ 0.3 %
Acidity .....	Conform USP-NF	Microbial tests		Identification D .....	Positive	Specific optical rotation at 20°C (anh.) .....	+23 ÷ +24 °
Melting point .....	165 ÷ 167 °C	TAMC .....	≤ 1000 CFU/g	Related substances			
Heavy metals (Pb) .....	≤ 5 ppm	TYMC .....	≤ 100 CFU/g	Impurity A (HPLC) .....	≤ 2.0 %		
Ni .....	≤ 1 ppm	Escherichia coli .....	Absent Ph. Eur.	Impurities B+C (HPLC) .....	≤ 2.0 %		
Assay (anhydrous) (HPLC) .....	97.0 ÷ 102.0 %	Salmonella .....	Absent Ph. Eur.	Other impurities (HPLC) .....	≤ 0.10 %		

Code	Size	Packaging	Notes
352051	1 kg	Plastic bottle	
352052	5 kg	Plastic tank	
352053	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Mascagnite ▶ Ammonium sulfate



### May Grünwald reagent

• May Grünwald reattivo • Réactif de May Grünwald • May Grünwald reattivo • Reagenz von Mai Grünwald

#### Classification transport

ONU: 1992  
Transport Hazard class: 3  
Packing group II



#### Danger

H225-H301-H370  
P210-P241-P280-P301+P310a-P303+P361+P353-P403+P235

## May Grünwald reagent > RS - For hematology

**RS**

Description .....	Blue clear liquid	pH (20% in water) .....	5.4 ÷ 7.5	E 1% / 1 cm a 552 nm .....	30 ÷ 40	Functionality .....	Conform
Identification .....	Positive	E 1% / 1 cm a 522 nm .....	130 ÷ 180	E 1% / 1 cm a 650 nm .....	250 ÷ 350		

Code	Size	Packaging	Notes
460584	100 ml	Plastic bottle	In Vitro Diagnostic Medical Device
E460582	6 x 100 ml	Plastic bottle	In Vitro Diagnostic Medical Device
460586	500 ml	Plastic bottle	In Vitro Diagnostic Medical Device
E460583	6 x 500 ml	Plastic bottle	In Vitro Diagnostic Medical Device
460581	2.5 l	Plastic bottle	In Vitro Diagnostic Medical Device
E460585	4 x 2.5 l	Plastic bottle	In Vitro Diagnostic Medical Device

**Dye according to Pappenheim hematology**



### Mayer's reagent

• Mayer reattivo soluzione in acqua • Réactif de Mayer • Mayer reattivo solución en agua • Reagenz von Mayer

#### Classification transport

ONU: 2024  
Transport Hazard class: 6.1  
Packing group II



#### Danger

H300-H315-H319-H341-H373-H412  
P280-P301+P310a-P305+P351+P338-P308+P313-P332+P313-P337+P313

## Mayer's reagent > RS - For alkaloids detection

**RS**

Description .....	Yellow clear liquid	Identification .....	Positive
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Code	Size	Packaging	Notes
460502	500 ml	Plastic bottle	

## MEK ▶ Ethyl methyl ketone

**Melting point standards**

• Punto di fusione standard • Standards of point de fusion • Patrones de puntos de fusión • Schmelzpunktstandards

CH<sub>3</sub>CONHC<sub>6</sub>H<sub>5</sub>  
 Molecular Weight: 135,17  
 CAS: 103-84-4  
 EEC-N: 203-150-7

**Warning**

H302  
 P264-P270-P301+P312a-P330-P501a

**Melting point standards > RS - For calibration****RS**

Code	Size	Packaging	Notes
540001	1 g	Bottle	Benzophenone 47 to 49°C
540002	1 g	Bottle	p-Nitrotoluene 52 to 54°C
540003	1 g	Bottle	Vanillin 81 to 83°C
540014	1 g	Bottle	Acetanilide 113 to 116°C
540004	1 g	Bottle	Benzoic Acid 121 to 123°C
540005	1 g	Bottle	Phenacetin 133 to 135°C
540006	1 g	Bottle	Salicylic Acid 158 to 160°C
540007	1 g	Bottle	Sulfanilamide 164 to 166°C
540008	1 g	Bottle	Caffeine 235 to 238°C
540009	1 g	Bottle	Carbazole 243 to 247°C
540010	1 g	Bottle	Anthraquinone 283 to 286°C
540011	3 x 1 g	Bottle	Set Sulphanilamide Caffeine Vanillin
540012	3 x 1 g	Bottle	Set Benzophenone (4749°C) Benzoic Acid (121-123°C) Anthraquinone (283-286°C)
540013	3 x 1 g	Bottle	Set Vanillin (81-83°C) Phenacetin (134-136°C) Caffeine (235-237°C)

**L-Menthol**

• L-Mentolo • L-Menthol • L-Mentol • L-Mentholl

Synonym:

5-Methyl-2-(1-methylethyl)cyclohexanol

C<sub>10</sub>H<sub>19</sub>OH  
 Molecular Weight: 156,27  
 CAS: 2216-51-5  
 EEC-N: 218-690-9

**Warning**

H319  
 P264-P280i-P305+P351+P338-P337+P313

**L-Menthol > ERBapharm - According to pharmacopoeia: USP****ERBapharm**

Description ..... Colourless crystals      Specific optical rotation ..... -51 ÷ -45 °      Nonvolatil residue ..... ≤ 0.05 %      Total impurities (GC) ..... ≤ 2.0 %  
 Identification ..... Positive      Melting point ..... 41 ÷ 44 °C      Related compounds ..... Conform USP-NF      Individual impurities (GC) ..... ≤ 0.3 %

Code	Size	Packaging	Notes
352103	50 g	Glass bottle	
352106	500 g	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****2-Mercaptoethanol**

• 2-Mercaptoetanolo • 2-Mercaptoéthanol • 2-Mercaptoetanol • 2-Mercaptoethanol

Synonym:

• Thioethylene glycol  
 • 2-Hydroxyethylmercaptan

HSCH<sub>2</sub>CH<sub>2</sub>OH  
 Molecular Weight: 78,13  
 CAS: 60-24-2  
 EEC-N: 200-464-6

**Classification transport**

ONU: 1750  
 Transport Hazard class: 6.1  
 Packing group II

**Danger**

H301-H310-H314-H411  
 P280-P301+P310a-P301+P330+P331-  
 P303+P361+P353-P304+P340-P305+P351+P338

**2-Mercaptoethanol > RPE - For analysis****RPE**

Description ..... Clear colourless liquid      Refractive index at 20° C ..... 1.4990 ÷ 1.5020      Assay (GLC) ..... ≥ 98.5 %  
 Identification ..... Positive      Water ..... ≤ 0.5 %

Code	Size	Packaging	Notes
460691	10 ml	Glass bottle	





## Mercuric bromide paper

• Carta al bromuro mercurico • Papier bromure mercurique • Mercurio bromuro papel • Quecksilberbromidpapier

**Classification transport**  
 ONU: 3082  
 Transport Hazard class: 9  
 Packing group III



**Warning**  
 H302-H332-H373-H411  
 P260-P264-P271-P301+P312a-P304+P340-P501a

### Mercuric bromide paper > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611052101	50 pc	Glass bottle	Ref Ph.Eur 1052101

**Storage: in a glass-stoppered container wrapped with black paper**



## Mercury standard solution

• Mercurio standard soluzione • Mercure solution standard • Mercurio, solución patrón • Quecksilber-Standardlösung

### Mercury standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001901	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5001901
615001900	1 l	Plastic bottle	A 1000 ppm solution Ref Ph.Eur 5001900

### Mercury standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505652	100 ml	Plastic bottle	conc. 10 ppm Matrix: Nitric acid
505655	100 ml	Plastic bottle	conc. 100 ppm Matrix: Hydrochloric acid
506918	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505654	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Mercury standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503631	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503633	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503635	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503637	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Mercury standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
497555	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
497551	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503640	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507489	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Mercury standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
460741		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package****Mercury standard solution > RS - Quality control standard solution for AAS (graphite furnace)**

RS

Code	Size	Packaging	Notes
504370	100 ml	Plastic bottle	conc. 0.5 ppm - Matrix: 2% Nitric acid

**Mercury (I) chloride**

• di-Mercurio dicloruro • Mercure (I) chlorure • Mercure (I) chlorure • Quecksilber (I) chlorid

Synonym:

- Calomel
- Mercurous chloride

Hg<sub>2</sub>Cl<sub>2</sub>

Molecular Weight: 472,09

CAS: 10112-91-1

EEC-N: 233-307-5

**Warning**H302-H315-H319-H335-H410  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233**Mercury (I) chloride > RE - Pure**

RE

Description ..... White crystalline powder Residue on ignition ..... ≤ 0.02 % Assay ..... ≥ 99.5 %  
Identification ..... Positive Sulphate ..... ≤ 0.01 %

Code	Size	Packaging	Notes
352654	100 g	Glass bottle	
352657	1 kg	Plastic bottle	

**Mercury chloride solution 54 g/l**

• Mercurio cloruro soluzione 54 g/l • Mercure (II) chlorure solution • Mercurio (II) dicloruro solución 54 g/l • Quecksilber (II) chloridlösung

Synonym:

Mercuric chloride

**Classification transport**ONU: 2024  
Transport Hazard class: 6.1  
Packing group II**Danger**H300-H310-H314-H341-H361f-H372-H410  
P280-P301+P310a-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338**Mercury chloride solution 54 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611052201	100 ml	Plastic bottle	Ref Ph.Eur 1052201

**Mercury (II) chloride**

• Mercurio dicloruro • Mercure (II) chlorure • Mercurio (II) dicloruro • Quecksilber (II) chlorid

Synonym:

Mercuric chloride

HgCl<sub>2</sub>

Molecular Weight: 271,5

CAS: 7487-94-7

EEC-N: 231-299-8

**Classification transport**ONU: 1624  
Transport Hazard class: 6.1  
Packing group II**Danger**H300-H310-H314-H341-H361f-H372-H410  
P280-P301+P310a-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338**Mercury (II) chloride > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP**

RPE

Description ..... Pezzi bianchi Residue after reduction ..... ≤200 ppm Appearance of solution ..... Conform Loss on drying ..... ≤1.0 %  
Identification ..... Positive Fe ..... ≤20 ppm Acidity or alkalinity ..... Conform  
Solution in ethyl ether ..... Conform Assay (complexometric) 99.5 ÷ 100.5 % s.s. Mercurous chloride ..... Conform

Code	Size	Packaging	Notes
461003	50 g	Glass bottle	

**Mercury (II) iodide**  
 • Mercurio ioduro ico • Mercure (II) iodure • Mercurio (II) yoduro • Quecksilber (II) iodid  
 Synonym: *Mercuric iodide red*

HgI <sub>2</sub> Molecular Weight: 454,45 CAS: 7774-29-0 EEC-N: 231-873-8	<b>Classification transport</b> ONU: 1638 Transport Hazard class: 6.1 Packing group II		<b>Danger</b> H300-H310-H330-H373-H410 P271-P284-P301+P310a-P304+P340-P361+P364-P403+P233
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**Mercury (II) iodide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP**

**RPE**

Description .....Red - brick powder	Solub. in KI solution..... Conform	Mercurous compounds.....≤0.1 %
Identification ..... Positive	Soluble mercury salts..... ≤500 ppm	Assay (oxidimetric)..... ≥99.0 % s.s.

Code	Size	Packaging	Notes
461105	250 g	Glass bottle	

**Mercury (II) oxide red**  
 • Mercurio ossido rosso • Mercure (II) oxyde rouge • Mercurio (II) óxido rojo • Quecksilber (II) rotes Oxid  
 Synonym: *Mercuric oxide*

HgO Molecular Weight: 216,61 CAS: 21908-53-2 EEC-N: 244-654-7	<b>Classification transport</b> ONU: 1641 Transport Hazard class: 6.1 Packing group II		<b>Danger</b> H300-H310-H330-H373-H410 P271-P284-P301+P310a-P304+P340-P361+P364-P403+P233
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**Mercury (II) oxide red > RPE - For analysis - ACS**

**RPE**

Description .....Red powder	Chloride..... ≤ 250 ppm	Residue after reduction..... ≤ 0.025 %
Identification ..... Positive	Sulphate..... ≤ 150 ppm	Fe..... ≤50 ppm
Diluted HCl-ins. matter ..... ≤ 0.03 %	Nitrogen compounds (N)..... ≤ 50 ppm	Assay (complexometric)..... ≥ 99.0 %

Code	Size	Packaging	Notes
461325	250 g	Glass bottle	

**Mercury (II) sulfate**  
 • Mercurio solfato ico • Mercure (II) sulfate • Mercurio (II) sulfato • Quecksilber (II) sulfat  
 Synonym: *Mercuric sulfate*

HgSO <sub>4</sub> Molecular Weight: 296,65 CAS: 7783-35-9 EEC-N: 231-992-5	<b>Classification transport</b> ONU: 1645 Transport Hazard class: 6.1 Packing group II		<b>Danger</b> H300-H310-H330-H373-H410 P271-P284-P301+P310a-P304+P340-P361+P364-P403+P233
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**Mercury (II) sulfate > RPE - For analysis - ACS**

**RPE**

Description .....White powder or yellow	Chloride..... ≤30 ppm	Mercurous compounds..... ≤0.15 %	Fe..... ≤50 ppm
Identification ..... Positive	Residue on ignition..... ≤200 ppm	Nitrate..... Conform	Assay (oxidimetric)..... ≥98.0 %

Code	Size	Packaging	Notes
461405	250 g	Plastic bottle	

**Mercury (II) sulfate solution**  
 • Mercurio solfato soluzione • Mercure (II) sulfate solution • Mercurio (II) sulfato solución  
 • Quecksilber (II) sulfatlösung  
 Synonym: *Mercuric sulfate*

<b>Classification transport</b> ONU: 2922 Transport Hazard class: 8 Packing group II		<b>Danger</b> H290-H302-H331-H314-H373-H411 P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P403+P233
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**Mercury (II) sulfate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

**RS**

Code	Size	Packaging	Notes
611052600	100 ml	Glass bottle	Ref Ph.Eur 1052600



## Metanil yellow

• Giallo metanile • Jaune de méthanyle • Amarillo de metanilo • Metanilgelb

Synonym:

- 3-(4-Anilinophenylazo)benzenesulfonic acid sodium salt
- Acid yellow 36

$C_{18}H_{14}N_3NaO_3S$   
Molecular Weight: 375,38  
CAS: 587-98-4  
EEC-N: 209-608-2



### Warning

H312-H332  
P261-P271-P280h-P304+P340-P312a-P501a

### Metanil yellow > RPE - For analysis - C.I. 13065

RPE

Description ..... Golden to orange powder    Identification ..... Positive    pH range ..... 1.2 - 2.3    Colour change ..... red-yellow

Code	Size	Packaging	Notes
453542	25 g	Glass bottle	



## Metaphosphoric acid

• Acido metafosforico • Acide métaphosphorique • Acido metafosfórico • Metaphosphorsäure

Synonym:

meta-Phosphoric acid

$HPO_3$   
Molecular Weight: 79,98  
CAS: 37267-86-0

### Classification transport

ONU: 3261  
Transport Hazard class: 8  
Packing group III



### Danger

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Metaphosphoric acid > RPE - For analysis

RPE

Description Whitish semitransparent pieces    Heavy metals (Pb) ..... ≤ 50 ppm    As ..... ≤ 2 ppm    Stabilizer(NaPO3) ..... 50 ÷ 60 %  
Identification ..... Positive    Nitrate ..... ≤ 10 ppm    Fe ..... ≤ 100 ppm  
Chloride ..... ≤ 20 ppm    Subst. reducing KMnO4 ..... ≤ 100 ppm (5m)    Assay (acidimetric) ..... 40 ÷ 50 %

Code	Size	Packaging	Notes
407465	250 g	Plastic bottle	
407467	1 kg	Plastic bottle	



## Methanesulfonic acid

• Acido metansolfonico • Acide méthanesulfonique • Acido metanosulfónico • Methansulfonsäure

$CH_3SO_3H$   
Molecular Weight: 96,11  
CAS: 75-75-2  
EEC-N: 200-898-6

### Classification transport

ONU: 2586  
Transport Hazard class: 8  
Packing group III



### Danger

H302-H312-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P362+P364

### Methanesulfonic acid > RE - Pure

RE

Description ..... Colourless to yellow liquid    Identification ..... Positive    Density at 20° C ..... 1.47 ÷ 1.48    Assay (acidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
407481	250 ml	Glass bottle	
407483	1 l	Glass bottle	



## Methanol

• Metanolo • Méthanol • Metanol • Methanol

Synonym:  
Methyl alcohol

CH<sub>3</sub>OH  
Molecular Weight: 32,04  
CAS: 67-56-1  
EEC-N: 200-659-6

**Classification transport**  
ONU: 1230  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H301-H311-H331-H370  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### Methanol > RS - For UHPLC-MS

RS

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 200 ppm	At 365 nm .....	≤ 1 ppb	Al .....	≤ 20 ppb
Colour .....	≤ 5 APHA	Transmittance		UHPLC gradient peak		Fe .....	≤ 20 ppb
Identification (I.R.) .....	Positive	At 210 nm .....	≥ 40 %	At 220 nm .....	≤ 4 mAU	Na .....	≤ 50 ppb
Refractive index at 20°C .....	1.3270 ÷ 1.3300	At 225 nm .....	≥ 70 %	At 235 nm .....	≤ 2 mAU	Ca .....	≤ 50 ppb
Residue on evaporation .....	≤ 1 ppm	At 230 nm .....	≥ 80 %	Drift at 220 nm .....	≤ 30 mAU	Mg .....	≤ 20 ppb
Acidity .....	≤ 0.0003 meq/g	At 260 nm .....	≥ 98 %	Drift at 235 nm .....	≤ 10 mAU	K .....	≤ 50 ppb
Alkalinity .....	≤ 0.00006 meq/g	Fluorescence (quinine)		Sensitive Impurities (reserpine) .....	≤ 30 ppb		
Assay (CPG) .....	≥ 99.99 %	At 254 nm .....	≤ 1 ppb	Metals compounds			

Code	Size	Packaging	Notes
414941	1 l	Glass bottle	
414942	2.5 l	Glass bottle	

### Methanol > RS - For LC/MS

RS

Description .....	Clear colourless liquid	Alkalinity .....	≤ 0.00006 meq/g	≥ 260 nm .....	≥ 98 %	Metals compounds	
Colour .....	≤ 10 APHA	Assay (GLC) .....	≥ 99.95 %	Fluorescence (quinine)		Al .....	≤ 50 ppb
Identification (I.R.) .....	Conform	Transmission UV (1cm, ref water)		At 254 nm .....	≤ 1 ppb	Fe .....	≤ 50 ppb
Refractive index at 20°C .....	1.327 ÷ 1.331	At 210 nm .....	≥ 30 %	At 365 nm .....	≤ 1 ppb	Na .....	≤ 50 ppb
Water (K.F.) .....	≤ 200 ppm	At 225 nm .....	≥ 65 %	HPLC gradient		Ca .....	≤ 50 ppb
Residue on evaporation .....	≤ 2 ppm	At 235 nm .....	≥ 85 %	Test LC-MS TIC (50-2000m/z) ESI (+)		Mg .....	≤ 50 ppb
Acidity .....	≤ 0.0003 meq/g	At 250 nm .....	≥ 95 %	Sensitive Impurities (reserpine) .....	≤ 50 ppb	K .....	≤ 50 ppb

Code	Size	Packaging	Notes
414831	1 l	Glass bottle	
414832	2.5 l	Glass bottle	

### Methanol > RS - For HPLC - GOLD - Ultragradient grade

RS

Description .....	Clear liquid	Residue on evaporation .....	≤ 5 ppm	Assay (GLC) .....	≥ 99.9 %	at 225 nm .....	≥ 65 %
Identification .....	Positive	Carbonyl compounds (CH <sub>3</sub> COCH <sub>3</sub> ) ...	≤ 20 ppm	Fluorescence		at 235 nm .....	≥ 85 %
Colour (APHA) .....	≤ 10	Substances reducing KMnO <sub>4</sub> (O) ...	≤ 2 ppm	at 254 nm .....	≤ 1 ppb	at 240 nm .....	≥ 90 %
Density at 20°C .....	0.7910 ÷ 0.7930	Acidity .....	≤ 0.0003 meq/g	at 365 nm .....	≤ 1 ppb	at 250 nm .....	≥ 95 %
Refractive index at 20°C .....	1.3270 ÷ 1.3300	Alcalinity .....	≤ 0.00006 meq/g	Transmittance		at 260 nm .....	≥ 98 %
Distillation range .....	64.1 ÷ 65.1 °C	Ethanol .....	≤ 50 ppm	at 210 nm .....	≥ 30 %	Functionality for HPLC	
Water (K.F.) .....	≤ 0.02 %			at 220 nm .....	≥ 55 %	HPLC Gradient .....	Passed test

Code	Size	Packaging	Notes
412721	1 l	Glass bottle	
412722	2.5 l	Glass bottle	
412724	4 l	Glass bottle	
412725	5 l	Aluminium can	

### Methanol > RS - For HPLC PLUS Gradient grade

RS

Description .....	Clear colourless liquid	Residue on evaporation .....	≤ 5 ppm	at 365 nm .....	≤ 1 ppb	Carbonyl compounds (CO) .....	≤ 20 ppm
Identification .....	Positive	Acidity .....	≤ 0.0005 meq/g	U.V. Transmittance		Ethyl alcohol .....	≤ 200 ppm
Density at 20° C .....	0.7917 ÷ 0.7921	Alcalinity .....	≤ 0.0002 meq/g	at 210 nm .....	≥ 30 %	HPLC Gradient	
Refractive index at 20°C .....	1.3278 ÷ 1.3298	Assay (GLC) .....	≥ 99.9 %	at 220 nm .....	≥ 50 %		
Boiling point .....	64.1 ÷ 65.1 °C	Fluorescence		at 235 nm .....	≥ 80 %		
Water (K.F.) .....	≤ 0.02 %	at 254 nm .....	≤ 1 ppb	at 260 nm .....	≥ 98 %		

Code	Size	Packaging	Notes
412381	1 l	Glass bottle	
412383	2.5 l	Glass bottle	

## Methanol > RS - For HPLC Isocratic grade - ACS - Reag.Ph.Eur R2 - Reag.USP

**RS**

Description .....	Clear colourless liquid	Water (K.F) .....	≤ 0.05 %	Carbonyl compounds (CO).....	≤ 0.001 %	at 235 nm .....	≥ 80 %
Identification .....	Positive	Acidity .....	≤ 0.0005 meq/g	Absorbance ACS .....	Conform	at 260 nm .....	≥ 98 %
Density at 20° C .....	0.791 ÷ 0.793	Alcalinity .....	≤ 0.0002 meq/g	HPLC Gradient (ACS) .....	Conform	Absorbance	
Refractive index at 20°C .....	1.3278 ÷ 1.3298	Substances darkened by H2SO4 ...	Conform	Assay (GLC) .....	≥ 99.9 %	At 225 nm .....	≤ 0.17 AU
Boiling point .....	64 ÷ 65 °C	Subs. reducing KMnO4 .....	Conform	U.V. Transmittance			
Residue on evaporation .....	≤ 5 ppm	Solubility in water .....	Conform	at 210 nm .....	≥ 20 %		

Code	Size	Packaging	Notes
412531	1 l	Glass bottle PVC coated	
412533	1 l	Glass bottle	
412532	2.5 l	Glass bottle	
412535	2.5 l	Glass bottle PVC coated	

## Methanol > RS - For HPLC - Isocratic Grade

**RS**

Description .....	Clear colourless liquid	Free alkali (as NH3) .....	≤ 1 mg/Kg	Residue on evaporation .....	≤ 10 ppm	Transmittance UV at 210 nm.....	≥ 20 %
Density at 20°C .....	0.791 ÷ 0.793	Assay GLC .....	≥ 99.9 %	Water (KF).....	≤ 500 ppm	Transmittance UV at 235 nm.....	≥ 80 %
Refractive index at 20°C .....	1.3278 ÷ 1.3298	Free acid (as HCOOH) .....	≤ 10 mg/Kg	UV transmittance at 210 nm .....	≥ 20 %	Transmittance UV at 260 nm.....	≥ 98 %
Boiling point .....	63.6 ÷ 65.6 °C	Acidity (Formic Ac).....	≤ 20 ppm	Transmittance UV			

Code	Size	Packaging	Notes
525101	1 l	Glass bottle	
525102	2.5 l	Glass bottle	

## Methanol > RS - For GC-MS

**RS**

Appearance .....	Clear colourless liquid	Residue on evaporation .....	≤ 2 ppm	Alcalinity (NH3).....	≤ 1 ppm	µg/L
Refractive index at 20°C.....	1.327 - 1.331	Colour .....	≤ 5 APHA	Assay (GC) .....	≥ 99.98 %	Ret.range n-undecane to n-tetracontane
Water (K.F) .....	≤ 300 ppm	Acidity (formic acid) .....	≤ 10 ppm	GC-MS.Individual peak (n-hexadecane) .	≤ 2	(scanning area 30-600amu)

Code	Size	Packaging	Notes
414952	1 l	Glass bottle	

## Methanol > RS - ATRASOL - For trace analysis, Suitable for Volatile chlorinated compounds analysis

**RS**

Appearance .....	Clear colourless liquid	Non volatile residue .....	≤ 2 mg/Kg	GC-ECD.Individual peak (CCl4) .....	≤ 1 µg/l	Ret.range 1,2,4-trichlorobenzene
Refractive index at 20°C.....	1.327 - 1.331	Assay (GC) .....	≥ 99.98 %	Ret.range dichloromethane		to decachlorobiphenyle
Water content (K.F) .....	≤ 300 mg/Kg	Free alkali (as NH3) .....	≤ 1 mg/Kg	to 1,2,4-trichlorobenzene		GC-FID.Individual peak (n-hexadecane) .
Colour .....	≤ 5 Hazen	Free acid (as HCOOH) .....	≤ 10 mg/Kg	GC-ECD.Individual peak (Lindane) .	≤ 2 ng/L	µg/L
						Ret.range n-undecane to n-tetracontane

Code	Size	Packaging	Notes
P0933216	1 l	Glass bottle	
P0933221	2.5 l	Glass bottle	

## Methanol > RS - PESTIPUR - For pesticide analysis

**RS**

Description .....	Clear colourless liquid	Assay (GC) .....	≥ 99.9 %	Not volatile residue .....	≤ 5 ppm
Identification .....	Positive	Free acids (HCOOH) .....	≤ 10 ppm	GC-ECD (Lindano) .....	≤ 3 ng/l
Colour .....	≤ 10 hazen	Non volatile residue .....	≤ 5 mg/Kg	GC-NPD (Ethylparation) .....	≤ 3 ng/l
Water .....	≤ 0.05 %	Free alkalies (NH3) .....	≤ 1 ppm	Assay (GLC) .....	≥ 99.9 %

Code	Size	Packaging	Notes
414930	1 l	Glass bottle	
414932	2.5 l	Glass bottle	



## Methanol > RS - SPECTROSOL - For optical spectroscopy

**RS**

Description .....	Clear liquid	Residue on evaporation .....	≤5 ppm	at 365 nm .....	≤2 ppb	at 240 nm .....	≥90 %
Colour (APHA) .....	≤10	Acidity .....	≤0.0005 meq/g	U.V. Transmittance .....		at 260 nm .....	≥98 %
Identification .....	Positive	Alcalinity .....	≤0.0002 meq/g	Ethanol .....	≤ 200 mg/Kg	Nessler test .....	Conform
Density at 20° C .....	0.791 ÷ 0.793	Free alkali (as NH <sub>3</sub> ) .....	≤ 1 mg/Kg	at 205 nm .....	≥10 %	Ethyl alcohol .....	≤ 200 ppm
Refractive index at 20°C .....	1.3280 ÷ 1.3296	Assay (GLC) .....	≥99.9 %	Density d <sub>20</sub> /20 .....	0.791 - 0.793	Carbonyl compounds (CO) .....	≤ 20 ppm
Boiling point .....	64.1 ÷ 65.1 ° C	Fluorescence .....		at 220 nm .....	≥50 %		
Water (K.F.) .....	≤300 ppm	at 254 nm .....	≤2 ppb	at 230 nm .....	≥75 %		

Code	Size	Packaging	Notes
414902	1 l	Glass bottle	
414903	2.5 l	Glass bottle	

## Methanol > RS - Anhydrous - For analysis

**RS**

Description .....	Clear liquid	Colour (APHA) .....	≤ 10	Acidity .....	≤ 0.002 %	Residue on evaporation .....	≤ 0.001 %
Identification (I.R.) .....	Positive	Refractive index at 20°C .....	1.327 - 1.331	Water (K.F.) .....	≤ 0.005 %	Assay (GLC) .....	≥ 99.9 %

Code	Size	Packaging	Notes
P0931010	200 ml	Bottle with septum	
414981	1 l	Glass bottle	Water content max 50 ppm
P0931016	1 l	Glass bottle	
P0931021	2.5 l	Glass bottle	

## Methanol > RS - VLSI - For electronic use

**RS**

Code	Size	Packaging	Notes
527641	1 l	Plastic bottle	
527640	2.5 l	Plastic bottle	

**For specifications, contact our customer service for a certificate of analysis**

## Methanol > RS - RSE - For electronic use

**RS**

Description .....	Clear liquid	Chloride .....	≤0.2 ppm	Ca .....	≤0.5 ppm	Ni .....	≤0.01 ppm
Colour (APHA) .....	≤10	Carbonyl Compounds (CO) .....	≤5 ppm	Cd .....	≤0.005 ppm	Pb .....	≤0.01 ppm
Identification .....	Positive	Phosphate .....	≤0.5 ppm	Co .....	≤0.01 ppm	Pt .....	≤0.05 ppm
Water miscibility .....	Conform	Heavy metals (Pb) .....	≤0.2 ppm	Cr .....	≤0.01 ppm	Sb .....	≤0.01 ppm
Ready carbonizable substances .....	Conform	Subst. reducing KMnO <sub>4</sub> .....	≤2.5 ppm	Cu .....	≤0.01 ppm	Sn .....	≤0.02 ppm
Assay (GLC) .....	≥99.9 %	Total sulphur .....	≤1 ppm	Fe .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Resistivity .....	≥0.5 Mohm.cm	Ag .....	≤0.2 ppm	Ga .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Density at 20° C .....	0.791 ÷ 0.793	Al .....	≤0.05 ppm	In .....	≤0.02 ppm	Tl .....	≤0.05 ppm
Boiling point .....	64.1 ÷ 65.1 ° C	As .....	≤0.01 ppm	K .....	≤0.1 ppm	V .....	≤0.05 ppm
Water (K.F.) .....	≤500 ppm	Au .....	≤0.05 ppm	Li .....	≤0.02 ppm	Zn .....	≤0.01 ppm
Residue on evaporation .....	≤10 ppm	B .....	≤0.01 ppm	Mg .....	≤0.1 ppm	Zr .....	≤0.05 ppm
Acidity (formic acid) .....	≤15 ppm	Ba .....	≤0.1 ppm	Mn .....	≤0.01 ppm		
Alcalinity (NH <sub>3</sub> ) .....	≤1 ppm	Be .....	≤0.02 ppm	Mo .....	≤0.05 ppm		
Ethyl alcohol .....	≤200 ppm	Bi .....	≤0.02 ppm	Na .....	≤0.5 ppm		

Code	Size	Packaging	Notes
414917	1 l	Glass bottle	
414914	2.5 l	Glass bottle	

## Methanol > RS - MOS - For electronic use

**RS**

Description .....	Clear liquid	Chloride .....	≤0.2 ppm	Ca .....	≤0.5 ppm	Ni .....	≤0.01 ppm
Colour (APHA) .....	≤10	Carbonyl Compounds (CO) .....	≤5 ppm	Cd .....	≤0.005 ppm	Pb .....	≤0.01 ppm
Identification .....	Positive	Phosphate .....	≤0.5 ppm	Co .....	≤0.01 ppm	Pt .....	≤0.05 ppm
Water miscibility .....	Conform	Heavy metals (Pb) .....	≤0.2 ppm	Cr .....	≤0.01 ppm	Sb .....	≤0.01 ppm
Ready carbonizable substances .....	Conform	Subst. reducing KMnO4 .....	≤2.5 ppm	Cu .....	≤0.01 ppm	Sn .....	≤0.02 ppm
Assay (GLC) .....	≥99.9 %	Total sulphur .....	≤1 ppm	Fe .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Resistivity .....	≥0.5 Mohm.cm	Ag .....	≤0.2 ppm	Ga .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Density at 20° C .....	0.791 ÷ 0.793	Al .....	≤0.05 ppm	In .....	≤0.02 ppm	Tl .....	≤0.05 ppm
Boiling point .....	64.1 ÷ 65.1 ° C	As .....	≤0.01 ppm	K .....	≤0.1 ppm	V .....	≤0.05 ppm
Water (K.F.) .....	≤0.05 %	Au .....	≤0.05 ppm	Li .....	≤0.02 ppm	Zn .....	≤0.01 ppm
Residue on evaporation .....	≤10 ppm	B .....	≤0.01 ppm	Mg .....	≤0.1 ppm	Zr .....	≤0.05 ppm
Acidity (formic acid) .....	≤15 ppm	Ba .....	≤0.1 ppm	Mn .....	≤0.01 ppm		
Alcalinity (NH3) .....	≤1 ppm	Be .....	≤0.02 ppm	Mo .....	≤0.05 ppm		
Ethyl alcohol .....	≤200 ppm	Bi .....	≤0.02 ppm	Na .....	≤0.5 ppm		

Code	Size	Packaging	Notes
414822	1 l	Glass bottle	
414821	2.5 l	Glass bottle	

## Methanol > RS - For titration according to Karl Fischer

**RS**

Description .....	Clear colourless liquid	Density at 20° C .....	0.791 ÷ 0.793	Assay (GLC) .....	≥99.9 %
Identification .....	Positive	Water (K.F.) .....	≤0.03 %		

Code	Size	Packaging	Notes
414881	1 l	Glass bottle	
414883	2.5 l	Glass bottle	

## Methanol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Clear liquid	Residue on evaporation .....	≤ 8 ppm	B .....	≤0.02 ppm	Mn .....	≤0.01 ppm
Colour (APHA) .....	≤10	Acidity .....	≤ 0.0003 meq/g	Ba .....	≤0.1 ppm	Ni .....	≤0.01 ppm
Identification (I.R.) .....	Conform	Alkalinity .....	≤ 0.00006 meq/g	Ca .....	≤0.5 ppm	Pb .....	≤0.01 ppm
Water miscib. (15:40) .....	Complete	Ethyl alcohol .....	≤ 50 ppm	Cd .....	≤0.05 ppm	Sn .....	≤0.1 ppm
Ready carbonizable substances .....	Conform	Chloride .....	≤0.5 ppm	Co .....	≤0.01 ppm	Zn .....	≤0.1 ppm
Density at 20° C .....	0.791 ÷ 0.793	Carbonyl Compounds (CO) .....	≤10 ppm	Cr .....	≤0.02 ppm	Assay (GLC) .....	≥99.9 %
Refractive index at 20°C. 1.3280 ÷ 1.3296		Heavy metals (Pb) .....	≤0.5 ppm	Cu .....	≤0.01 ppm	Nessler test .....	Conform
Boiling point .....	64 ÷ 65 ° C	Subst. reducing KMnO4 .....	≤2 ppm	Fe .....	≤0.1 ppm		
Water (K.F.) .....	≤300 ppm	Al .....	≤0.5 ppm	Mg .....	≤0.1 ppm		

Code	Size	Packaging	Notes
414814	1 l	Glass bottle	
414819	1 l	Plastic bottle	
414815	2.5 l	Plastic bottle	
414816	2.5 l	Glass bottle	
524102	5 l	Plastic tank	
524103	5 l	Metal tank	
414818	10 l	Plastic tank	
414813	25 l	Plastic tank	
414817	200 l	Plastic drum	

## Methanol > RPE - Anhydrous - For analysis

**RPE**

Description .....	Clear liquid	Density at 20° C .....	0.791 ÷ 0.793	Acidity (formic acid) .....	≤15 ppm	Subst. reducing KMnO4 .....	≤3 ppm
Colour (APHA) .....	≤10	Refractive index at 20°C. 1.3280 ÷ 1.3297		Alcalinity (NH3) .....	≤1 ppm	Cu .....	≤0.01 ppm
Identification .....	Positive	Boiling point .....	64.1 ÷ 65.1 ° C	Ethyl alcohol .....	≤200 ppm	Ni .....	≤0.01 ppm
Water miscib. (15:40) .....	Complete	Water (K.F.) .....	≤0.01 %	Carbonyl Compounds (CO) .....	≤5 ppm	Assay (GLC) .....	≥99.9 %
Ready carbonizable substances .....	Conform	Residue on evaporation .....	≤10 ppm	Heavy metals (Pb) .....	≤0.5 ppm	Nessler test .....	Conform

Code	Size	Packaging	Notes
414854	1 l	Glass bottle	
414855	2.5 l	Glass bottle	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

## Methanol > ERBApharm - According to pharmacopoeia: DAB-NF-Ph.Eur.

**ERBApharm**

Description .....	Clear colourless liquid	Distillation range .....	64 ÷ 65 ° C	Ethyl alcohol .....	≤ 100 ppm	Benzene .....	≤ 2 ppm(v/v)
Colour .....	≤ 10 APHA	Water (K.F.) .....	≤ 300 ppm	Heavy metals and Zn .....	≤ 2 ppm	Organic volatile impurities	Conform USP-NF
Identification .....	Positive	Residue on evaporation .....	≤ 10 ppm	Fe .....	≤ 1 ppm	Related substances (CPG) .....	Pass test
Density at 20° C .....	0.791 ÷ 0.793	Ready oxidizable substances .....	Conform USP-NF	Absorbance UV (1cm, ref. water)		Assay (GLC) .....	≥ 99.9 %
Refractive index at 20°C .....	1.328 ÷ 1.330	Ready carbonizable substances .....	Conform USP-NF	At 230 nm .....	≤ 0.15 AU	Origin (BSE/TSE) .....	Synthesis
Acidity .....	Conform DAB	Acetone .....	≤ 10 ppm	At 250 nm .....	≤ 0.05 AU	Residual solvents (Current ICH) .....	Conform
Acidity or alkalinity .....	Pass test Ph.Eur.	Acetone and aldehydes .....	≤ 20 ppm	At 270 nm .....	≤ 0.02 AU		
Acidity (formic acid) .....	≤ 10 ppm			At 290 nm .....	≤ 0.01 AU		
Alcalinity (NH3) .....	≤ 1 ppm			Absorbance UV curve .....	Smooth Ph.Eur.		

Code	Size	Packaging	Notes
309204	1 l	Glass bottle	
309203	2.5 l	Glass bottle	
309201	25 l	Plastic tank	
529100	200 l	Plastic drum	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

## Methanol > RE - Pure

**RE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.791 ÷ 0.793	Residue on evaporation .....	≤ 50 ppm	Subst. reducing KMnO4 .....	≤ 3 ppm
Identification .....	Positive	Refractive index at 20°C .....	1.3278 ÷ 1.3298	Acidity (formic acid) .....	≤ 20 ppm	Assay (GLC) .....	≥ 99.9 %
Colour .....	≤ 10 APHA	Boiling point .....	64.1 ÷ 65.1 ° C	Water (K.F.) .....	≤ 0.05 %		

Code	Size	Packaging	Notes
309004	1 l	Glass bottle	
309001	2.5 l	Glass bottle	
528101	5 l	Plastic tank	
309008	10 l	Plastic tank	
309002	25 l	Plastic tank	
309009	160 kg	Plastic drum	
309000	200 l	Plastic drum	



## Methanol + 0.1% v/v formic acid

• Metanolo + 0.1% v/v acido formico • Méthanol + 0.1% v/v acide formique • Metanol + 0.1% v/v acido formico • Methanol + 0.1% v/v Ameisensäure

CH<sub>3</sub>OH  
Molecular Weight: 32,04  
CAS: 67-56-1

**Classification transport**  
ONU: 1992  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H301-H370  
P210-P241-P280-P301+P310a-P303+P361+P353-P403+P235

## Methanol + 0.1% v/v formic acid > RS - For LC/MS

**RS**

Description .....	Clear colourless liquid	Transmittance		Sensitive Impurities (reserpine) .....	≤ 100 ppb	Mg .....	≤ 0.5 ppm
Colour .....	≤ 10 APHA	At 230 nm .....	≥ 10 %	Metals content		K .....	≤ 0.5 ppm
HPLC Gradient		Assay (CPG) .....	≥ 99.5 %	Na .....	≤ 2 ppm	Raw material used	
At 254 nm .....	≤ 10 mAU	Test LC-MS TIC (100-2000m/z)		Ca .....	≤ 0.5 ppm		

Code	Size	Packaging	Notes
414861	1 l	Glass bottle	
414862	2.5 l	Glass bottle	



## Methanol + 0.1% v/v trifluoroacetic acid

- Metanolo + 0.1% v/v acido trifluoroacetico • Méthanol + 0.1% v/v acide trifluoroacétique • Metanol + 0.1% v/v acido trifluoroacético
- Methanol + 0.1% v/v trifluoressigsäure

CH<sub>3</sub>OH  
Molecular Weight: 32,04  
CAS: 67-56-1

**Classification transport**  
ONU: 1230  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H301-H370  
P210-P241-P280-P301+P310a-P303+P361+P353-P403+P235

### Methanol + 0.1% v/v trifluoroacetic acid > RS - For LC/MS

RS

Description .....	Clear colourless liquid	At 225 nm .....	≥ 20 %	At 365 nm .....	≤ 1 ppb	Al .....	≤ 30 ppb
Assay (GC) (without TFA) .....	≥ 99.9 %	At 240 nm .....	≥ 50 %	HPLC gradient		Fe .....	≤ 100 ppb
Trifluoroacetic acid content (V/V)	0.095 - 0.105 %	At 250 nm .....	≥ 80 %	Drift at 254 nm .....	≤ 40 mAU	Na .....	≤ 50 ppb
Water (K.F.) .....	≤ 500 ppm	At 260 nm .....	≥ 95 %	Test LC-MS TIC (50-2000m/z) ES I(+)		Ca .....	≤ 50 ppb
Residue on evaporation .....	≤ 2 ppm	Fluorescence (quinine)		Sensitive Impurities (reserpine) .....	≤ 50 ppb	Mg .....	≤ 30 ppb
UV transmittance (1 cm, ref. water)		At 254 nm .....	≤ 1 ppb	Metals compounds		K .....	≤ 50 ppb

Code	Size	Packaging	Notes
414871	1 l	Glass bottle	
414872	2.5 l	Glass bottle	



## Methanol, hydrochloric

- Metanolo, cloridrico • Méthanol - chlorhydrique • Metanol, clorhídrico • Methanol - Salzsäure

CH<sub>3</sub>OH  
Molecular Weight: 32,04  
CAS: 67-56-1

**Classification transport**  
ONU: 2929

### Methanol, hydrochloric > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611053203	100 ml	Glass bottle	Ref Ph.Eur 1053203



## Methanol-d4

- Alcole metilico-d4 • Méthanol-d4 • Metanol-d4 • Methanol-d4

Synonym:  
Tetrauteromethanol

CD<sub>3</sub>OD  
Molecular Weight: 36,07  
CAS: 811-98-3  
EEC-N: 212-378-6

**Classification transport**  
ONU: 1230  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H301-H311-H331-H370  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### Methanol-d4 > RS - For NMR - min 99.96%

RS

Code	Size	Packaging	Notes
P5310	10 x 0.6 ml	Glass ampoule	
P5319	10 x 0.75 ml	Glass ampoule	

**For specifications, contact our customer service for a certificate of analysis**

### Methanol-d4 > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5280	10 x 0.6 ml	Glass ampoule	
P5289	10 x 0.75 ml	Glass ampoule	
P5283A	5 ml	Glass ampoule	
P5284	5 x 10 ml	Glass ampoule	
P5284S	5 x 10 ml	Bottle with septum	
P5285	25 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**

**Methanol-d4 + 0.03% TMS**  
 • Alcole metilico-d4 + 0.03% TMS • Méthanol-d4 + 0.03% TMS • Metanol-d4 + 0.03% TMS  
 • Methanol-d4 + 0.03% TMS

Synonym:  
Tetradeuteromethanol

CD<sub>3</sub>OD  
 Molecular Weight: 36,07  
 CAS: 811-98-3  
 EEC-N: 212-378-6

**Classification transport**  
 ONU: 1230  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H301-H311-H331-H370  
 P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

**Methanol-d4 + 0.03% TMS > RS - For NMR - min 99.8%**

RS

Code	Size	Packaging	Notes
P5140	10 x 0.6 ml	Glass ampoule	

**For specifications, contact our customer service for a certificate of analysis**

**Methanol-d3**  
 • Alcole metilico-d3 • Méthanol-d3 • Metanol-d3 • Methanol-d3

Synonym:  
1,1,1-Trideuteromethanol

CD<sub>3</sub>OH  
 Molecular Weight: 35,02  
 CAS: 1849-29-2  
 EEC-N: 217-435-9

**Classification transport**  
 ONU: 1230  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H301-H311-H331-H370  
 P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

**Methanol-d3 > RS - For NMR - min 99.5%**

RS

Code	Size	Packaging	Notes
P5309	10 x 0.75 ml	Glass ampoule	

**For specifications, contact our customer service for a certificate of analysis**

**Methanol-d1**  
 • Alcole metilico-d1 • Méthanol-d1 • Metanol-d1 • Methanol-d1

Synonym:  
• Methan(ol-d)  
• Methyl alcohol-OD

CH<sub>3</sub>OD  
 Molecular Weight: 33,05  
 CAS: 1455-13-6  
 EEC-N: 215-933-0

**Classification transport**  
 ONU: 1230  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H301-H311-H331-H370  
 P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

**Methanol-d1 > RS - For NMR - min 99.5%**

RS

Code	Size	Packaging	Notes
P5275	25 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**

**2-MeTHF ▶ 2-Methyltetrahydrofuran**

**DL-Methionine**  
 • DL-Metionina • DL-Méthionine • DL-Metionina • DL-Methionin

Synonym:  
 • (±)-2-Amino-4-(methylmercapto)butyric acid  
 • DL-2-Amino-4(methylthio)butanoic acid

CH<sub>3</sub>S(CH<sub>2</sub>)<sub>2</sub>CHNH<sub>2</sub>COOH  
 Molecular Weight: 149,21  
 CAS: 59-51-8  
 EEC-N: 200-432-1

**DL-Methionine > RPE - For analysis**

RPE

Description .....	White crystalline powder	Loss on drying .....	≤ 0.5 %	Heavy metals (Pb).....	≤10 ppm	Assay (non-aqueous medium) .99.0 ÷ 101.0
Identification .....	Positive	Ammonium .....	≤1000 ppm	Residue on ignition .....	≤0.1 %	% (s.s.)
pH (sol 2% in H <sub>2</sub> O).....	5.4 - 6.1	Chloride.....	≤200 ppm	Sulphate.....	≤200 ppm	

Code	Size	Packaging	Notes
463126	250 g	Plastic bottle	

Methone ▶ Dimedone

4-Methoxybenzaldehyde ▶ Anisaldehyde

4-Methoxybenzoic acid ▶ Anisic acid



## 2-Methoxy ethanol

• 2-Metossietanolo • Glycol éthylénique monométhylether • 2-Metoxietanol • 2-Methoxy-ethanol

Synonym:  
Methyl glycol

CH<sub>2</sub>OHCH<sub>2</sub>OCH<sub>3</sub>  
Molecular Weight: 76,1  
CAS: 109-86-4  
EEC-N: 203-713-7

**Classification transport**  
ONU: 1188  
Transport Hazard class: 3  
Packing group III



**Danger**  
H226-H302-H312-H332-H360FD-HA26  
P210-P241-P261-P280-P303+P361+P353-  
P304+P340

### 2-Methoxy ethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid	Water (K.F) ..... ≤0.1 %	Ca ..... ≤0.5 ppm	Ni ..... ≤0.02 ppm
Identification (I.R.) ..... Conform	Residue on evaporation ..... ≤20 ppm	Cd ..... ≤0.05 ppm	Pb ..... ≤0.1 ppm
Water miscibility ..... Conform	Acidity (acetic acid) ..... ≤50 ppm	Co ..... ≤0.02 ppm	Sn ..... ≤0.1 ppm
Benzene miscibility ..... Complete	Alcalinity (NH <sub>3</sub> ) ..... ≤0.85 ppm	Cr ..... ≤0.02 ppm	Zn ..... ≤0.1 ppm
Diethyl ether miscib. .... Complete	Heavy metals (Pb) ..... ≤2 ppm	Cu ..... ≤0.02 ppm	Assay (GLC) ..... ≥99.5 %
Density at 20° C ..... 0.962 ÷ 0.968	Peroxides (H <sub>2</sub> O <sub>2</sub> ) ..... ≤10 ppm	Fe ..... ≤1 ppm	
Refractive index at 20°C. 1.4004 ÷ 1.4044	Al ..... ≤0.5 ppm	Mg ..... ≤0.01 ppm	
Boiling point ..... 123.5 ÷ 124.5 ° C	Ba ..... ≤0.1 ppm	Mn ..... ≤0.02 ppm	

Code	Size	Packaging	Notes
454021	1 l	Glass bottle	
454024	2.5 l	Glass bottle	
454023	25 kg	Metal drum	
454028	180 kg	Metal drum	



## alpha-Methoxyphenylacetic acid

• Acido alfa-metossifenilacetico • Acide alpha-méthoxyphénylacétique • Acido alfa-metoxifenilacetico  
• alpha-Methoxy(phenyl)essigsäure

Synonym:  
• MOPA  
• alpha-Methyl-DL-mandilic acid

C<sub>8</sub>H<sub>8</sub>CH(OCH<sub>3</sub>)COOH  
Molecular Weight: 166,18  
CAS: 7021-09-2  
EEC-N: 230-300-9



**Warning**  
H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### alpha-Methoxyphenylacetic acid > RPE - For analysis

RPE

Description ..... White powder	Identification ..... Positive	Melting point ..... 69 ÷ 71 ° C	Assay ..... ≥99 %
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Code	Size	Packaging	Notes
407441	5 g	Glass bottle	



## Methyl acetate

• Metile acetato • Méthyle acétate • Metilo acetato • Methylacetat

CH<sub>3</sub>COOCH<sub>3</sub>  
Molecular Weight: 74,08  
CAS: 79-20-9  
EEC-N: 201-185-2

**Classification transport**  
ONU: 1231  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336-HEU066  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233

### Methyl acetate > RS - For HPLC - Isocratic Grade

RS

Refractive index at 20°C ..... 1.359 - 1.363	Colour ..... ≤ 10 Hazen	UV Absorbance at 255 nm ..... ≤ 1 AU
Water content (K.F) ..... ≤ 500 mg/Kg	Assay (GC) ..... ≥ 99.5 %	UV Absorbance at 275 nm ..... ≤ 0.1 AU
Non volatile residue ..... ≤ 10 mg/Kg	Free acid (as CH <sub>3</sub> COOH) ..... ≤ 25 mg/Kg	UV Absorbance at 300 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
P0043721	2.5 l	Glass bottle	



## Methyl acetate > RPE - For analysis

**RPE**

Description ..... Clear liquid Identification ..... Positive Water (K.F.) ..... ≤ 0.1 %  
 Colour (APHA) ..... ≤ 10 Density at 20° C ..... 0.930 ÷ 0.936 Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
462017	1 l	Glass bottle	

## Methyl acetate > RE - Pure

**RE**

Refractive index at 20°C ..... 1.359 - 1.363 Non volatile residue ..... ≤ 50 mg/Kg Assay (GC) ..... ≥ 99 % Free acid (as CH<sub>3</sub>COOH) ..... ≤ 50 mg/Kg  
 Water content (K.F.) ..... ≤ 300 mg/Kg Colour ..... ≤ 10 Hazen Methanol ..... ≤ 0.1 %

Code	Size	Packaging	Notes
P0040228	5 l	Plastic tank	
P0040240	10 l	Metal tank	
P0040248	25 l	Metal drum	
P0040268	200 l	Metal drum	

## Methyl alcohol ► Methanol



### 4-Methylaminophenol sulfate

• Bis (4-idrossi-N-metilnilinio) solfato • 4-Méthylaminophénol sulfate • 4-Metil aminofenol sulfato  
 • 4-Methylaminophenolsulfat

Synonym:  
*Metol*

(CH<sub>3</sub>NHC<sub>6</sub>H<sub>4</sub>OH)<sub>2</sub>·H<sub>2</sub>SO<sub>4</sub>  
 Molecular Weight: 344,39  
 CAS: 55-55-0  
 EEC-N: 200-237-1

#### Classification transport

ONU: 3077  
 Transport Hazard class: 9  
 Packing group III



#### Warning

H302-H317-H373-H410  
 P260-P264-P280g-P301+P312a-P333+P313-P501a

## 4-Methylaminophenol sulfate > RPE - For analysis - ACS

**RPE**

Description ..... beige crystalline powder Suit. for phosphate det. .... Conform Assay (oxidimetric) ..... ≥ 98.5 %  
 Identification ..... Positive Residue on ignition ..... ≤ 0.15 %

Code	Size	Packaging	Notes
461805	250 g	Plastic bottle	



### Methyl benzoate

• Metile benzoato • Méthyle benzoate • Metilo benzoato • Methylbenzoat

C<sub>6</sub>H<sub>5</sub>COOCH<sub>3</sub>  
 Molecular Weight: 136,15  
 CAS: 93-58-3  
 EEC-N: 202-259-7



#### Warning

H302  
 P264-P270-P301+P312a-P330-P501a

## Methyl benzoate > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Refractive index at 20° C ..... 1.51 ÷ 1.52 Acidity (benzoic acid) ..... ≤ 0.12 % Ni ..... ≤ 0.2 ppm  
 Identification ..... Positive Water (K.F.) ..... ≤ 0.1 % Cu ..... ≤ 0.2 ppm Pb ..... ≤ 0.2 ppm  
 Density at 20° C ..... 1.086 ÷ 1.090 Residue on evaporation ..... ≤ 100 ppm Fe ..... ≤ 0.5 ppm Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
462207	1 l	Glass bottle	

**3-Methyl-2-benzothiazolinone hydrazone hydrochloride**

• 3-Metile-2-benzotiazolinone idrazone cloridrato • 3-Méthyl-2-benzothiazoline hydrazone chlorhydrate  
• 3-Metil-2-benzotiazolinona hidrazona clorhidrato • 3-Methyl-2-benzothiazolinhydrazonehydrochlorid

Synonym:  
2-Hydrazono-3-methylbenzothiazoline  
hydrochloride

$C_8H_9N_3S.HCl.H_2O$   
Molecular Weight: 233,72  
CAS: 38894-11-0

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H315-H319-H351-H335  
P261-P271-P280-P304+P340-P305+P351+P338-  
P403+P233

**3-Methyl-2-benzothiazolinone hydrazone hydrochloride > RPE - For analysis****RPE**

Description ..... White powder    Identification ..... Positive    Loss on drying ..... ≤ 8 %    Assay (HPLC) ..... ≥ 97.5 % (d.s.)

Code	Size	Packaging	Notes
462238	5 g	Glass bottle	

**Methyl blue**

• Blu metile • Bleu de méthyle • Azul de metilo • Methylblau

Synonym:  
Acid blue 93

$C_{37}H_{27}N_3Na_2O_9S_3$   
Molecular Weight: 799,8  
CAS: 28983-56-4  
EEC-N: 249-352-9

**Methyl blue > RS - For microscopy - C.I. 42780****RS**

Description ..... Red-violet crystals    Identification ..... Positive    Sensib.(pH 9.0-11.0) ..... Conform

Code	Size	Packaging	Notes
428932	25 g	Glass bottle	

**Dye for histology and microbiology**

2-Methyl-2-butanol ▶ tert-Amyl alcohol

3-Methyl-1-butanol ▶ Isoamyl alcohol

2-Methylbutane ▶ Isopentane

Methyl cyanide ▶ Acetonitrile

**Methylcyclohexane**

• Metilcicloesano • Méthylcyclohexane • Metilciclohexano • Methylcyclohexan

Synonym:  
Hexahydrotoluene

$CH_3CH(CH_2)_4CH_2$   
Molecular Weight: 98,19  
CAS: 108-87-2  
EEC-N: 203-624-3

**Classification transport**  
ONU: 2296  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H315-H336-H304-H411  
P210-P241-P280-P303+P361+P353-P304+P340-  
P403+P233

**Methylcyclohexane > RS - SPECTROSOL - For optical spectroscopy****RS**

Code	Size	Packaging	Notes
P0582716	1 l	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis****Methylcyclohexane > RS - Anhydrous - For analysis****RS**

Refractive index at 20°C ..... 1.421 - 1.425    Non volatile residue ..... ≤ 10 mg/Kg    Aromatic compounds ..... ≤ 300 mg/Kg    Total sulphur (S) ..... ≤ 1 ppm  
Water content (K.F.) ..... ≤ 50 mg/Kg    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0581016	1 l	Glass bottle	

## Methylcyclohexane > RPE - For analysis

**RPE**

Refractive index at 20°C ..... 1.421 - 1.425    Non volatile residue ..... ≤ 10 mg/Kg    Aromatic compounds ..... ≤ 300 mg/Kg    Total sulphur (S) ..... ≤ 1 ppm  
 Water content (K.F.) ..... ≤ 150 mg/Kg    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0580516	1 l	Glass bottle	

## Methylcyclohexane > RE - Pure

**RE**

Description ..... Clear liquid    Boiling point ..... 100.15 ÷ 100.65 °C    Water (K.F.) ..... ≤ 0.03 %    Acidity or alkalinity ..... Passes test  
 Density at 20°C ..... 0.767 ÷ 0.770    Benzene ..... ≤ 200 ppm    Residue on evaporation ..... ≤ 50 ppm  
 Refractive index at 20°C ..... 1.419 ÷ 1.427    Total sulphur (S) ..... ≤ 2 ppm    Assay (GLC) ..... ≥ 99.0 % (GLC)

Code	Size	Packaging	Notes
528264	1 l	Glass bottle	
528261	5 l	Plastic tank	
528260	25 l	Metal drum	
528262	200 l	Metal drum	



## Methylene blue

• Blu metilene • Bleu de méthylène • Azul de metileno • Methylenblau

Synonym:

- Tetramethylthionine chloride
- 3,7-bis(Dimethylamino)phenazothionium chloride

C16H18N3SCL.3H2O  
 Molecular Weight: 373,9  
 CAS: 7220-79-3  
 EEC-N: 200-515-2



### Warning

H302-H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

## Methylene blue > RS - For analysis - Reag.Ph.Eur. - C.I. 52015

**RS**

Description ..... Dark green powder    Assay (dried base) ..... 96 ÷ 101 %    Fe ..... Passes    Loss on drying at 110°C ..... 10 -20 %  
 Identification ..... Positive    Solubility ..... Clear Blue Solution    Pb ..... ≤ 20 ppm

Code	Size	Packaging	Notes
428984	100 g	Plastic bottle	

## Methylene blue > RPE - For analysis - C.I. 52015

**RPE**

Description ..... Polvere verde blu    Identification ..... Positive    Functionality ..... Conform

Code	Size	Packaging	Notes
429982	25 g	Glass bottle	
429981	500 g	Plastic bottle	

**Redox indicator purple - colorless**



## Methylene blue saturated solution

• Blu metilene soluzione satura in alcol etilico • Bleu de méthylène solution saturée  
 • Azul de metileno solución saturada en alcohol etilico • Methylenblau gesättigte Lösung

Synonym:

Tetramethylthionine chloride

C16H18N3SCL  
 Molecular Weight: 319,85 (an.)  
 CAS: 61-73-4

### Classification transport

ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H319  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P337+P313

## Methylene blue saturated solution > RPE - For analysis

**RPE**

Description ..... Blue liquid    Identification ..... Positive    Density at 20° C ..... 0.809 ÷ 0.815 g/ml    Assay ..... 1.0 ÷ 1.2 % (p/v)

Code	Size	Packaging	Notes
E429031	250 ml	Glass bottle	

**Methylene blue solution 1%**

- Blu metilene soluzione 1% • Bleu de méthylène solution 1% • Azul de metileno solución 1%
- Methylenblaulösung 1%

Synonym:  
Tetramethylthionine chloride

C<sub>16</sub>H<sub>18</sub>N<sub>3</sub>SCl

HEU210

Molecular Weight: 319,85 (an.)

CAS: 61-73-4

**Methylene blue solution 1% > RPE - For analysis****RPE**

Description ..... Blue liquid Identification ..... Positive Density at 20° C ..... ~ 1.00 g/ml Assay (oxidimetric) ..... 0.9 ÷ 1.1 %

Code	Size	Packaging	Notes
E429011	500 ml	Plastic bottle	

**Methylene chloride ▶ Dichloromethane****Methyl glycol ▶ 2-Methoxy ethanol****Methyl green**

- Verde metile • Vert de méthyle • Verde de metilo • Methylgrün

C<sub>26</sub>H<sub>33</sub>Cl<sub>2</sub>N<sub>3</sub>

Molecular Weight: 458,48

CAS: 22383-16-0

**Warning**

H315-H319-H335

P261-P271-P304+P340-P305+P351+P338-

P332+P313-P403+P233

**Methyl green > RS - For microscopy - C.I. 42585****RS**

Description ..... Dark red powder Identification ..... Positive

Code	Size	Packaging	Notes
491351	10 g	Glass bottle	
491352	25 g	Glass bottle	

**Dye for cytology****Methyl 4-hydroxybenzoate**

- Metile p-ossibenzoato • Méthyle p-oxybenzoate • Metilo p-oxibenzoato • Methyl-4-hydroxybenzoat

Synonym:  
4-Hydroxybenzoic acid propyl ester

HOC<sub>6</sub>H<sub>4</sub>COOCH<sub>3</sub>

Molecular Weight: 152,15

CAS: 99-76-3

EEC-N: 202-785-7

**Warning**

H315-H319-H335

P261-P271-P304+P340-P305+P351+P338-

P332+P313-P403+P233


**Methyl 4-hydroxybenzoate > ERBapharm - According to pharmacopoeia: DAB-BP-FU-NF-Ph.Eur.-Ph.Franc.****ERBapharm**

Description ..... White crystalline powder Acidity (HCl) ..... Conform Ph.Eur. Melting point ..... 125 ÷ 128 °C Origin (BSE/TSE) ..... Synthesis  
 Identification ..... Positive Related substances ..... Conform Ph.Eur. Sulphated ash ..... ≤ 0.1 %  
 Appearance of solution ..... Conform Ph.Eur. Organic volatile impurities Conform USP-NF Assay (acidimetric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
354007	1 kg	Plastic bottle	
354008	5 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

	<b>Methyl iodide</b>	Synonym: <i>Iodomethane</i>
	• Metile ioduro • Méthyle iodure • Metilo yoduro • Methyljodid	

CH <sub>3</sub> I Molecular Weight: 141,94 CAS: 74-88-4 EEC-N: 200-819-5	<b>Classification transport</b> ONU: 2644 Transport Hazard class: 6.1 Packing group I	 <b>Danger</b> H301-H312-H331-H315-H351-H335 P261-P280-P304+P340-P308+P313-P330- P362+P364-P403+P233
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### Methyl iodide > RPE - For analysis


**RPE**

Description	Clear liquid	Density at 20° C	2.276 ÷ 2.284	Water (K.F.)	≤ 500 ppm
Identification	Positive	Refractive index at 20°C	1.5273 ÷ 1.5313	Residue on evaporation	≤50 ppm
Colour	≤150 APHA	Boiling point	42.0 ÷ 43.0 °C	Assay (GLC)	≥99 %

Code	Size	Packaging	Notes
462601	50 ml	Glass bottle	
462604	250 ml	Glass bottle	

**Stabilized with silver**

	<b>Methylisoamyl ketone</b>	Synonym: • 5-Methyl-2-hexanone • Isobutylacetone
	• Metilisoamilchetone • Méthylisoamylcétone • Metilo isoamilcetona • Methylisoamylketon	

C <sub>7</sub> H <sub>14</sub> O Molecular Weight: 114,19 CAS: 110-12-3	<b>Classification transport</b> ONU: 2302 Transport Hazard class: 3 Packing group III	 <b>Warning</b> H226-H332 P210-P241-P261-P280-P303+P361+P353- P304+P340
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### Methylisoamyl ketone > RE - Pure

**RE**

Appearance	Clear colourless liquid	Density d20/20	0.811 - 0.815	Non volatile residue	≤ 50 mg/Kg	Assay (GC)	≥ 98.5 %
Refractive index at 20°C	1.404 - 1.408	Water content (K.F.)	≤ 500 mg/Kg	Free acid (as CH <sub>3</sub> COOH)	≤ 100 mg/Kg		

Code	Size	Packaging	Notes
P0900221	2.5 l	Glass bottle	

	<b>Methyl isobutyl ketone</b>	Synonym: • 4-Methyl-2-pentanone • MBK
	• Metile isobutilchetone • Méthylisobutylcétone • Metilo isobutilcetona • Isobutylmethylketon	

CH <sub>3</sub> COCH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub> Molecular Weight: 100,16 CAS: 108-10-1 EEC-N: 203-550-1	<b>Classification transport</b> ONU: 1245 Transport Hazard class: 3 Packing group II	 <b>Danger</b> H225-H332-H319-H335-HEU066 P210-P280-P303+P361+P353-P304+P340- P305+P351+P338-P403+P233
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### Methyl isobutyl ketone > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C	1.394 - 1.398	Non volatile residue	≤ 10 mg/Kg	Acetone	≤ 0.1 %	Free acid (as CH <sub>3</sub> COOH)	≤ 50 mg/Kg
Density d20/20	0.797 - 0.805	Colour	≤ 10 Hazen	Mesityl and isomesityl oxide	≤ 0.1 %		
Water content (K.F.)	≤ 200 mg/Kg	Assay (GC)	≥ 99.5 %	4-methyl-2-pentanol	≤ 0.1 %		

Code	Size	Packaging	Notes
P0601016	1 l	Glass bottle	

**Keep in a well-ventilated place**

### Methyl isobutyl ketone > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description	Clear liquid	Density at 20° C	0.797 ÷ 0.805	Alcalinity (NH <sub>3</sub> )	≤10 ppm	Zn	≤0.1 ppm
Colour (APHA)	≤10	Refractive index at 20°C	1.3930 ÷ 1.3990	Cd	≤0.05 ppm	Assay (GLC)	≥99.5 %
Identification (I.R.)	Conform	Boiling point	115.7 ÷ 116.7 °C	Cu	≤0.1 ppm	Acetone	≤ 0.1 %
Alcohol miscibility	Complete	Water (K.F.)	≤0.05 %	Fe	≤0.1 ppm	Mesityl and isomesityl oxide	≤ 0.1 %
Benzene miscibility	Complete	Residue on evaporation	≤10 ppm	Ni	≤0.1 ppm	4-methyl-2-pentanol	≤ 0.1 %
Diethyl ether miscib.	Complete	Acidity	≤0.002 meq/g	Pb	≤0.1 ppm		

Code	Size	Packaging	Notes
461945	1 l	Glass bottle	
461943	21 kg	Metal drum	

**Keep in a well-ventilated place**

**Methyl isobutyl ketone > RE - Pure****RE**

Description .....	Clear liquid	Density at 20°C .....	0,797 ÷ 0,805	Assay (GC) .....	≥ 99.5 %	Free acid (as CH <sub>3</sub> COOH) .....	≤ 50 mg/Kg
Density d <sub>20</sub> /20 .....	0.797 - 0.805	Non volatile residue .....	≤ 30 mg/Kg	Acidity (Acetic ac.) .....	≤ 50 ppm	Assay (GLC) .....	≥ 99.5 %
Identification .....	Positive	Refractive index at 20°C .....	1.3930 ÷ 1.3990	Residue on evaporation .....	≤ 30 ppm	Acetone .....	≤ 0.1 %
Water content (K.F.) .....	≤ 1000 mg/Kg	Boiling point .....	115,7 ÷ 116,7 °C	Water (K.F.) .....	≤ 1000 ppm	Colour .....	≤ 15 APHA

Code	Size	Packaging	Notes
528980	5 l	Plastic tank	
528981	25 l	Metal drum	
P0600268	200 l	Metal drum	

**Keep in a well-ventilated place****Methyl orange**

• Arancio metile • Méthylorange • Naranja de metilo • Orangenschnaps

Synonym:

- 4-[4-(Dimethylamino)phenylazo]benzenesulfonic acid sodium salt
- Acid Orange 52

C<sub>14</sub>H<sub>14</sub>N<sub>3</sub>NaO<sub>3</sub>S  
Molecular Weight: 327,34  
CAS: 547-58-0  
EEC-N: 208-925-3

**Classification transport**

ONU: 3143  
Transport Hazard class: 6.1  
Packing group II

**Danger**

H301  
P264-P270-P301+P310a-P330-P405-P501a

**Methyl orange > RPE - For analysis - C.I. 13025 - ACS****RPE**

Description .....	Yellow-orange powder	Identification .....	Positive	Colour change .....	rosso-giallo	pH range .....	3.2 ÷ 4.4 pH
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Code	Size	Packaging	Notes
423504	25 g	Glass bottle	
423503	50 g	Plastic bottle	
423505	250 g	Plastic bottle	
423501	500 g	Plastic bottle	
423502	25 kg	Drum	

**Dye for microscopy (histology)****Methyl Orange solution 0.1%**

• Arancio metile soluzione 0.1% • Méthylorange solution 0.1% • Naranja de metilo solución 0.1% • Methylorangenzlösung 0.1%

Synonym:

- 4-[4-(Dimethylamino)phenylazo]benzenesulfonic acid sodium salt
- Acid Orange 52

C<sub>14</sub>H<sub>14</sub>N<sub>3</sub>NaO<sub>3</sub>S  
Molecular Weight: 327,34  
CAS: 547-58-0

**Methyl Orange solution 0.1% > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611054802	100 ml	Plastic bottle	Solution in ethanol Ref Ph.Eur 1054802

**Color change: pH 3.0 (red) to pH 4.4 (yellow)****Methyl Orange solution 0.1% > RPE - For analysis****RPE**

Description .....	Orange clear liquid	Identification .....	Positive	Sensitivity(pH 3.1-4.4) .....	Conform	Colour change .....	red-yellow
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Code	Size	Packaging	Notes
E423562	500 ml	Plastic bottle	

**Acid-base indicator**





## Methyl orange mixed solution

- Indicatore misto di metile arancione • Indicateur mixte au méthylorange • Naranja de metilo solución mixta • Mischindikator mit Methylorange

Synonym:

- 4-[4-(Dimethylamino)phenylazo]benzenesulfonic acid sodium salt
- Acid Orange 52

### Methyl orange mixed solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611054801	100 ml	Plastic bottle	Ref Ph.Eur 1054801

Colour change: pH 3.0 (orange) to pH 4.4 (olive-green)

2-Methylpentane ▶ Isohexane

4-Methyl-2-pentanone ▶ Methyl isobutyl ketone

2-Methylphenol ▶ o-Cresol

Methyl phenyl ketone ▶ Acetophenone

2-Methyl-2-propanol ▶ tert-Butanol



## N-Methyl-2-pyrrolidone

- N-Metile-2-pirrolidone • N-Méthyle-2-pyrrolidone • N-Metil-2-pirrolidona • N-Methyl-2-pyrrolidone

Synonym:

- 1-Methyl-2-pyrrolidone
- NMP

CH<sub>2</sub>-(CH<sub>2</sub>)<sub>2</sub>-CON-CH<sub>3</sub>  
CAS: 872-50-4  
EEC-N: 212-828-1



**Danger**

H315-H319-H360D-H335-HA26  
P261-P271-P280-P304+P340-P305+P351+P338-P403+P233

### N-Methyl-2-pyrrolidone > RS - For Headspace chromatography

RS

Description	Clear colourless liquid	Assay (GLC)	≥ 99.8 %	At 320 nm	≥ 78 %	Residual solvent of class 2(acc. to ICH) ≤ 10 µg/g
Identification	Positive	UV cut off	≤ 269 nm	≥ 350 nm	≥ 97 %	Residual solvent of class 3(acc. to ICH) ≤ 50 µg/g
Density at 20° C	1.026 - 1.032	U.V. Transmittance		GC/HS		Residual solvent of class 3(acc. to ICH) ≤ 50 µg/g
Refractive index at 20°C	1.469 - 1.471	At 285 nm	≥ 30 %	Residual solvent of class 1(acc. to ICH)	≤ 1 µg/g	
Water (K.F.)	≤ 0.1 %	At 300 nm	≥ 55 %			

Code	Size	Packaging	Notes
462881	1 l	Glass bottle	

### N-Methyl-2-pyrrolidone > RS - Anhydrous - For analysis

RS

Appearance	Clear liquid	Refractive index at 20°C	1.466 - 1.471	Assay (GC)	≥ 99.8 %
Identification	Conform	Colour	≤ 20 Hazen	Butyrolactone	≤ 500 mg/Kg
Density d20/4	1.026 - 1.032	Water content (K.F.)	≤ 200 mg/Kg	Monomethylamine	≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0871010	200 ml	Bottle with septum	

### N-Methyl-2-pyrrolidone > RS - For peptide synthesis

RS

Clear liquid appearance	Conform	Water content (K.F.)	≤ 400 mg/Kg	Amines content	≤ 5 mg/Kg
Identification (IR)	Conform	Colour	≤ 15 Hazen	Assay (GC)	≥ 99.7 %
Refractive index at 20°C	1.466 - 1.471	Bromophenol blue test	Conform	Non volatile residue	≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0873516	1 l	Glass bottle	
P0873521	2.5 l	Glass bottle	
P0873541	10 l	Plastic tank	
P0873549	25 l	Plastic tank	
P0873566	200 l	Polythene-metal drum	

**N-Methyl-2-pyrrolidone > RPE - For analysis - ACS****RPE**

Description .....	Clear liquid	Density at 20° C .....	1.026 ÷ 1.032	Chloride.....	≤ 1 ppm	Monometilamina.....	≤ 50 ppm
Identification .....	Positive	Refractive index at 20°C.....	1.4670 ÷ 1.4710	Free amines (as CH <sub>3</sub> NH <sub>2</sub> ).....	≤ 0.01 %	Assay (GLC) .....	≥99.8 %
Colour .....	≤ 50 APHA	Water (K.F) .....	≤0.05 %	Butirrolattone.....	≤ 500 ppm		

Code	Size	Packaging	Notes
462872	1 l	Glass bottle	
462875	2.5 l	Glass bottle	
462874	23 kg	Drum	
462873	210 kg	Metal drum	

**N-Methyl-2-pyrrolidone > RE - Pure****RE**

Description .....	Clear liquid	Colour .....	≤ 50 APHA	Refractive index at 20°C.....	1.4670 ÷ 1.4710	Water (K.F) .....	≤ 0.1 %
Identification .....	Positive	Density at 20°C .....	1.026 ÷ 1.032	Boiling point.....	203.0 ÷ 205.0 °C	Assay (GLC) .....	≥ 99.5 %

Code	Size	Packaging	Notes
528341	1 l	Glass bottle	
528343	2.5 l	Glass bottle	
528340	5 l	Plastic tank	
528346	25 l	Metal drum	

**Methyl red**

• Rosso metile • Rouge méthyle • Rojo de metilo • Methylrot

Synonym:

- 2-(4-Dimethylaminophenylazo)benzoic acid
- 4-Dimethylaminobenzene-2'-carboxylic acid



Molecular Weight: 269,31

CAS: 493-52-7

EEC-N: 207-776-1

**Methyl red > RPE - For analysis - C.I. 13020****RPE**

Description .....	Purple powder	Appear of water sol. ....	Conform	pH range .....	4.2 - 6.2
Identification .....	Positive	Colour change.....	red-yellow		

Code	Size	Packaging	Notes
476882	25 g	Glass bottle	
476883	50 g	Plastic bottle	
476881	250 g	Plastic bottle	

**Methyl red solution water/ethanol 0.2%**

• Rosso metile soluzione 0.2% in alcole etilico • Rouge méthyle solution 0.2% dans l'éthanol  
• Rojo de metilo solución 0.2% en alcohol etilico • Methylrotlösung Wasser / Ethanol 0.2%

Synonym:

- 2-(4-Dimethylaminophenylazo)benzoic acid
- 4-Dimethylaminobenzene-2'-carboxylic acid

**Warning**

H319

P264-P280i-P305+P351+P338-P337+P313

**Methyl red solution water/ethanol 0.2% > RPE - For analysis****RPE**

Description .....	Purple liquid	Identification .....	Positive	pH sensitivity.....	4.2 ÷ 6.2	Colour change.....	yellow red
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Code	Size	Packaging	Notes
E476915	250 ml	Glass bottle	

**Indicator series Clark indicator acid-base**



## Methyl red solution 0.1% in ethanol

• Rosso metile soluzione 0,1% in alcol etilico • Rouge méthyle solution 0.1% dans l'éthanol  
• Rojo de metilo solución 0.1% en alcohol etílico • Methylrotlösung 0.1% in Ethanol

Synonym:

- 2-(4-Dimethylaminophenylazo)benzoic acid
- 4-Dimethylaminobenzene-2'-carboxylic acid

### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

## Methyl red solution 0.1% in ethanol > RPE - For analysis

RPE

Description ..... Purple liquid Identification ..... Positive pH range ..... 4.4 - 6.2

Code	Size	Packaging	Notes
E476921	250 ml	Glass bottle	

Indicator series Clark indicator acid-base



## Methyl red solution

• Rosso metile soluzione • Rouge de méthyle solution • Rojo de metilo solución • Methylrotlösung

Synonym:

- 2-(4-Dimethylaminophenylazo)benzoic acid
- 4-Dimethylaminobenzene-2'-carboxylic acid

$C_{15}H_{15}N_3O_2$

Molecular Weight: 269,31

CAS: 493-52-7

### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

## Methyl red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611055102	100 ml	Plastic bottle	Ref Ph.Eur 1055102

Colour change: pH 4.4 (red) to pH 6.0 (yellow)

## Methyl red solution > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000111	100 ml	Plastic bottle	Methyl red solution TS



## Methyl red mixed solution

• Indicatore misto di rosso di metile • Indicateur mixte au rouge de méthyle • Rojo de metilo solución mixta • Mischindikator mit Methylrot

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

## Methyl red mixed solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611055101	100 ml	Plastic bottle	Ref Ph.Eur 1055101

Colour change: pH 5.2 (red-violet) to pH 5.6 (green)



## Methyl salicylate

• Metile salicilato • Méthyle salicylate • Metilo salicilato • Methylsalicylat

Synonym:

2-Hydroxybenzoic acid methyl ester

$\text{HOC}_6\text{H}_4\text{COOCH}_3$   
Molecular Weight: 152,15  
CAS: 119-36-8  
EEC-N: 204-317-7



### Warning

H302-H319  
P264-P280i-P301+P312a-P305+P351+P338-  
P337+P313-P501a

### Methyl salicylate > ERBApharm - According to pharmacopoeia: BP-DAB-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... Yellowish liquid    Refractive index at 20°C..... 1.535 ÷ 1.538    Appearance of solution ..... Conform Ph.Eur.    Density d20/20 ..... 1.182 - 1.188  
Identification ..... Positive    Assay (saponification) ..... 99.0 ÷ 101.0 %    Acidity ..... Conform Ph.Eur.

Code	Size	Packaging	Notes
354152	1 l	Glass bottle	
354155	25 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

Methyl sulfoxide ► Dimethylsulphoxide

Methyl tert-butyl ether ► tert-Butylmethylether



## 2-Methyltetrahydrofuran

• 2-Metiltetraidrofurano • 2-Méthyltétrahydrofurane • 2-Metiltetrahydrofurano • 2-Methyltetrahydrofuran

Synonym:

• Tetrahydro-2-methylfuran  
• 2-MeTHF

$\text{C}_5\text{H}_{10}\text{O}$   
Molecular Weight: 86,14  
CAS: 96-47-9  
EEC-N: 202-507-4

### Classification transport

ONU: 2536  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H302-H318-H335-HEU019  
P210-P280-P303+P361+P353-P304+P340-P310a-  
P305+P351+P338-P403+P233

### 2-Methyltetrahydrofuran > RS - For HPLC - Isocratic Grade

RS

Clear, colourless liq. appearance ..... Conform    Refractive index at 20°C..... 1.404 - 1.408    Assay (GC) ..... ≥ 99.5 %    UV transmittance at 280 nm ..... ≥ 90 %  
Density d20/4 ..... 0.853 - 0.857    Water content (K.F.) ..... ≤ 200 mg/Kg    UV transmittance at 240 nm ..... ≥ 30 %    UV transmittance from 310 nm ..... ≥ 98 %  
Identification ..... Conform    Non volatile residue ..... ≤ 5 mg/Kg    UV transmittance at 250 nm ..... ≥ 50 %  
Colour ..... ≤ 10 Apha    Peroxides (as H2O2) ..... ≤ 300 mg/Kg    UV transmittance at 260 nm ..... ≥ 70 %

Code	Size	Packaging	Notes
412681	1 l	Glass bottle	
412682	2.5 l	Glass bottle	

### 2-Methyltetrahydrofuran > RE - Pure

RE

Appearance ..... Clear colourless liquid    Density d20/4 ..... 0.853 - 0.857    Assay (GC) ..... ≥ 99.9 %    Peroxides (as H2O2) ..... ≤ 100 mg/Kg  
Refractive index at 20°C ..... 1.404 - 1.408    Water content (K.F.) ..... ≤ 300 mg/Kg    Stabilizer (iono) ..... 150 - 400 mg/Kg

Code	Size	Packaging	Notes
P9960216	1 l	Glass bottle	
P9960221	2.5 l	Glass bottle	
P9960229	5 l	Plastic tank	
P9960248	25 l	Metal drum	
P9960268	200 l	Metal drum	



## 4-Methyltetrahydropyran

• 4-Metiltetraidropirano • 4-Méthyltétrahydropyrane • 4-Metiltetrahidropirano • 4-Methyltetrahydropyran



Molecular Weight: 100,16

CAS: 4717-96-8

EEC-N: 225-207-5

### Classification transport

ONU: 2924

Transport Hazard class: 3

Packing group II



### Danger

H225-H314

P210-P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

### 4-Methyltetrahydropyran > RE - Pure

RE

Appearance ..... Clear colourless liquid    Colour ..... ≤ 10 Hazen    Density d20/4 ..... 0.855 - 0.865    Assay (GC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
P9990218	500 ml	Glass bottle	
P9990216	1 l	Glass bottle	
P9990221	2.5 l	Glass bottle	



## Methylthymol blue sodium salt

• Blu metiltimolo sale sodico • Bleu de méthylthymol sel de sodium • Azul de metiltimol sal sódica • Methylthymolblau Natriumsalz

Synonym:

3,3'-(Bis[*n,n*-di(carboxymethyl)aminomethyl]thymolsulfonephthalein sodium salt



Molecular Weight: 844,26

CAS: 1945-77-3

EEC-N: 217-743-3



### Warning

H315-H319-H335

P261-P271-P304+P340-P305+P351+P338-

P332+P313-P403+P233

### Methylthymol blue sodium salt > RPE - For analysis

RPE

Description ..... Greenish brown powder    Identification ..... Positive

Code	Size	Packaging	Notes
429021	1 g	Glass bottle	
429022	25 g	Glass bottle	

**Complexometric indicator**



## Methyl yellow

• Giallo metile • Jaune de méthyle • Amarillo de metilo • Methylgelb

Synonym:

• 4-(Dimethylamin)azobenzene  
• *N,N*-Dimethyl-4-(phenylazo)aniline



Molecular Weight: 225,29

CAS: 60-11-7

EEC-N: 200-455-7

### Classification transport

ONU: 3143

Transport Hazard class: 6.1

Packing group III



### Danger

H301-H317

P261-P264-P280g-P301+P310a-P330-P362+P364

### Methyl yellow > RPE - For analysis - C.I. 11020

RPE

Description ..... Yellow orange powder    pH range ..... 2.9 - 4.0    Colour change ..... Red - yellow  
Identification ..... Positive    Loss on drying ..... ≤ 3 %

Code	Size	Packaging	Notes
444552	25 g	Glass bottle	

MIBK ▶ Methyl isobutyl ketone

Mineral oil ▶ Paraffin oil

**Mixture C.H.M.**

• Miscela C.H.M. • Mélange CHM • Mezcla C.H.M. • Mischung C.H.M.

**Classification transport**ONU: 1992  
Transport Hazard class: 3  
Packing group II**Danger**H225-H302-H315-H319-H351-H361d-H336-H372-H410-HEU301  
P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233**Mixture C.H.M. > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Density at 20°C ..... 1.070 ÷ 1.080 Assay (GLC) ..... Conform

Code	Size	Packaging	Notes
524411	2.5 l	Glass bottle	
524412	5 l	Plastic tank	

**Composition: Chloroforme stab. Amylene: 49%(v/v) n-Heptane: 49%(v/v) Methanol: 2%(v/v)****Mix Diethyl ether/Ethanol 70/30 w/w**

• Miscela alcoole-etero 30/70 m/m • Mélange alcool/ether 30/70 m/m • Mezcla alcohol-éter 30/70 p/p • Mische Diethylether / Ethanol 70/30 m/m

**Classification transport**ONU: 1993  
Transport Hazard class: 3  
Packing group II**Danger**H225-H319-H336-HEU019  
P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233**Mix Diethyl ether/Ethanol 70/30 w/w > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 0.740 ÷ 0.750

Code	Size	Packaging	Notes
463251	1 l	Glass bottle	
463255	2.5 l	Glass bottle	

**Contains Phenolphthalein****Mix Diethyl ether / Ethanol 95% 50/50(w/w) - 30 mg/l phenolphthaleine**• Etanolo 95%-Etere etilico 50/50(m/m) - 30 mg/l fenolftaleina • Ethanol 95%-Ether ethylique 50/50(m/m) - 30 mg/l phénolphtaléine  
• Etanol 95% - Etil éter 50/50 (m/m) - 30 mg/l fenolftaleína • Ethanol 95% -Diethylether 50/50 m/m -30 mg/l Phenolphthalin**Classification transport**ONU: 1993  
Transport Hazard class: 3  
Packing group I**Danger**H224-H319-H336-HEU019  
P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233**Mix Diethyl ether / Ethanol 95% 50/50(w/w) - 30 mg/l phenolphthaleine > RS - For analysis****RS**

Description ..... Clear colourless liquid Colour ..... &lt; 10 APHA Density at 20°C ..... 0.757 ÷ 0.767

Code	Size	Packaging	Notes
529371	5 l	Aluminium can	

**Mix Ethanol absolute/Diethyl ether 50/50 (w/w)**• Miscela Etanolo assoluto/Etere Etilico 50/50 (p/p) • Mélange Ethanol absolul/Ether Ethylique 50/50 (m/m) • Mezcla Etanol absoluto/Eter Etilico 50/50 (p/p)  
• Mischung Ethanol absolut/Diethylether 50/50 (m/m)**Classification transport**ONU: 1993  
Transport Hazard class: 3  
Packing group I**Danger**H224-H319-H336-HEU019  
P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233**Mix Ethanol absolute/Diethyl ether 50/50 (w/w) > RE - Pure****RE**

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA

Code	Size	Packaging	Notes
529311	5 l	Aluminium can	





## Mix Ethanol absolute/Diethyl ether 50/50 (v/v)

- Miscela Etanolo assoluto/Etere Etilico 50/50 (v/v) • Mélange Ethanol absolu/Ether Ethylique 50/50 (v/v) • Mezcla Etanol absoluto/Eter Etílico 50/50 (v/v)
- Mischung Ethanol absolut/Diethylether 50/50 (v/v)

### Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group -



### Danger

H224-H319-H336-HEU019  
 P210-P280-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P233

## Mix Ethanol absolute/Diethyl ether 50/50 (v/v) > RE - Pure

RE

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Density at 20°C ..... ~ 0.757

Code	Size	Packaging	Notes
529381	5 l	Aluminium can	



## Mixture Ethanol 95° / Isopropanol

- Miscela Etanolo 95° / Isopropanolo • Mélange éthanol 95° / 2-propanol • Mezcla etanol 95° / 2-propanol • Mischung Ethanol 95° / Isopropanol

### Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H319  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P337+P313

## Mixture Ethanol 95° / Isopropanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid Density d20/4 ..... 0.78 - 0.80 Propan-2-ol content ..... ≤ 15 % (w/w)  
 Water (K.F.) ..... ≤ 5 % Ethanol content ..... ≥ 80 % (w/w) Assay (alcoholic) Total at 20°C ..... 94 - 96 % (V/V)

Code	Size	Packaging	Notes
414551	5 l	Plastic tank	In Vitro Diagnostic Medical Device



## Mixture Ethanol 99° / Isopropanol

- Miscela Etanolo 99° / Isopropanolo • Mélange éthanol 99° / 2-propanol • Mezcla etanol 99°/2-propanol • Mischung Ethanol 99° / Isopropanol

### Classification transport

ONU: 1987  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H319  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P337+P313

## Mixture Ethanol 99° / Isopropanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid Density d20/4 ..... 0.78 - 0.80 Propan-2-ol content ..... 5 - 15 % (w/w)  
 Water (K.F.) ..... ≤ 0.5 % Ethanol content ..... 85 - 95 % (w/w) Assay (alcoholic) Total at 20°C ..... ≥ 99 % (V/V)

Code	Size	Packaging	Notes
414511	5 l	Plastic bottle	In Vitro Diagnostic Medical Device



## Mixture for bromine index determination

- Miscela per la determinazione dell'indice di bromo • Mélange pour indice de brome • Mezcla para la determinación de índice de bromo
- Mischung für Bromindex

### Classification transport

ONU: 2920  
 Transport Hazard class: 8  
 Packing group II



### Danger

H226-H302-H314-H351-H370-H373  
 P210-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## Mixture for bromine index determination > RS - For analysis

RS

Refractive index at 20°C ..... 1.375 - 1.379 Density d20/4 ..... 1.060 - 1.068

Code	Size	Packaging	Notes
PS0573/21	2.5 l	Glass bottle	

**Mixture for checking solderings**

- Miscela per il controllo delle saldature degli imballaggi • Mélange pour le contrôle des soudures des emballages
- Mezcla para el control de soldaduras de envases • Mischung zur Kontrolle von Lötungen

**Classification transport**

ONU: 1219  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H319-H336  
 P210-P280-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P233

**Mixture for checking solderings > RS - For agroalimentary analysis**

RS

Description ..... Clear purple liquid Density at 20°C ..... 0.788 ÷ 0.798

Code	Size	Packaging	Notes
502671	5 l	Plastic tank	

**Mixtures for residual solvents analysis**

- Soluzioni standard per la ricerca di solventi residui • Mélanges pour la recherche des solvants résiduels • Mezclas para disolventes residuales analisis
- Gemische zum Nachweis von Restlösemitteln

**Mixtures for residual solvents analysis > RS - For analysis according to Ph. Eur. Chap. 2.4.24**

RS

Code	Size	Packaging	Notes
507688	1 ml	Glass ampoule	5 elements (Class 1): Benzene 4mg/ml; 1,2-Dichloroethane 10mg/ml; Tetrachloromethane 8mg/ml; 1,1-Dichloroethene 16mg/ml; 1,1,1-Tric hloroethane 20mg/ml; Matrix: Dimethylsulphoxide
507689	1 ml	Glass ampoule	14 elements (Class 2): Chlorobenzene 360µg/ml; Cyclohexane 3880µg/ml; cis-1,2-Dichloroethene 1870µg/ml; Dichloromethane 600µg/ml; Ethylbenzene 369µg/ml; n-Hexane 290µg/ml; Methylcyclohexane 1180µg/ml; n,n-Dimethylformamide 880µg/ml; Toluene 890µg/ml; 1,1,2-Trichloroethene 80µg/ml; m-Xylene 1302µg/ml; o-Xylene 195µg/ml; p-Xylene 304µg/ml; Tetrahydrofuran 720µg/ml; Matrix: Dimethylsulfoxide
507690	1 ml	Glass ampoule	11 elements (Class 2): Acetonitrile 410mg/l; Chloroform 60mg/l; 1,2-Dimethoxyethane 100mg/l; n,n-Dimethylacetamide 1090mg/l; Dioxan 380mg/l; 2-Hexanone 50mg/l; Methanol 3000mg/l; Nitromethane 50mg/l; Pyridine 200mg/l; 1,2,3,4-Tetrahydronaphthalene 100mg/l; Isop ropylbenzene (Cumene) 70mg/l; Matrix: Dimethylsulphoxide/ Water
507691	1 ml	Glass ampoule	6 elements (Class 2): Ethyleneglycol-monoethyl ether (2-Ethoxyethanol) 160mg/l; Ethyleneglycol 620mg/l; Formamide 220mg/l; Ethylene glycol-monomethyl ether (2-Methoxyethanol) 50mg/l; 1-Methyl-2-pyrrolidon 4840mg/l; Sulfolan 160mg/l; Matrix: Water

**Mixtures for residual solvents analysis > RS - For analysis according to USP – Residual solvents**

RS

Code	Size	Packaging	Notes
507692	1 ml	Glass ampoule	5 elements (Class 1): Benzene 10mg/ml; Tetrachloromethane (Carbon tetrachloride) 20mg/ml; 1,2-Dichloroethane 25mg/ml; 1,1-Dichloroethene 40mg/ml; 1,1,1-Trichloroethane 50mg/ml; Matrix: Dimethylsulphoxide
507693	1 ml	Glass ampoule	16 elements (Class 2): Acetonitrile 2.05mg/ml; Chlorobenzene 1.8mg/ml; Cumene 0.34mg/ml; Cyclohexane 19.4mg/ml; cis-1,2-Dichloroethene 4.7mg/ml; trans-1,2-Dichloroethene 4.7mg/ml; 1,4-Dioxan 1.9mg/ml; Ethylbenzene 1.84mg/ml; Methanol 15mg/ml; Methylcyclohexane 5.9mg/ml; Dichloromethane 3mg/ml; Tetrahydrofuran 3.6mg/ml; Toluene 4.45mg/ml; m-Xylene 6.51mg/ml; o-Xylene 0.98mg/ml; p-Xylene 1.52mg/ml; Matrix: Dimethylsulphoxide
507694	1 ml	Glass ampoule	8 elements (Class 2): Chloroform 60µg/ml; 1,2-Dimethoxyethane 100µg/ml; n-Hexane 290µg/ml; 2-Hexanone 50µg/ml; Nitromethane 50µg/ml; Pyridine 200µg/ml; 1,2,3,4-Tetrahydronaphthalene (Tetralin) 100µg/ml; Trichloroethene 80µg/ml; Matrix: Dimethylsulphoxide



## Molecular sieves 3 A

• Setacci molecolari 3 A • Tamis moléculaire 3 A • Tamices moleculares 3 A • Molekularsieb 3 A

HEU210

### Molecular sieves 3 A > RS - Pellets 1/16"

RS

Description ..... Beige granules Identification ..... Positive Apparent density ..... 700 ÷ 800 g/l

Code	Size	Packaging	Notes
477731	250 g	Glass bottle	

### Molecular sieves 3 A > RS - Pellets 1/8"

RS

Description ..... Sferetti e 1/8" Identification ..... Positive

Code	Size	Packaging	Notes
477721	250 g	Glass bottle	

### Molecular sieves 3 A > RS - Pure

RS

Code	Size	Packaging	Notes
P1810017	1 kg	Plastic bottle	

**Pellets between 1/8" and 1/16"**



## Molecular sieves 4 A

• Setacci molecolari 4 A • Tamis moléculaire 4 A • Tamices moleculares 4 A • Molekularsieb 4A

HEU210

### Molecular sieves 4 A > RS - Pellets

RS

Code	Size	Packaging	Notes
P1820017	1 kg	Plastic bottle	
P1820027	5 kg	Plastic bucket	
P1820047	25 kg	Plastic bucket	

**Granulometry: 1.6-2.5 mm**



## Molybdenum standard solution

• Molibdeno standard soluzione • Molybdène solution standard • Molibdeno, solución patrón • Molybdän-Standardlösung

### Molybdenum standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505722	100 ml	Plastic bottle	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid
505725	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid
505723	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Molybdenum standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503731	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Ammonium hydroxide
503733	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Ammonium hydroxide
503735	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Ammonium hydroxide
503737	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Ammonium hydroxide

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Molybdenum standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507747	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrofluoric acid and nitric acid
507494	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
E497565	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Ammonium hydroxide
E497561	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Ammonium hydroxide

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Molybdenum standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
463431		Plastic ampoule	conc. 1.000 ppm Matrix: Ammonium hydroxide - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

**Molybdenum (VI) oxide**

• Anidride molibdica • Anhydride molybdique • Anhídrido molibdénico • Molybdän (VI) oxid

Synonym:

Molybdenum trioxide

MoO<sub>3</sub>

Molecular Weight: 143,94

CAS: 1313-27-5

EEC-N: 215-204-7

**Classification transport**

ONU: 3288

Transport Hazard class: 6.1

Packing group III

**Warning**

H319-H351-H335

P261-P271-P280-P304+P340-P305+P351+P338-P403+P233

**Molybdenum (VI) oxide > RPE - For analysis**

RPE

Description ..... White, slightly yellow, green, or gray solid Chloride ..... ≤ 50 ppm Sulphate ..... ≤ 200 ppm  
 Identification ..... Positive Phosphate ..... ≤ 5 ppm Fe ..... ≤ 50 ppm  
 Ammonium ..... ≤ 100 ppm Nitrate ..... ≤ 100 ppm Assay (oxidimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
422004	100 g	Glass bottle	
422005	250 g	Glass bottle	

**Molybdophosphoric acid ▶ Phosphomolybdic acid****Molybdovanadic reagent**

• Reattivo molibdovanadico • Réactif molybdovanadique • Reactivo molibdenovanádico • Molybdovanadisches Reagens

**Classification transport**

ONU: 1760

Transport Hazard class: 8

Packing group III

**Danger**

H302-H314-H335

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338-P403+P233

**Molybdovanadic reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611056700	100 ml	Plastic bottle	Ref Ph.Eur 1056700

**Mordant Black 11 ▶ Eriochrome black T****Mordant Red 11 ▶ Alizarin**

**Morpholine**  
 • Morfolina • Morpholine • Morfolina • Morpholin

Synonym:  
Tetrahydro-1,4-oxazine

NH(CH<sub>2</sub>)<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>  
 Molecular Weight: 87,12  
 CAS: 110-91-8  
 EEC-N: 203-815-1

**Classification transport**  
 ONU: 2054  
 Transport Hazard class: 8  
 Packing group I



**Danger**  
 H226-H302-H312-H332-H314  
 P210-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338-P362+P364

**Morpholine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP**

**RPE**

Description ..... Clear liquid      Identification ..... Positive      Boiling point ..... 126.0 ÷ 130.0 °C  
 Colour (APHA) ..... ≤ 10      Assay (acidimetric) ..... ≥ 99.0 %      Density at 20°C ..... ~ 1.01

Code	Size	Packaging	Notes
463453	1 l	Glass bottle	

**MTBE ▶ tert-Butylmethylether**

**Mucicarmin hydroalcoholic solution**  
 • Mucicarminio soluzione idroalcolica • Mucicarmin en solution hydroalcoolique • Mucicarmin solución hidroalcohólica  
 • Mucicarmin in hydroalkoholischer Lösung

**Classification transport**  
 ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H319  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P337+P313

**Mucicarmin hydroalcoholic solution > RS - For microscopy**

**RS**

Description ..... Red clear liquid      Identification ..... Positive

Code	Size	Packaging	Notes
463531	100 ml	Glass bottle	

**Ethanol-water mixture (50:50)**

**Multianions standard for ion chromatography**  
 • Standard multianione per cromatografia ionica • Etalon multiéléments pour chromatographie ionique • Patrón multielementos para cromatografía iónica  
 • Multianionen-Standard für die Ionenchromatographie

**Classification transport**  
 ONU: 3264  
 Transport Hazard class: 8  
 Packing group II

**Multianions standard for ion chromatography > RS - Standard solution according to EPA method**

**RS**

Code	Size	Packaging	Notes
504526	100 ml	Plastic bottle	7 elements: Br-, Cl-, NO <sub>3</sub> -, NO <sub>2</sub> -, PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> , F- 1g/l each - Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Multianions standard for ion chromatography > RS - Quality control Standard**

**RS**

Code	Size	Packaging	Notes
504527	100 ml	Plastic bottle	7 elements: Br- 100ppm, SO <sub>4</sub> <sup>2-</sup> 150ppm, PO <sub>4</sub> <sup>3-</sup> 50ppm, Cl- 30ppm, NO <sub>2</sub> - 30ppm, NO <sub>3</sub> - 20ppm, F- 20 ppm - Matrix: Water
504677	500 ml	Plastic bottle	7 elements: F- 20mg/l; Cl- 100mg/l; NO <sub>2</sub> - 100mg/l; Br- 100mg/l; NO <sub>3</sub> - 100mg/l; PO <sub>4</sub> <sup>3-</sup> 200mg/l; SO <sub>4</sub> <sup>2-</sup> 100mg/l; Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Multielement standard for ICP

• Standard multielemento per ICP • Etalon multiéléments pour ICP • Patrón multielementos para ICP • Multielement-Standard für ICP

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Multielement standard for ICP > RS - For analysis according to USP – WK Dietary supplement

RS

Code	Size	Packaging	Notes
506120	100 ml	Plastic bottle	4 elements: Cd 5mg/l; Pb 10mg/l; As 15mg/l; Hg 15mg/l. Matrix: 7% HNO <sub>3</sub>

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Multielement standard for ICP > RS - For analysis according to USP – Oral elemental impurities

RS

Code	Size	Packaging	Notes
506110	100 ml	Plastic bottle	8 elements: Cd 25mg/l; Pb 5mg/l; As 1.5mg/l; Hg 15mg/l; Mo 100mg/l; Ni 500mg/l; V 100mg/l; Cu 1000mg/l. Matrix: 7% HNO <sub>3</sub>
506150	100 ml	Plastic bottle	Precious metals - 6 elements: Ir 100 mg/l, Pt 100 mg/l; Os 100 mg/l; Rh 100 mg/l; Pd 100 mg/l; Ru 100 mg/l. Matrix: 15% HCl

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Multielement standard for ICP > RS - For analysis according to USP – Parenteral elemental impurities

RS

Code	Size	Packaging	Notes
506130	100 ml	Plastic bottle	Precious metals - 6 elements: Ir 10 mg/l, Pt 10 mg/l; Os 10 mg/l; Rh 10 mg/l; Pd 10 mg/l; Ru 10 mg/l. Matrix: 15% HCl
506140	100 ml	Plastic bottle	8 elements: Cd 2.5mg/l; Pb 5mg/l; As 1.5mg/l; Hg 1.5mg/l; Mo 10mg/l; Ni 50mg/l; V 10mg/l; Cu 100mg/l. Matrix: 7% HNO <sub>3</sub>

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Multielement standard for ICP > RS - Optimisation solution

RS

Code	Size	Packaging	Notes
504396	500 ml	Plastic bottle	13 elements: Al, Mg, Cr, Mn, Cu, Rh, In, Cd, Ce, Pb, Th, B, Ba 0,01mg/ml each - Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z



## Multielement standard for ICP > RS - Quality control Standard

RS

Code	Size	Packaging	Notes
504350	100 ml	Plastic bottle	22 elements: As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix: Nitric acid
504354	100 ml	Plastic bottle	33 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Nb, Ni, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 1ppm each - Matrix: Nitric acid
504356	100 ml	Plastic bottle	40 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, Ga, Ge, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Pd, Rb, Sb, Se, Sn, Sr, Ta, Ti, Tl, U, V, W, Zn, Zr 1ppm each - Matrix: Nitric acid
504351	500 ml	Plastic bottle	22 elements: As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix: Nitric acid
504353	500 ml	Plastic bottle	28 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix: Nitric acid
504355	500 ml	Plastic bottle	33 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Nb, Ni, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 1ppm each - Matrix: Nitric acid
504357	500 ml	Plastic bottle	40 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, Ga, Ge, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Pd, Rb, Sb, Se, Sn, Sr, Ta, Ti, Tl, U, V, W, Zn, Zr 1ppm each - Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Multielement standard for ICP > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504301	100 ml	Plastic bottle	6 elements: Au, Ir, Pb, Pt, Rh, Ru 100ppm each - Matrix: Nitric acid
504303	100 ml	Plastic bottle	16 elements: Al, As, Ba, Be, Bi, Ca, Cs, Ga, In, K, Li, Mg, Na, Rb, Se, Sr 100ppm each - Matrix: Nitric acid
504305	100 ml	Plastic bottle	13 elements: Ag, Cd, Co, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Tl, V, Zn 100ppm each - Matrix: Nitric acid
504480	100 ml	Plastic bottle	24 components: Ag 1mg/kg; Sb 1mg/kg; As 1mg/kg; Mn 1mg/kg; Cd 1mg/kg; Cr 1mg/kg; Ti 1mg/kg; Pb 1mg/kg; Co 1mg/kg; Ni 1mg/kg; Se 1mg/kg; V 1mg/kg; Mo 1mg/kg; Sn 1mg/kg; Ba 1mg/kg; Be 1mg/kg; Li 1mg/kg; Tl 1mg/kg; Bi 1mg/kg; Al 10mg/kg; Cu 10mg/kg; Fe 10mg/kg; B 10mg/kg; Zn 10mg/kg - Matrix: nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Multielement standard for ICP > RS - Calibrating solution

**RS**

Code	Size	Packaging	Notes
504306	100 ml	Plastic bottle	22 elements: As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix: Nitric acid
504308	100 ml	Plastic bottle	28 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix: Nitric acid
504310	100 ml	Plastic bottle	33 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 100ppm - Matrix: Nitric acid
504312	100 ml	Plastic bottle	9 elements: Au, Ir, Os, Pb, Pt, Rh, Ru, Sn, Te 100ppm each - Matrix: Hydrochloric acid
504307	500 ml	Plastic bottle	22 elements: As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix: Nitric acid
504309	500 ml	Plastic bottle	28 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix: Nitric acid
504311	500 ml	Plastic bottle	33 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 100ppm each - Matrix: Nitric acid
504313	500 ml	Plastic bottle	9 elements: Au, Ir, Os, Pb, Pt, Rh, Ru, Sn, Te 100ppm each - Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Multielement standard for ICP and ICP-MS

- Standard multielemento per ICP e ICP-MS • Etalon multiéléments pour ICP et ICP-MS • Patrón multielementos para ICP e ICP-MS
- Multielement-Standard für ICP und ICP-MS

**Classification transport**  
 ONU: 3264  
 Transport Hazard class: 8  
 Packing group II

## Multielement standard for ICP and ICP-MS > RS - Solution de Tuning pour ICP-MS

**RS**

Code	Size	Packaging	Notes
504392	100 ml	Plastic bottle	9 elements: Be, Mg, Co, In, Rh, Ce, Ba, Pb, U 10ppm each - Matrix: Nitric acid
504393	100 ml	Plastic bottle	13 elements: Ba, Be, Bi, Ce, Cu, Ho, In, Li, Mg, Pb, Tl, U, Y 10ppm each - Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Multielement standard for ICP and ICP-MS > RS - Quality control standard solution

**RS**

Code	Size	Packaging	Notes
504352	100 ml	Plastic bottle	28 elements: Al, Ag, As, B, Ba, Be, Bi, Ca, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

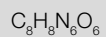


## Murexide

• Muresside • Murexide • Murexida • Murexid

Synonym:

5,5'-Nitrilodibarbituric acid monoammonium salt



Molecular Weight: 284,19

CAS: 3051-09-0

EEC-N: 221-266-6

### Murexide > RPE - For analysis - C.I. 56085

RPE

Description ..... Red violet powder      Identification ..... Positive      Loss on drying ..... ≤10 %      Residue on ignition ..... ≤0.5 %

Code	Size	Packaging	Notes
463608	5 g	Glass bottle	
463609	25 g	Glass bottle	

**Complexometric indicator**



## Naphthalene

• Naftalene • Naphtalène • Naftaleno • Naphthalin

$C_{10}H_8$

Molecular Weight: 128,17

CAS: 91-20-3

EEC-N: 202-049-5

### Classification transport

ONU: 1334

Transport Hazard class: 4.1

Packing group III



### Warning

H302-H351-H410

P264-P280-P301+P312a-P330-P308+P313-P501a

### Naphthalene > RPE - For analysis

RPE

Description ..... White flakes Identification ..... Positive Melting point .....  $79 \div 82 \text{ }^\circ\text{C}$  Assay (GLC) .....  $\geq 98.5 \%$

Code	Size	Packaging	Notes
463654	100 g	Plastic bottle	
463655	250 g	Plastic bottle	
463651	1 kg	Plastic bottle	



## 1-Naphthol

• 1-Naftolo • 1-Naphtol • 1-Naftol • 1-Naphthol

Synonym:

1-Hydroxynaphthalene

$C_{10}H_7OH$

Molecular Weight: 144,17

CAS: 90-15-3

EEC-N: 201-969-4



### Danger

H302-H312-H315-H318-H335

P304+P340-P310a-P305+P351+P338-P330-

P362+P364-P403+P233

### 1-Naphthol > RPE - For analysis

RPE

Description ..... Grey-brown flakes Identification ..... Positive Melting point .....  $94 \div 98 \text{ }^\circ\text{C}$  Assay (GLC) .....  $\geq 97.5 \%$

Code	Size	Packaging	Notes
463935	250 g	Plastic bottle	

### 1-Naphthol > RE - Pure

RE

Description ..... White pinkish crystals Melting point .....  $94 \div 98 \text{ }^\circ\text{C}$  Assay (GLC) .....  $\geq 98 \%$

Identification ..... Positive á-Naphthole .....  $\leq 1 \%$

Code	Size	Packaging	Notes
354751	250 g	Plastic bottle	



## 2-Naphthol

• 2-Naftolo • 2-Naphtol • 2-Naftol • 2-Naphthol

Synonym:

2-Hydroxynaphthalene

$C_{10}H_7OH$

Molecular Weight: 144,17

CAS: 135-19-3

EEC-N: 205-182-7

### Classification transport

ONU: 3077

Transport Hazard class: 9

Packing group III



### Warning

H302-H332-H400

P261-P264-P271-P301+P312a-P304+P340-P501a

### 2-Naphthol > RPE - For analysis - C.I. 37500

RPE

Description ..... Flakes pinky Identification ..... Positive Melting point .....  $\geq 120 \text{ }^\circ\text{C}$  Assay (GLC) .....  $\geq 99.0 \%$

Code	Size	Packaging	Notes
463984	100 g	Plastic bottle	
463986	500 g	Plastic bottle	

**alpha-Naphtholbenzein**  
 • alfa-Naftolbenzeina • alpha-Naphtolbenzéine • alpha-Naftolbenzeína • alpha-Naphtolbenzol  
 Synonym: 4,4'-(alpha-Hydroxybenzylidene)di-1-naphtol

$C_{27}H_{18}O_2$   
 Molecular Weight: 374,44  
 CAS: 145-50-6  
 EEC-N: 205-656-3

**Warning**  
 H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

### alpha-Naphtholbenzein > RPE - For analysis

RPE

Description ..... Red brown powder Identification ..... Positive Suitability for anhydrous titration ..... Conform

Code	Size	Packaging	Notes
463891	5 g	Glass bottle	

**Acid-base indicator**

**alpha-Naphtholbenzein solution 0.2% in acetic acid**  
 • alfa-Naftolbenzeina soluzione 0.2% in acido acetico  
 • alpha-Naphtolbenzéine solution 0.2% dans acide acétique  
 • alfa-Naftolbenzeína solución 0.2% en acido acético • alpha-Naphtolbenzollösung 0.2% in Essigsäure  
 Synonym: 4,4'-(alpha-Hydroxybenzylidene)di-1-naphtol

$C_{27}H_{18}O_2$   
 Molecular Weight: 374,44  
 CAS: 145-50-6

**Classification transport**  
 ONU: 2789  
 Transport Hazard class: 8  
 Packing group II

**Danger**  
 H226-H314  
 P210-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

### alpha-Naphtholbenzein solution 0.2% in acetic acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611057601	100 ml	Glass bottle	Ref Ph.Eur 1057601

**Naphthol yellow S**  
 • Giallo naftolo S • Jaune naphtol S • Amarillo naftol S • Gelbes Naphtol S  
 Synonym: Acid yellow 1 | Flavinic acid sodium salt | 2,4-Dinitro-1-naphtol-7-sulfonic acid sodium salt

$C_{10}H_4N_2Na_2O_8S$   
 Molecular Weight: 358,19  
 CAS: 846-70-8  
 EEC-N: 212-690-2

**Classification transport**  
 ONU: 3143  
 Transport Hazard class: 6.1  
 Packing group III

**Warning**  
 H302-H312-H332  
 P261-P264-P271-P280h-P301+P312a-P304+P340

### Naphthol yellow S > RS - For microscopy - C.I. 10316

RS

Description ..... P.v xx.na giallo arancio Identification ..... Positive

Code	Size	Packaging	Notes
453562	25 g	Glass bottle	

**Dye for histology**

**N-(1-Naphtyl)ethylenediamine dihydrochloride**  
 • N-(1-Naftil)etilendiammina dicloridrato • N-(1-Naphtyl)éthylènediamine dichlorhydraté  
 • N-(1-Naftil)etilendiammina diclorhidrato • N-(1-Naphtyl) ethylendiamin-dihydrochlorid  
 Synonym: 2-(1-Naphtylamino)ethylamine dihydrochloride

$C_{10}H_{17}NHCH_2CH_2NH_2 \cdot 2HCl$   
 Molecular Weight: 259,18  
 CAS: 1465-25-4  
 EEC-N: 215-981-2

**Warning**  
 H315-H319  
 P264-P280a-P305+P351+P338-P332+P313-  
 P362+P364-P337+P313

### N-(1-Naphtyl)ethylenediamine dihydrochloride > RPE - For analysis

RPE

Description White or beige powder, crystal or chunks Identification ..... Positive Water ..... ≤ 5 % Titolo (TLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
463831	10 g	Glass bottle	

**Search for sulfonamides in the blood and spectrophotometric determination of nitrites and nitrates for FIA middle**

**NDF Plus solution**

• Soluzione NDF PLUS • Solution NDF PLUS • Solución NDF PLUS • Lösung NDF PLUS

**Warning**H319  
P264-P280i-P305+P351+P338-P337+P313**NDF Plus solution > RPE - For agroalimentary analysis****RPE**

Appearance ..... Clear liquid

Code	Size	Packaging	Notes
526941	25 l	Plastic tank	

**Composition: Sodium laurylsulfate: 30 g; EDTA: 18.61 g; Sodium borate: 6.81 g; Hydrogenophosphate disodique: 4.6 g; Glycol monoethylether: 10 ml; Water: QSP 1 L according to NF V18-122****NDF Solution**

• Soluzione NDF • Solution NDF • Solución NDF • Lösung NDF

**Danger**H319-H360FD-HA26  
P264-P280-P305+P351+P338-P308+P313-  
P337+P313-P501a**NDF Solution > RPE - For agroalimentary analysis****RPE**

Description ..... Clear liquid Density at 20°C ..... 1.010 ÷ 1.025 pH at 20°C ..... 6.10 ÷ 7.10

Code	Size	Packaging	Notes
526920	2.5 l	Glass bottle	
526921	25 l	Plastic tank	

**Composition: Sodium laurylsulfate: 30 g; EDTA: 18.61 g; Sodium borate: 6.81 g; Hydrogenophosphate disodique: 4.6 g; Glycol monoethylether: 10 ml; Water: QSP 1l according to NF V18-122****Neocuproine hydrochloride**

• Neocuproina cloridrato • Néocuproïne chlorhydraté • Neocuproina clorhidrato • Neocupronhydrochlorid

Synonym:

2,9-Dimethyl-1,10-phenanthroline hydrochloride

C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>.HCl.H<sub>2</sub>O  
Molecular Weight: 244,72 (an.)  
CAS: 7296-20-0  
EEC-N: 230-732-8**Warning**H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233**Neocuproine hydrochloride > RPE - For analysis****RPE**

Description ..... Yellowish powder Identification ..... Positive Copper sensitivity ..... ≥0.3 µg/ml Assay (non-aqueous medium) ..... ≥99 % s s

Code	Size	Packaging	Notes
444731	1 g	Glass bottle	

**Neodymium standard solution**

• Neodimio standard soluzione • Néodyme solution standard • Neodimio, solución patrón • Neodym-Standardlösung

**Classification transport**ONU: 3267  
Transport Hazard class: 8  
Packing group III**Neodymium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505742	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505745	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Neodymium standard solution > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
503761	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503763	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503765	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503767	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Neodymium standard solution > RS - Standard solution for AAS

**RS**

Code	Size	Packaging	Notes
507748	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507510	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Nessler's reagent single solution

• Nessler reattivo soluzione unica • Réactif de Nessler solution • Nessler reactivo solución única • Nesslers Reagenzlösung

### Classification transport

ONU: 2922  
 Transport Hazard class: 8  
 Packing group II



### Danger

H301-H314-H341-H373-H412  
 P280-P301+P310a-P301+P330+P331-  
 P303+P361+P353-P304+P340-P305+P351+P338

## Nessler's reagent single solution > RPE - For analysis

**RPE**

Description ..... Yellow clear liquid Identification ..... Positive Sensibilità all'azoto ..... Conform

Code	Size	Packaging	Notes
464231	500 ml	Plastic bottle	
464232	1 l	Plastic bottle	

**For the determination of ammonia and ammonium salt**



## Nessler's reagent solution A

• Nessler reattivo soluzione A • Réactif de Nessler solution A • Nessler reactivo solución A • Nessler Reagenzlösung A

### Classification transport

ONU: 3287  
 Transport Hazard class: 6.1  
 Packing group II



### Danger

H301-H311-H373-H411  
 P260-P264-P280h-P301+P310a-P330-P361+P364

## Nessler's reagent solution A > RPE - For analysis

**RPE**

Description ..... Yellow clear liquid Identification ..... Positive Density at 20° C ..... ≥1.2

Code	Size	Packaging	Notes
464422	500 ml	Plastic bottle	

**For the determination of nitrogen**

**Nessler's reagent solution B**

• Nessler reattivo soluzione B • Réactif de Nessler solution B • Nessler reactivo solución B • Natriumhydroxid

**Classification transport**ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Nessler's reagent solution B > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Assay ..... 20.50 ÷ 21.50 % (NaOH)

Code	Size	Packaging	Notes
464432	500 ml	Plastic bottle	

**For the determination of nitrogen****Neutral red**

• Rosso neutro • Rouge neutre • Rojo neutro • Neutralrot

Synonym:

3-Amino-7-dimethylamino-2-methylphenazine  
hydrochloride $C_{15}H_{17}ClN_4$ 

Molecular Weight: 288,78

CAS: 553-24-2

EEC-N: 209-035-8

**Classification transport**ONU: 3143  
Transport Hazard class: 6.1  
Packing group III**Warning**H302  
P264-P270-P301+P312a-P330-P501a**Neutral red > RPE - For analysis - C.I. 50040****RPE**Description ..... Green-brown powder Loss on drying ..... ≤ 5 % pH range ..... 6.8 ÷ 8.0  
Identification ..... Positive Colour change ..... red - yellow

Code	Size	Packaging	Notes
476951	10 g	Glass bottle	

**Dye for microscopy (histology, hematology).****Nickel, powder**

• Nichel, polvere • Nickel, poudre • Níquel, polvo • Nickel, Pulver

Ni

Molecular Weight: 58,71

CAS: 7440-02-0

EEC-N: 231-111-4

**Danger**H317-H351-H372  
P260-P264-P280-P308+P313-P362+P364-  
P333+P313**Nickel, powder > RPE - For analysis****RPE**

Description ..... Polvere metallica Identification ..... Positive Assay ..... ≥ 98 %

Code	Size	Packaging	Notes
464384	100 g	Glass bottle	

**Nickel standard solution**

• Nichel standard soluzione • Nickel solution standard • Níquel, solución patrón • Nickel-Standardlösung

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Warning**H290-HEU208  
P234-P390-P406**Nickel standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615002001	100 ml	Plastic bottle	A 0.1 ppm solution: to dilute according to Ref Ph.Eur 5002001
615002002	100 ml	Plastic bottle	A 0.2 ppm solution: to dilute according to Ref Ph.Eur 5002002
615002009	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5002000

## Nickel standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505752	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505755	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505753	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Nickel standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503771	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503773	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503775	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503777	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Nickel standard solution > RS - Standard solution for AAS

RS

Description ..... Green clear liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507749	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507487	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497575	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497571	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Nickel standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
464271		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

## Nickel standard solution > RS - Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504363	50 ml	Plastic bottle	conc. 10 +/- 1 µg/L Matrix: 2% Nitric acid



## Nickel (II) acetate tetrahydrate

- Nichel acetato oso tetraidrato • Nickel (II) acétate tétrahydraté • Níquel (II) acetato
- Nickel (II) acetattetrahydrat

Synonym:  
Acetic acid nickel(II) salt

Ni(CH<sub>3</sub>COO)<sub>2</sub>·4H<sub>2</sub>O  
Molecular Weight: 248,86  
CAS: 6018-89-9



### Warning

H302-H332-H317-H351  
P261-P271-P280-P304+P340-P308+P313-P330

## Nickel (II) acetate tetrahydrate > RPE - For analysis

RPE

Description ..... Green powder Cr..... ≤ 5 ppm Mn ..... ≤ 20 ppm Assay ..... 23 ÷ 24 % (Ni)  
Identification ..... Positive Cu..... ≤ 10 ppm Pb ..... ≤ 5 ppm  
Co ..... ≤ 0.2 % Fe..... ≤ 20 ppm Zn ..... ≤ 10 ppm

Code	Size	Packaging	Notes
464474	100 g	Plastic bottle	
464476	500 g	Plastic bottle	
464477	1 kg	Plastic bottle	



## Nickel (II) ammonium sulfate hexahydrate

• Nichel ammonio solfato oso • Nickel (II) ammonium sulfate hexahydraté • Níquel (II) amonio sulfato hexahidrato • Nickel (II) ammoniumsulfathexahydrat

$Ni(NH_4)_2(SO_4)_2 \cdot 6H_2O$   
Molecular Weight: 395  
CAS: 7785-20-8



### Danger

H302-H332-H334-H317-H341-H350i-H360D-H372-H410-HA26  
P271-P280-P284-P304+P340-P308+P313-P342+P311a

### Nickel (II) ammonium sulfate hexahydrate > RPE - For analysis

#### RPE

Description .. Green-blue crystalline powder	Nitrate ..... ≤ 100 ppm	Cu ..... ≤ 10 ppm	Zn ..... ≤ 20 ppm
Identification ..... Positive	Subst. not ppt. (NH4)2S ..... ≤ 0.2 %	Fe ..... ≤ 10 ppm	Assay (complexometric) ..... 99 ÷ 100 %
pH sol. 5% at 25° C ..... 4.3 ÷ 4.7	Ca ..... ≤ 50 ppm	K ..... ≤ 200 ppm	
Chloride ..... ≤ 10 ppm	Cd ..... ≤ 20 ppm	Na ..... ≤ 200 ppm	
Water-insoluble matter ..... ≤ 30 ppm	Co ..... ≤ 10 ppm	Pb ..... ≤ 10 ppm	

Code	Size	Packaging	Notes
464545	250 g	Plastic bottle	
464547	1 kg	Plastic bottle	

**Low content in cobalt**



## Nickel (II) carbonate basic

• Nichel carbonato oso basico • Nickel (II) carbonate basique • Níquel (II) carbonato básico • Nickel (II) carbonat basisch

$NiCO_3 \cdot 2Ni(OH)_2 \cdot 4H_2O$   
Molecular Weight: 376,23  
CAS: 39430-27-8  
EEC-N: 235-715-9



### Danger

H302-H332-H315-H334-H317-H341-H350i-H360D-H372-H410-HA26  
P271-P280-P284-P304+P340-P308+P313-P342+P311a

### Nickel (II) carbonate basic > RPE - For analysis

#### RPE

Description ..... Green powder	Diluted HCl-ins. matter ..... ≤ 500 ppm	Fe ..... ≤ 100 ppm	Assay (complexometric) ..... ≥ 45 % (Ni)
Identification ..... Positive	Co ..... ≤ 0.1 %	Pb ..... ≤ 50 ppm	
Chloride ..... ≤ 0.1 %	Cu ..... ≤ 50 ppm	Zn ..... ≤ 50 ppm	

Code	Size	Packaging	Notes
464604	100 g	Plastic bottle	
464605	1 kg	Plastic bottle	



## Nickel (II) chloride hexahydrate

• Nichel cloruro oso esaidrato • Nickel (II) chlorure hexahydraté • Níquel (II) cloruro hexahidratado • Nickel (II) chloridhexahydrat

$NiCl_2 \cdot 6H_2O$   
Molecular Weight: 237,7  
CAS: 7791-20-0  
EEC-N: 231-743-0

### Classification transport

ONU: 3288  
Transport Hazard class: 6.1  
Packing group III



### Danger

H301-H334-H317-H351  
P261-P280-P284-P301+P310a-P304+P340-P342+P311a

### Nickel (II) chloride hexahydrate > RPE - For analysis

#### RPE

Description ..... Green crystals	Co ..... ≤ 10 ppm	Pb ..... ≤ 5 ppm	Ni ..... ≥ 24 %
Identification ..... Positive	Cu ..... ≤ 10 ppm	Zn ..... ≤ 5 ppm	
Cd ..... ≤ 10 ppm	Fe ..... ≤ 10 ppm	Assay (argentimetric) ..... ≥ 97 %	

Code	Size	Packaging	Notes
464644	100 g	Glass bottle	
464645	250 g	Plastic bottle	
464647	1 kg	Plastic bottle	

**Low content in cobalt**



## Nickel (II) nitrate hexahydrate

• Nichel nitrato oso esaidrato • Nickel (II) nitrate hexahydraté • Níquel (II) nitrato hexahidratado • Nickel (II) nitrathexahydrat

Ni(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 290,81  
CAS: 13478-00-7  
EEC-N: 236-068-5

**Classification transport**  
ONU: 2725  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272-H302-H334-H317-H351  
P210-P261-P280-P284-P304+P340-P342+P311a

### Nickel (II) nitrate hexahydrate > RPE - For analysis

**RPE**

Description .....	Green crystals	As .....	≤ 5 ppm	Cu .....	≤ 10 ppm	S .....	≤ 10 ppm
Identification .....	Positive	Ca .....	≤ 10 ppm	Fe .....	≤ 10 ppm	Zn .....	≤ 10 ppm
Water-insoluble matter .....	≤ 100 ppm	Cd .....	≤ 1 ppm	Mg .....	≤ 10 ppm	Assay (complexometric) .....	≥ 98.5 %
Chloride .....	≤ 50 ppm	Co .....	≤ 0.5 %	Mn .....	≤ 20 ppm		
Al .....	≤ 10 ppm	Cr .....	≤ 1 ppm	Pb .....	≤ 1 ppm		

Code	Size	Packaging	Notes
464685	250 g	Plastic bottle	
464686	1 kg	Plastic bottle	



## Nickel (II) nitrate 10g/l

• Nichel nitrato oso 10 g/l • Nickel (II) nitrate 10 g/l • Níquel (II) nitrato 10 g/L • Nickel (II)-nitrát 10g/l

**Classification transport**  
ONU: 3098  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H314-H334-H317-H341-H350i-H360D-H372-H411-HA26  
P280-P284-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P362+P364-P342+P311a

### Nickel (II) nitrate 10g/l > RS - Matrix modifiers for AAS-GTA

**RS**

Code	Size	Packaging	Notes
503197	50 ml	Plastic bottle	Matrix: 1% Nitric acid



## Nickel (II) sulfate hexahydrate

• Nichel solfato oso esaidrato • Nickel (II) sulfate hexahydraté • Níquel (II) sulfato hexahidratado • Nickel (II) sulfathexahydrat

NiSO<sub>4</sub>·6H<sub>2</sub>O  
Molecular Weight: 262,86  
CAS: 10101-97-0



**Danger**  
H302-H332-H315-H334-H317-H341-H350i-H360D-H372-H410-HA26  
P271-P280-P284-P304+P340-P308+P313-P342+P311a

### Nickel (II) sulfate hexahydrate > RPE - For analysis

**RPE**

Description .....	Green crystals	Water-insoluble matter .....	≤100 ppm	Cu .....	≤10 ppm	Pb .....	≤10 ppm
Identification .....	Positive	Subst. not ppt. (NH <sub>4</sub> ) <sub>2</sub> S .....	≤0.1 %	Fe .....	≤80 ppm	Zn .....	≤20 ppm
pH sol. 5% at 25° C .....	2.5 ÷ 6.5	Ca .....	≤400 ppm	K .....	≤500 ppm	Assay (complexometric) .....	≥99 %
Total nitrogen .....	≤20 ppm	Cd .....	≤10 ppm	Mn .....	≤10 ppm		
Chloride .....	≤10 ppm	Co .....	≤5 ppm	Na .....	≤100 ppm		

Code	Size	Packaging	Notes
464775	250 g	Plastic bottle	
464777	1 kg	Plastic bottle	
464772	25 kg	Plastic bucket	

**Low content in cobalt**

### Nickel (II) sulfate hexahydrate > RE - Pure

**RE**

Description .....	Green crystals	Water-insoluble matter .....	≤0.1 %	Assay (complexometric) .....	98 ÷ 100 %
Identification .....	Positive	Fe .....	≤100 ppm		

Code	Size	Packaging	Notes
355757	1 kg	Plastic bottle	



## Nicotinamide

• Nicotinamide • Nicotinamide • Nicotinamida • Niacinamid

Synonym:

- Vitamin B3
- Nicetamide

$C_6H_6ON_2$   
Molecular Weight: 122,13  
CAS: 98-92-0  
EEC-N: 202-713-4



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Nicotinamide > ERBapharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBapharm**

Description .....	White crystalline powder	Ready carbonizable substances.....Conform USP-NF	pH solution 5% .....	6.0 ÷ 7.5	Assay (non-aqueous medium).....99.0 ÷ 101.0 % s.s.
Identification .....	Positive	Organic volatile impurities Conform USP-NF	Loss on drying .....	≤0.5 %	Assay (HPLC) .....
Appearance of solution .....	Conform Ph.Eur.	Melting point.....	Sulphated ash .....	≤0.1 %	98.5 ÷ 101.5 % s.s.
Related substances .....	Conform Ph.Eur.		Heavy metals (Pb).....	≤30 ppm	

Code	Size	Packaging	Notes
392304	100 g	Plastic bottle	
392307	1 kg	Plastic bottle	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*



## Nicotinic acid

• Acido nicotinic • Acide nicotinique • Acido nicotínico • Nikotinsäure

Synonym:

3-Picolinic acid

N:CHC(COOH):CHCH:CH  
Molecular Weight: 123,11  
CAS: 59-67-6  
EEC-N: 200-441-0



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Nicotinic acid > RPE - For analysis

**RPE**

Description .....	White crystalline powder	Chloride.....	≤0.02 %	Residue on ignition.....	≤0.1 %
Identification .....	Positive	Heavy metals (Pb).....	≤20 ppm	Assay (non-aqueous medium).....	99.5 ÷ 100.5 %
Melting point.....	235.7 ÷ 237.3 °C	Loss on drying .....	≤1.0 %	Sulphate .....	≤ 0.1 %

Code	Size	Packaging	Notes
407914	100 g	Plastic bottle	



## Nigrosine

• Nigrosina • Nigrosine • Nigrosina • Nigrosine

Synonym:

Acid black 2

CAS: 8005-03-6



### Warning

H302-H312-H332  
P261-P264-P271-P280h-P301+P312a-P304+P340

### Nigrosine > RS - For microscopy - C.I. 50420

**RS**

Description .....

black granules Identification .....

Positive

Code	Size	Packaging	Notes
464852	25 g	Glass bottle	
464853	50 g	Glass bottle	



**Ninhydrin**  
 • Ninidrina • Ninhydrine • Ninhidrina • Ninhydrin

Synonym:  
1,2,3-Indantrione monohydrate

$C_6H_4COCOCO.H_2O$   
 Molecular Weight: 178,15  
 CAS: 485-47-2  
 EEC-N: 207-618-1



**Warning**  
 H302-H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

**Ninhydrin > RPE - For analysis - ACS**

**RPE**

Description ..... Yellow powder      Ident. and melting point ..... Conform      Solubility ..... Conform  
 Identification ..... Positive      Aminoacids sensitivity ..... Conform

Code	Size	Packaging	Notes
464928	5 g	Glass bottle	
464922	25 g	Glass bottle	

**Ninhydrin solution**  
 • Ninidrina solzione • Ninhydrine solution • Ninhidrina solución • Ninhydrinlösung

Synonym:  
1,2,3-Indantrione monohydrate

**Classification transport**  
 ONU: 1993  
 Transport Hazard class: 3  
 Packing group III



**Danger**  
 H226-H318  
 P210-P241-P280-P303+P361+P353-  
 P305+P351+P338-P310a

**Ninhydrin solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

**RS**

Code	Size	Packaging	Notes
611058304	100 ml	Glass bottle	Ninhydrin solution R1 Ref Ph.Eur 1058304
611058305	100 ml	Glass bottle	Ninhydrin solution R2 Ref Ph.Eur 1058305

**Ninhydrin and Tin (II) chloride reagent**  
 • Ninidrina e stagno cloruro reattivo • Réactif à la ninhydrine et au étain (II) chlorure • Ninhidrina y estaño (II) cloruro reactivo  
 • Ninhydrin und Zinn (II) chlorid Reagenz

**Ninhydrin and Tin (II) chloride reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

**RS**

Code	Size	Packaging	Notes
611058301	100 ml	Glass bottle	Ref Ph.Eur 1058301

**Niobium standard solution**  
 • Niobio standard soluzione • Niobium solution standard • Niobio, solución patrón • Niob-Standardlösung

**Classification transport**  
 ONU: 2922  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H290-H302-H311-H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338-P361+P364

**Niobium standard solution > RS - Standard solution for ICP-MS**

**RS**

Code	Size	Packaging	Notes
505737	100 ml	Plastic bottle	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid
505738	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Niobium standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503751	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
503753	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
503755	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid and hydrofluoric acid
503757	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Niobium standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507750	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
507511	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Nital solution 4%

• Nital soluzione 4% • Nital solution 4% • Nital solución 4% • Nital-Lösung 4%

Classification transport  
ONU: 3316  
Transport Hazard class: 9  
Packing group II



## Danger

H225-H272-H290-H331-H314-HEU071  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

## Nital solution 4% &gt; RS - Macrography

RS

Code	Size	Packaging	Notes
505021	1 l	Plastic bottle	

Composition: 4ml HNO<sub>3</sub> 65%; 100ml Ethanol



## Nitrate standard solution

• Nitrati standard soluzione • Nitrate solution standard • Nitrato, solución patrón • Nitrat-Standardlösung

## Nitrate standard solution &gt; RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002101	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5002101
615002102	100 ml	Plastic bottle	A 2 ppm solution: to dilute according to Ref Ph.Eur 5002102
615002109	100 ml	Plastic bottle	A 100 ppm solution: to dilute according to Ref Ph.Eur 5002100

## Nitrate standard solution &gt; RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503331	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503333	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Nitric acid fuming 99%

• Acido nitrico fumante 99% • Acide nitrique fumant 99% • Acido nítrico fumante 99% • Salpetersäure raucht zu 99%

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2  
EEC-N: 231-714-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group I



**Danger**  
H272-H290-H331-H314-HEU071  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Nitric acid fuming 99% > RPE - For analysis

RPE

Description	Clear colourless liquid	Sulfate	≤ 5 ppm	Cu	≤ 100 ppb	Na	≤ 300 ppb
Identification	Conform	Al	≤ 500 ppb	Fe	≤ 200 ppb	Sn	≤ 200 ppb
Assay (HNO <sub>3</sub> )	≥ 99 %	Ca	≤ 300 ppb	Mg	≤ 200 ppb	Zn	≤ 500 ppb
Chloride	≤ 1 ppm	Cr	≤ 200 ppb	K	≤ 200 ppb		

Code	Size	Packaging	Notes
408143	500 ml	Glass bottle PVC coated	
408142	2 l	Glass bottle PVC coated	



## Nitric acid 69.5%

• Acido nitrico 69,5% • Acide nitrique 69.5% • Acido nítrico 69.5% • Salpetersäure 69.5%

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**  
H272-H290-H331-H314-HEU071  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Nitric acid 69.5% > RS - VLSI - For electronic use

RS

Code	Size	Packaging	Notes
527671	1 l	Plastic bottle	
527670	2.5 l	Plastic bottle	

For specifications, contact our customer service for a certificate of analysis

### Nitric acid 69.5% > RS - RSE - For electronic use

RS

Description	Clear colourless liquid	As	≤0.005 ppm	Fe	≤0.1 ppm	Pt	≤0.02 ppm
Identification	Positive	Au	≤0.05 ppm	Ga	≤0.02 ppm	Sb	≤0.01 ppm
Density at 20° C	1.408 ÷ 1.418	B	≤0.01 ppm	In	≤0.02 ppm	Si	≤0.1 ppm
Assay (acidimetric)	69.1 ÷ 69.9 %	Ba	≤0.05 ppm	K	≤0.1 ppm	Sn	≤0.02 ppm
Chloride	≤0.05 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Sr	≤0.02 ppm
Phosphate	≤0.1 ppm	Bi	≤0.02 ppm	Mg	≤0.1 ppm	Ta	≤0.1 ppm
Heavy metals (Pb)	≤0.05 ppm	Ca	≤0.1 ppm	Mn	≤0.01 ppm	Ti	≤0.01 ppm
Residue on ignition	≤2 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	Tl	≤0.02 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.3 ppm	V	≤0.01 ppm
Ag	≤0.02 ppm	Cr	≤0.01 ppm	Ni	≤0.01 ppm	Zn	≤0.05 ppm
Al	≤0.05 ppm	Cu	≤0.005 ppm	Pb	≤0.02 ppm	Zr	≤0.01 ppm

Code	Size	Packaging	Notes
408097	1 l	Glass bottle	
408098	2.5 l	Glass bottle	

### Nitric acid 69.5% > RS - MOS - For electronic use

RS

Description	Clear colourless liquid	As	≤0.005 ppm	Fe	≤0.1 ppm	Pt	≤0.05 ppm
Identification	Positive	Au	≤0.05 ppm	Ga	≤0.02 ppm	Sb	≤0.01 ppm
Density at 20° C	1.408 ÷ 1.418	B	≤0.01 ppm	In	≤0.02 ppm	Sn	≤0.02 ppm
Assay (acidimetric)	69.1 ÷ 69.9 %	Ba	≤0.05 ppm	K	≤0.1 ppm	Sr	≤0.02 ppm
Chloride	≤0.05 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Ta	≤0.1 ppm
Phosphate	≤0.1 ppm	Bi	≤0.02 ppm	Mg	≤0.1 ppm	Ti	≤0.05 ppm
Heavy metals (Pb)	≤0.05 ppm	Ca	≤0.1 ppm	Mn	≤0.01 ppm	Tl	≤0.05 ppm
Residue on ignition	≤2 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	V	≤0.05 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.3 ppm	Zn	≤0.05 ppm
Ag	≤0.02 ppm	Cr	≤0.01 ppm	Ni	≤0.01 ppm	Zr	≤0.05 ppm
Al	≤0.05 ppm	Cu	≤0.005 ppm	Pb	≤0.02 ppm		

Code	Size	Packaging	Notes
408151	1 l	Glass bottle	
408152	2.5 l	Glass bottle	

## Nitric acid 69.5% > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description .....	Clear liquid	Nitrite .....	≤35 ppm	Cd .....	≤0.005 ppm	Na .....	≤0.5 ppm
Colour (APHA) .....	≤10	Silicate .....	≤1 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.05 ppm
Identification .....	Positive	Sulphate .....	≤0.5 ppm	Cr .....	≤0.1 ppm	Pb .....	≤0.02 ppm
Hg .....	≤10 ppb	Ag .....	≤0.02 ppm	Cu .....	≤0.01 ppm	Sr .....	≤0.02 ppm
Density at 20° C .....	1.408 ÷ 1.416	Al .....	≤0.05 ppm	Fe .....	≤0.2 ppm	Ti .....	≤0.1 ppm
Chloride .....	≤0.1 ppm	As .....	≤0.005 ppm	K .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Residue on evaporation .....	≤5 ppm	Ba .....	≤0.1 ppm	Li .....	≤0.02 ppm	V .....	≤0.05 ppm
Phosphate .....	≤0.5 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Zn .....	≤0.01 ppm
Heavy metals (Pb) .....	≤0.2 ppm	Bi .....	≤0.1 ppm	Mn .....	≤0.01 ppm	Assay (acidimetric) .....	69.1 ÷ 69.9 %
Sulphated ash .....	≤4 ppm	Ca .....	≤5 ppm	Mo .....	≤0.05 ppm		

Code	Size	Packaging	Notes
408071	1 l	Glass bottle	
408076	1 l	Glass bottle PVC coated	
524530	1 l	Plastic bottle	
408072	2.5 l	Glass bottle	
524531	2.5 l	Plastic bottle	
408075	34 kg	Plastic drum	



## Nitric acid 67-70%

• Acido nitrico 67-70% • Acide nitrique 67-70% • Acido nítrico 67-70% • Salpetersäure 67-70%

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

### Classification transport

ONU: 2031  
Transport Hazard class: 8  
Packing group II



### Danger

H272-H290-H331-H314-HEU071  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

## Nitric acid 67-70% > RS - Superpure - For trace analysis at ppb level

**RS**

Description .....	Clear liquid	Li .....	≤ 0.1 ppb	Ce .....	≤ 0.1 ppb	Pt .....	≤ 0.5 ppb
Identification .....	Positive	Mg .....	≤ 1 ppb	Colour (APHA) .....	≤ 10	Pr .....	≤ 0.1 ppb
Chloride .....	≤ 0.2 ppm	Mn .....	≤ 0.1 ppb	Cs .....	≤ 0.1 ppb	Re .....	≤ 0.1 ppb
Total phosphorus .....	≤ 0.01 ppm	Hg .....	≤ 0.1 ppb	Dy .....	≤ 0.1 ppb	Rh .....	≤ 0.5 ppb
Total sulphur .....	≤ 0.3 ppm	Mo .....	≤ 0.1 ppb	Er .....	≤ 0.1 ppb	Rb .....	≤ 0.1 ppb
Co .....	≤ 0.5 ppb	Ni .....	≤ 0.1 ppb	Eu .....	≤ 0.1 ppb	Ru .....	≤ 0.5 ppb
Sb .....	≤ 0.5 ppb	Se .....	≤ 1 ppb	Gd .....	≤ 0.1 ppb	Sm .....	≤ 0.1 ppb
Fe .....	≤ 1 ppb	Ag .....	≤ 0.1 ppb	Ga .....	≤ 0.1 ppb	Sc .....	≤ 0.1 ppb
Ba .....	≤ 0.1 ppb	Na .....	≤ 1 ppb	Ge .....	≤ 0.1 ppb	Te .....	≤ 0.1 ppb
Be .....	≤ 0.1 ppb	Sr .....	≤ 0.1 ppb	Au .....	≤ 0.1 ppb	Tb .....	≤ 0.1 ppb
Bi .....	≤ 0.1 ppb	Th .....	≤ 0.1 ppb	Hf .....	≤ 0.1 ppb	Tl .....	≤ 0.1 ppb
B .....	≤ 1 ppb	Sn .....	≤ 0.5 ppb	Ho .....	≤ 0.1 ppb	Tm .....	≤ 0.1 ppb
Cd .....	≤ 0.5 ppb	Ti .....	≤ 0.5 ppb	In .....	≤ 0.1 ppb	W .....	≤ 0.1 ppb
Ca .....	≤ 1 ppb	U .....	≤ 0.1 ppb	La .....	≤ 0.1 ppb	Yb .....	≤ 0.1 ppb
Cr .....	≤ 1 ppb	V .....	≤ 0.5 ppb	Lu .....	≤ 0.1 ppb	Y .....	≤ 0.1 ppb
K .....	≤ 1 ppb	Zn .....	≤ 0.5 ppb	Nd .....	≤ 0.1 ppb		
Cu .....	≤ 0.5 ppb	Zr .....	≤ 0.1 ppb	Nb .....	≤ 0.1 ppb		
Pb .....	≤ 0.1 ppb	Assay (acidimetric) .....	67 ÷ 70 %	Pd .....	≤ 0.5 ppb		

Code	Size	Packaging	Notes
408115	500 ml	Plastic bottle	
408116	1 l	Plastic bottle	
408117	2.5 l	Plastic bottle	



## Nitric acid 67-69%

• Acido nitrico 67-69% • Acide nitrique 67-69% • Acido nítrico 67-69% • Salpetersäure 67-69%

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**  
H272-H290-H331-H314-HEU071  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Nitric acid 67-69% > RS - Ultrapure - For trace analysis at ppt level

RS

Description	Clear colourless liquid	Mg	≤ 10 ppt	Ce	≤ 10 ppt	Pd	≤ 20 ppt
Identification	Positive	Mn	≤ 10 ppt	Cs	≤ 10 ppt	Pt	≤ 20 ppt
Ag	≤ 10 ppt	Mo	≤ 10 ppt	Dy	≤ 1 ppt	Pr	≤ 1 ppt
Al	≤ 20 ppt	Na	≤ 10 ppt	Er	≤ 1 ppt	Re	≤ 10 ppt
As	≤ 20 ppt	Ni	≤ 20 ppt	Eu	≤ 1 ppt	Rh	≤ 10 ppt
B	≤ 10 ppt	Pb	≤ 10 ppt	Gd	≤ 1 ppt	Rb	≤ 10 ppt
Ba	≤ 10 ppt	Sn	≤ 20 ppt	Ga	≤ 10 ppt	Ru	≤ 20 ppt
Be	≤ 10 ppt	Sr	≤ 10 ppt	Ge	≤ 10 ppt	Sm	≤ 1 ppt
Bi	≤ 10 ppt	Tl	≤ 10 ppt	Au	≤ 20 ppt	Sc	≤ 10 ppt
Ca	≤ 10 ppt	Ti	≤ 10 ppt	Hf	≤ 10 ppt	Te	≤ 1 ppt
Cd	≤ 10 ppt	V	≤ 10 ppt	Ho	≤ 1 ppt	Tb	≤ 1 ppt
Co	≤ 10 ppt	Zn	≤ 10 ppt	In	≤ 1 ppt	Tm	≤ 1 ppt
Cr	≤ 10 ppt	Zr	≤ 10 ppt	La	≤ 1 ppt	W	≤ 10 ppt
Cu	≤ 10 ppt	Assay (acidimetric)	67 ÷ 69 %	Li	≤ 10 ppt	Yb	≤ 1 ppt
Fe	≤ 10 ppt	U	≤ 1 ppt	Lu	≤ 1 ppt	Y	≤ 1 ppt
Hg	≤ 50 ppt	Th	≤ 1 ppt	Nd	≤ 1 ppt		
K	≤ 10 ppt	Sb	≤ 10 ppt	Nb	≤ 1 ppt		

Code	Size	Packaging	Notes
408052	250 ml	Plastic bottle	
408051	500 ml	Plastic bottle	



## Nitric acid 67.5 (42° Be)

• Acido nitrico 67.5% (42° Be) • Acide nitrique 67.5% (42° Be) • Acido nítrico 67.5% (42° Be) • Salpetersäure 67.5% (42° Be)

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**  
H272-H290-H331-H314-HEU071  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Nitric acid 67.5 (42° Be) > RPE - For analysis

RPE

Assay (acidimetric)	65.5 - 69.7 %	Heavy metals (Pb)	≤ 0.2 ppm	Co	≤ 0.01 ppm	Na	≤ 0.2 ppm
Identification (I.R.)	Positive	Ag	≤ 0.02 ppm	Cr	≤ 0.1 ppm	Ni	≤ 0.02 ppm
Colour	≤ 10 APHA	Al	≤ 0.05 ppm	Cu	≤ 0.01 ppm	Pb	≤ 0.02 ppm
Density at 20°C	1.39 - 1.42	As	≤ 0.005 ppm	Fe	≤ 0.2 ppm	Sr	≤ 0.02 ppm
Residue on evaporation	≤ 4 ppm	Ba	≤ 0.1 ppm	K	≤ 0.05 ppm	Ti	≤ 0.01 ppm
Silicate	≤ 1 ppm	Be	≤ 0.02 ppm	Li	≤ 0.02 ppm	Tl	≤ 0.02 ppm
Chloride	≤ 0.1 ppm	Bi	≤ 0.1 ppm	Mg	≤ 0.05 ppm	V	≤ 0.01 ppm
Sulphate	≤ 0.5 ppm	Ca	≤ 0.5 ppm	Mn	≤ 0.02 ppm	Zn	≤ 0.05 ppm
Phosphate	≤ 0.5 ppm	Cd	≤ 0.005 ppm	Mo	≤ 0.02 ppm		

Code	Size	Packaging	Notes
528530	5 l	Tank	

### Nitric acid 67.5 (42° Be) > RE - Pure

RE

Description	Clear colourless liquid	Residue on ignition	≤ 50 ppm	Heavy metals (Pb)	≤ 10 ppm
Identification	Positive	Chloride	≤ 30 ppm	Fe	≤ 10 ppm
Density at 20° C	1.395 ÷ 1.415	Sulphate	≤ 50 ppm	Assay (acidimetric)	65.0 ÷ 70.0 %

Code	Size	Packaging	Notes
305502	2.5 l	Glass bottle	
305501	40 kg	Plastic tank	
305505	70 kg	Plastic tank	



## Nitric acid 65%

• Acido nitrico 65% • Acide nitrique 65% • Acido nítrico 65% • Salpetersäure 65%

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**  
H272-H290-H331-H314-HEU071  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Nitric acid 65% > RS - RSE - For electronic use

RS

Description	Clear colourless liquid	As	≤0.005 ppm	Fe	≤0.1 ppm	Pt	≤0.05 ppm
Identification	Positive	Au	≤0.05 ppm	Ga	≤0.02 ppm	Sb	≤0.01 ppm
Density at 20° C	1.390 ÷ 1.410	B	≤0.01 ppm	In	≤0.02 ppm	Sn	≤0.02 ppm
Assay (acidimetric)	64.0 ÷ 66.0 %	Ba	≤0.05 ppm	K	≤0.1 ppm	Sr	≤0.02 ppm
Chloride	≤0.05 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Ta	≤0.1 ppm
Phosphate	≤0.1 ppm	Bi	≤0.02 ppm	Mg	≤0.1 ppm	Ti	≤0.05 ppm
Heavy metals (Pb)	≤0.05 ppm	Ca	≤0.1 ppm	Mn	≤0.01 ppm	Tl	≤0.05 ppm
Residue on ignition	≤2 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	V	≤0.05 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.3 ppm	Zn	≤0.05 ppm
Ag	≤0.02 ppm	Cr	≤0.01 ppm	Ni	≤0.01 ppm	Zr	≤0.05 ppm
Al	≤0.05 ppm	Cu	≤0.005 ppm	Pb	≤0.02 ppm		

Code	Size	Packaging	Notes
408101	1 l	Glass bottle	
408102	2.5 l	Glass bottle	

### Nitric acid 65% > RS - For enviromental analysis - ISO

RS

Description	Clear colourless liquid	Ag	≤0.02 ppm	Cr	≤0.1 ppm	Na	≤0.5 ppm
Identification	Positive	Al	≤0.05 ppm	Cu	≤0.01 ppm	Ni	≤0.05 ppm
Density at 20° C	1.390 ÷ 1.410	As	≤0.005 ppm	Fe	≤0.2 ppm	Pb	≤0.02 ppm
Chloride	≤0.1 ppm	Ba	≤0.1 ppm	Hg	≤0.005 ppm	Sr	≤0.02 ppm
Phosphate	≤0.5 ppm	Be	≤0.02 ppm	K	≤0.1 ppm	Ti	≤0.1 ppm
Heavy metals (Pb)	≤0.2 ppm	Bi	≤0.1 ppm	Li	≤0.05 ppm	Tl	≤0.05 ppm
Residue on ignition	≤4 ppm	Ca	≤0.5 ppm	Mg	≤0.1 ppm	V	≤0.05 ppm
Silicate	≤1 ppm	Cd	≤0.005 ppm	Mn	≤0.01 ppm	Zn	≤0.05 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Mo	≤0.05 ppm	Assay (acidimetric)	64 ÷ 66 %

Code	Size	Packaging	Notes
407951	1 l	Glass bottle	
407952	2.5 l	Glass bottle	

#### Low content in Hg

### Nitric acid 65% > RPE - For analysis - ISO

RPE

Description	Clear colourless liquid	Ag	≤0.02 ppm	Cr	≤0.1 ppm	Ni	≤0.05 ppm
Identification	Positive	Al	≤0.05 ppm	Cu	≤0.01 ppm	Pb	≤0.02 ppm
Density at 20° C	1.390 ÷ 1.410	As	≤0.005 ppm	Fe	≤0.2 ppm	Sr	≤0.02 ppm
Chloride	≤0.1 ppm	Ba	≤0.1 ppm	K	≤0.1 ppm	Ti	≤0.1 ppm
Phosphate	≤0.5 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Tl	≤0.05 ppm
Heavy metals (Pb)	≤0.2 ppm	Bi	≤0.1 ppm	Mg	≤0.1 ppm	V	≤0.05 ppm
Residue on ignition	≤4 ppm	Ca	≤0.5 ppm	Mn	≤0.01 ppm	Zn	≤0.05 ppm
Silicate	≤1 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	Assay (acidimetric)	64 ÷ 66 %
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.5 ppm		

Code	Size	Packaging	Notes
408021	1 l	Glass bottle PVC coated	
408022	1 l	Glass bottle	
524535	1 l	Plastic bottle	
408025	2.5 l	Glass bottle	
524536	2.5 l	Plastic bottle	
408027	34 kg	Plastic drum	



## Nitric acid 65% > RE - Pure

RE

Description ..... Clear colourless liquid  
 Identification ..... Positive  
 Density at 20° C ..... 1.390 ÷ 1.410  
 Chloride ..... ≤10 ppm  
 Heavy metals (Pb) ..... ≤10 ppm  
 Residue on ignition ..... ≤500 ppm  
 Sulphate ..... ≤100 ppm  
 As ..... ≤1 ppm  
 Fe ..... ≤50 ppm  
 Assay (acidimetric) ..... 64 ÷ 66 %

Code	Size	Packaging	Notes
305201	1 l	Glass bottle	
305207	2.5 l	Glass bottle	
305202	34 kg	Plastic drum	
305205	34 kg	Drum	



## Nitric acid 18%

• Acido nítrico 18% • Acide nitrique 18% • Acido nítrico 18% • Salpetersäure 18%

HNO<sub>3</sub>  
 Molecular Weight: 63,01  
 CAS: 7697-37-2

**Classification transport**  
 ONU: 2031  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H290-H332-H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## Nitric acid 18% > RS - RSE - For electronic use

RS

Assay ..... 17 - 19 %

Code	Size	Packaging	Notes
408191	1 l	Plastic bottle	



## Nitric acid 10%

• Acido nítrico 10% • Acide nitrique 10% • Acido nítrico 10% • Salpetersäure 10%

HNO<sub>3</sub>  
 Molecular Weight: 63,01  
 CAS: 7697-37-2

**Classification transport**  
 ONU: 2031  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H290-H332-H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## Nitric acid 10% > RS - For analysis

RS

Assay ..... 9 - 11 %      Density d20/4 ..... 1.048 - 1.06

Code	Size	Packaging	Notes
PS0568/41	10 l	Plastic tank	



## Nitric acid 8 mol/l (8N)

• Acido nítrico 8 mol/l (8N) • Acide nitrique 8 mol/l (8N) • Acido nítrico 8 mol/l (8N) • Salpetersäure 8 mol/l (8N)

HNO<sub>3</sub>  
 Molecular Weight: 63,01  
 CAS: 7697-37-2

**Classification transport**  
 ONU: 2031  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H290-H331-H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338-P403+P233

## Nitric acid 8 mol/l (8N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 7.984 - 8.016 N

Code	Size	Packaging	Notes
PS0311/20	2.5 l	Plastic bottle	

**Nitric acid 2 mol/l (2N)**

• Acido nítrico 2 mol/l (2N) • Acide nitrique 2 mol/l (2N) • Acido nítrico 2 mol/l (2N) • Salpetersäure 2 mol/l (2N)

HNO<sub>3</sub>

Molecular Weight: 63,01

CAS: 7697-37-2

**Classification transport**

ONU: 2031

Transport Hazard class: 8

Packing group II

**Danger**

H290-H332-H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Nitric acid 2 mol/l (2N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 723.....e

Code	Size	Packaging	Notes
408185000	5 l	Plastic tank	Certified with NIST traceability

**Volumetric solution ready-to-use****Nitric acid 1 mol/l (1N)**

• Acido nítrico 1 mol/l (1N) • Acide nitrique 1 mol/l (1N) • Acido nítrico 1 mol/l (1N) • Salpetersäure 1 mol/l (1N)

HNO<sub>3</sub>

Molecular Weight: 63,01

CAS: 7697-37-2

**Classification transport**

ONU: 2031

Transport Hazard class: 8

Packing group II

**Danger**

H290-H332-H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Nitric acid 1 mol/l (1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 723.....e

Code	Size	Packaging	Notes
408176000	500 ml	Plastic bottle	Certified with NIST traceability
408171000	1 l	Plastic bottle	Certified with NIST traceability

**Volumetric solution ready-to-use****Nitric acid 0.1 mol/l (0.1N)**

• Acido nítrico 0.1 mol/l (0.1N) • Acide nitrique 0.1 mol/l (0.1N) • Acido nítrico 0.1 mol/l (0.1N) • Salpetersäure 0.1 mol/l (0.1N)

HNO<sub>3</sub>

Molecular Weight: 63,01

CAS: 7697-37-2

**Nitric acid 0.1 mol/l (0.1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 723.....e

Code	Size	Packaging	Notes
408206000	500 ml	Plastic bottle	Certified with NIST traceability

**6.301 g of HNO<sub>3</sub>. Volumetric solution ready-to-use****Nitric acid 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005


Code	Size	Packaging	Notes
408231		Glass ampoule	Volume: 55 ml

**6,301 g HNO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**

**Nitric acid, dilute**  
 • Acido nitrico diluito • Acide nitrique diluée • Acido nítrico diluido • Salpetersäure verdünnt

HNO<sub>3</sub>  
 Molecular Weight: 63,01  
 CAS: 7697-37-2

**Classification transport**  
 ONU: 2031  
 Transport Hazard class: 8  
 Packing group II

**Danger**  
  
 H290-H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

**Nitric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 4.1.1**


RS

Code	Size	Packaging	Notes
611058402	100 ml	Plastic bottle	Ref Ph.Eur 1058402
611058409	250 ml	Plastic bottle	Ref Ph.Eur 1058402

**Nitric acid cerium salt ▶ Cerium (III) nitrate hexahydrate**

**Nitrioltriacetic acid**  
 • Acido nitrilotriacético • Acide nitrilotriacétique • Acido nitrilotriacético • Nitrilotriessigsäure  
 Synonym:  
 • Nitrioltriacetic acid  
 • NTA

N(CH<sub>2</sub>COOH)<sub>3</sub>  
 Molecular Weight: 191,15  
 CAS: 139-13-9  
 EEC-N: 205-355-7

**Warning**  
  
 H302  
 P264-P270-P301+P312a-P330-P501a

**Nitrioltriacetic acid > RPE - For analysis**

RPE

Description ..... White powder Identification (I.R.)..... Conform Assay (complexometric)..... ≥ 98.5 %

Code	Size	Packaging	Notes
408242	100 g	Glass bottle	

**Nitrite standard solution**  
 • Nitriti standard soluzione • Nitrite solution standard • Nitrito, solución patrón • Nitrit-Standardlösung

**Nitrite standard solution > RS - Standard solution for ion chromatography**

RS

Code	Size	Packaging	Notes
503321	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503323	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**m-Nitrobenzaldehyde**  
 • m-Nitrobenzaldeide • m-Nitrobenzaldéhyde • m-Nitrobenzaldehyde • m-Nitrobenzaldehyd

NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>CHO  
 Molecular Weight: 151,12  
 CAS: 99-61-6  
 EEC-N: 202-772-6

**Warning**  
  
 H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

**m-Nitrobenzaldehyde > RE - Pure**

RE

Description ..... Yellowish crystalline powder Melting point..... 56 ÷ 59 ° C Assay (GLC) ..... ≥ 98.5 %  
 Identification ..... Positive Water ..... ≤ 0.5 %

Code	Size	Packaging	Notes
465142	25 g	Glass bottle	

**Nitrobenzene**

• Nitrobenzene • Nitrobenzène • Nitrobencono • Nitrobenzol

C6H5NO2

Molecular Weight: 123,11

CAS: 98-95-3

EEC-N: 202-716-0

**Classification transport**

ONU: 1662

Transport Hazard class: 6.1

Packing group II

**Danger**H301-H311-H331-H351-H360F-H372-H412-HA26  
P271-P280-P304+P340-P308+P313-P330-  
P361+P364-P403+P233**Nitrobenzene > RPE - For analysis - ACS****RPE**

Description ..... Yellow clear liquid Identification ..... Positive Assay (GLC) ..... ≥ 98.5 % Refractive index at 20°C. 1.5500 ÷ 1.5530

Code	Size	Packaging	Notes
465222	1 l	Glass bottle	

**m-Nitrobenzoic acid**

• Acido m-nitrobenzoico • Acide m-nitrobenzoïque • Acido m-nitrobenzoico • m-Nitrobenzoesäure

Synonym:

*3-Nitrobenzoic acid*NO2C6H4COOH

Molecular Weight: 167,12

CAS: 121-92-6

EEC-N: 204-508-5

**Warning**

H302

P264-P270-P301+P312a-P330-P501a

**m-Nitrobenzoic acid > RPE - For analysis****RPE**

Description ..... Light yellow to light green powder or crystals Identification (I.R.) ..... Positive Melting point ..... 139 - 143 °C Assay (GC) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
408414	100 g	Glass bottle	

**p-Nitrophenol**

• p-Nitrofenolo • p-Nitrophenól • p-Nitrofenol • p-Nitrophenol

Synonym:

*4-Nitrophenol*NO2C6H4OH

Molecular Weight: 139,11

CAS: 100-02-7

EEC-N: 202-811-7

**Classification transport**

ONU: 1663

Transport Hazard class: 6.1

Packing group III

**Warning**

H302-H312-H332-H373

P260-P264-P271-P280h-P301+P312a-P304+P340

**p-Nitrophenol > RPE - For analysis****RPE**Description ..... Yellow crystals Sensitivity (pH 5.6-7.6) ..... Conform Water ..... ≤ 0.9 %  
Identification ..... Positive Melting point ..... 109 ÷ 114 °C Colour change ..... Colourless-yellow

Code	Size	Packaging	Notes
465744	100 g	Glass bottle	

**Acid-base indicator****p-Nitrophenol solution 0,1% in water**• p-Nitrofenolo soluzione 0.1% in acqua • p-Nitrophenól solution 0.1% dans l'eau  
• p-Nitrofenol solución 0.1% en agua • p-Nitrophenol-Lösung 0.1% in Wasser

Synonym:

*4-Nitrophenol***p-Nitrophenol solution 0,1% in water > RPE - For analysis****RPE**

Description ..... Yellow clear liquid Identification ..... Positive pH range ..... 5.0 - 7.0

Code	Size	Packaging	Notes
E465776	500 ml	Bottle	



## Nonylphenol ethoxylated 10 ETO

- Nonilfenolo etossilato 10 ETO • Nonylphénol éthoxylate 10 ETO • Nonilfenol etoxilato 10 ETO
- Nonylphenol ethoxylated - 10 ETO

Synonym:  
4-Nonylphenyl-polyethylene glycol

CAS: 9016-45-9  
EEC-N: 500-024-6



**Warning**  
H302-H315-H319-H411  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Nonylphenol ethoxylated 10 ETO > RS - Standard for detection of surfactants

RS

Description .....Yellow liquid Identification ..... Positive Assay (at production) .....≥90 %

Code	Size	Packaging	Notes
466361	10 g	Glass bottle	



## Nuclear fast red

- Rosso solido nucleare • Rouge nucléaire • Rojo nuclear sólido • Nuklear schnell rot

Synonym:  
4-Amino-9,10-dihydro-1,3-dihydroxy-9,10-dioxo-  
2-anthracenesulfonic acid sodium salt

$C_{14}H_8NNaO_7S$   
Molecular Weight: 357,28  
CAS: 6409-77-4  
EEC-N: 229-088-0

### Nuclear fast red > RS - For microscopy - C.I. 60760

RS

Description .....Red brown powder Identification ..... Positive

Code	Size	Packaging	Notes
477011	10 g	Glass bottle	
477012	25 g	Glass bottle	

**Dye for cytology**

**n-Octane**

• n-Ottano • n-Octane • n-Octano • n-Octan

CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>CH<sub>3</sub>  
Molecular Weight: 114,23  
CAS: 111-65-9  
EEC-N: 203-892-1

**Classification transport**  
ONU: 1262  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H315-H336-H304-H410  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

**n-Octane > RPE - For analysis - Reag. Ph. Eur.****RPE**

Description ..... Clear colourless liquid  
Identification ..... Positive  
Ready carbonizable substances..... Conform  
Density at 20° C ..... 0.697 ÷ 0.707  
Refractive index at 20°C. 1.3940 ÷ 1.4010  
Boiling point..... 125.0 ÷ 126.0 ° C  
Water (K.F.) ..... ≤100 ppm  
Residue on evaporation ..... ≤10 ppm  
Acidity (caprylic acid)..... ≤17 ppm  
Alcalinity (NH<sub>3</sub>)..... ≤0.2 ppm  
Subst. reducing KMnO<sub>4</sub> ..... ≤20 ppm (5m)  
Total sulphur ..... ≤50 ppm  
Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
467562	1 l	Glass bottle	

**n-Octane > RE - Pure****RE**

Description ..... Clear colourless liquid  
Identification ..... Positive  
Colour ..... ≤ 10 APHA  
Density at 20° C ..... 0.697 ÷ 0.707  
Refractive index at 20°C. 1.3925 ÷ 1.4025  
Boiling point..... 124.5 ÷ 126.5 ° C  
Residue on evaporation ..... ≤30 ppm  
Acidity (caprylic acid)..... ≤50 ppm  
Total sulphur ..... ≤50 ppm  
Assay (GLC) ..... ≥95 %

Code	Size	Packaging	Notes
356661	1 l	Glass bottle	
356663	2.5 l	Glass bottle	

**Octane 80 blend**

• Miscela ottano 80 • Mélange octane 80 • Mezcla octano 80 • Octan 80-Mischung

CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>CH<sub>3</sub>  
Molecular Weight: 114,23  
CAS: 111-65-9

**Classification transport**  
ONU: 3295  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H315-H336-H304-H410  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

**Octane 80 blend > RE - ASTM****RE**

Clear, colourless liquid ..... Conform  
Isooctane (ASTM) ..... 79.9 - 80.1 % (V/V)  
n-Heptane (ASTM) ..... 19.9 - 20.1 % (V/V)

Code	Size	Packaging	Notes
525992	5 l	Plastic tank	
525993	25 l	Metal drum	
525994	140 kg	Drum	

**Suitable for ASTM methods D2700 and D2699****1-Octanesulphonic acid sodium salt**

• Acido 1-octansolfonico sale sodico • Acide 1-octanesulfonique sel sodique • Acido 1-octanosulfónico sal sódica • 1-Octansulfonsäure-Natriumsalz

C<sub>8</sub>H<sub>17</sub>NaO<sub>3</sub>S  
Molecular Weight: 216,28  
CAS: 5324-84-5  
EEC-N: 226-195-4

**1-Octanesulphonic acid sodium salt > RS - For ion pair chromatography****RS**

Description ..... White crystalline powder  
Water (K.F.) ..... ≤ 2 %  
Assay ..... ≥ 98 %  
Absorbance (0,25M)  
At 200 nm ..... ≤ 0.10 AU  
At 210 nm ..... ≤ 0.05 AU  
At 220 nm ..... ≤ 0.04 AU  
At 230 nm ..... ≤ 0.03 AU  
At 240 nm ..... ≤ 0.01 AU  
At 250 nm ..... ≤ 0.01 AU  
At 260 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405861	25 g	Glass bottle	
405862	100 g	Plastic bottle	
405863	1 kg	Plastic bottle	





## 1-Octanesulfonic acid sodium salt monohydrate

- Acido 1-octansolfonico sale sodico monoidrato • Acide octanesulfonique sel sodique monohydraté
- Acido 1-octanosulfónico sal sódica monohidrato • 1-Octansulfonsäure-Natriumsalz-Monohydrat

Synonym:  
Sodium 1-octanesulfonate monohydrate

CH<sub>3</sub>(CH<sub>2</sub>)<sub>7</sub>SO<sub>3</sub>Na.H<sub>2</sub>O  
Molecular Weight: 234,29  
CAS: 207596-29-0

### 1-Octanesulfonic acid sodium salt monohydrate > RS - For ion pair chromatography

RS

Description ..... White crystalline powder      Absorbance (0,25M)      At 220 nm ..... ≤ 0.1 AU      At 250 nm ..... ≤ 0.05 AU  
Loss on drying ..... 7.0 - 9.0 %      At 200 nm ..... ≤ 0.3 AU      At 230 nm ..... ≤ 0.075 AU      At 260 nm ..... ≤ 0.04 AU  
Assay ..... ≥ 99.0 %      At 210 nm ..... ≤ 0.2 AU      At 240 nm ..... ≤ 0.05 AU

Code	Size	Packaging	Notes
405931	25 g	Glass bottle	
405932	100 g	Plastic bottle	

## Octanoic acid ► n-Caprylic acid



## Octanol-1

- Alcole n-ottilico • Octanol-1 • Octanol-1 • 1-Octanol

Synonym:  
• 1-Octanol  
• Capryl alcohol

CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>CH<sub>2</sub>OH  
Molecular Weight: 130,23  
CAS: 111-87-5  
EEC-N: 203-917-6



### Warning

H302-H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Octanol-1 > RPE - For analysis

RPE

Description ..... Clear colourless liquid      Density at 25° C ..... 0.815 ÷ 0.830      Boiling point ..... 194.0 ÷ 196.0 °C      Assay (GLC) ..... ≥ 99 %  
Identification ..... Positive      Refractive index at 20°C ..... 1.425 ÷ 1.440      Melting point ..... -16 ÷ -14 °C

Code	Size	Packaging	Notes
415002	100 ml	Glass bottle	
415003	1 l	Glass bottle	
415004	30 l	Plastic drum	



## Oil of cedar wood

- Olio di legno cedro condensato • Huile de cèdre condensée • Aceite de cedro condensado
- Öl aus Zedernholz

Synonym:  
• Cedar oil  
• Cedarwood oil

CAS: 8002-27-9



### Warning

H317-H412  
P261-P280g-P302+P352a-P362+P364-P333+P313-  
P501a

### Oil of cedar wood > RS - For microscopy

RS

Description ..... Yellow colourless liquid      Identification ..... Positive      Density at 20°C ..... 0.990 ÷ 1.010      Refractive index at 20°C ..... 1.515 - 1.520

Code	Size	Packaging	Notes
466753	100 ml	Glass bottle	
466757	1 l	Glass bottle	

Immersion medium for microscopy

## Oil Red O ► Red for oils O

**Oil refined of almonds**

- Olio di mandorla raffinato • Huile d'amande raffinée • Aceite refinado de almendras
- Aus Mandeln raffiniertes Öl

Synonym:  
Almond oil

CAS: 8007-69-0

**Oil refined of almonds > ERBApharm - According to pharmacopoeia: NF****ERBApharm**

Description ..... Yellow colourless liquid    Relative density ..... 0.910 ÷ 0.915    Peroxide value ..... ≤ 5.0    Composition of fatty acids (GC) ..... Conform NF  
 Identification ..... Positive    Acid value ..... ≤ 0.5    Not saponifiable matt ..... ≤ 0.9 %    Sterol composition ..... Conform NF

Code	Size	Packaging	Notes
356251	1 l	Glass bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Oleic acid**

- Acido oleico • Acide oléique • Acido oleico • Olsäure

Synonym:  
• cis-9-Octadecenoic acid  
• Elainic acid

$\text{CH}_2(\text{CH}_2)_7\text{CH}:\text{CH}(\text{CH}_2)_7\text{COOH}$   
 Molecular Weight: 282,45  
 CAS: 112-80-1  
 EEC-N: 204-007-1

**Warning**

H315-H319-H335  
 P261-P271-P304-P340-P305+P351+P338-  
 P332+P313-P403+P233

**Oleic acid > RE - Pure****RE**

Description ..... Clear yellow liquid    Density at 20° C ..... 0.890 ÷ 0.910    Iodine value ..... ≥ 89 g / 100g  
 Identification ..... Positive    Acid value ..... ≥ 195 mg KOH / g

Code	Size	Packaging	Notes
305704	1 l	Glass bottle	
305701	24 kg	Metal drum	

**Orange G**

- Arancio G • Orange G • Naranja G • Orange G

Synonym:  
• 1-Phenylazo-2-naphthol-6,8-disulfonic acid disodium salt  
• Acid orange 10

$\text{C}_{16}\text{H}_{10}\text{N}_2\text{Na}_2\text{O}_7\text{S}_2$   
 Molecular Weight: 452,36  
 CAS: 1936-15-8  
 EEC-N: 217-705-6

**Orange G > RS - For microscopy - C.I. 16230****RS**

Description ..... Red-orange powder    Identification ..... Positive    Maximum absorption ..... 470 ÷ 520 nm    Loss on drying at 110°C ..... ≤ 10.00 %

Code	Size	Packaging	Notes
423432	25 g	Glass bottle	

**Dye for cytology****Orange II**

- Arancio II • Orange II • Naranja II • Orange II

Synonym:  
Acid Orange 7

$\text{C}_{16}\text{H}_{11}\text{N}_2\text{NaO}_4\text{S}$   
 Molecular Weight: 350,33  
 CAS: 633-96-5  
 EEC-N: 211-199-0

**Orange II > RPE - For analysis - C.I. 15510****RPE**

Description ..... Orange red powder    Identification ..... Positive

Code	Size	Packaging	Notes
423341	10 g	Glass bottle	

**Dye for microscopy (histology). Indicator acid - base (pH 11.0 ÷ 13.0). For the extraction and determination of cationic surfactants**

	<b>Orcein</b> • Orceina • Orcéine • Orceina • Orcein	Synonym: Natural Red 28
	CAS: 1400-62-0 EEC-N: 215-750-6	 <b>Warning</b> H302 P264-P270-P301+P312a-P330-P501a



### Orcein > RS - For microscopy - C.I. Natural Red 28

RS

Description ..... Brown powder Identification ..... Positive

Code	Size	Packaging	Notes
466858	5 g	Glass bottle	
466859	25 g	Glass bottle	

**Dye for botanical and histology**

	<b>Orcinol monohydrate</b> • Orcina monodrato • Orcinol • Orcina monohidrato • Orcinol monohydrate	Synonym: 3,5-Dihydroxytoluene   5-Methylresorcinol
	C <sub>7</sub> H <sub>6</sub> O <sub>2</sub> ·H <sub>2</sub> O Molecular Weight: 142,15 CAS: 6153-39-5	 <b>Warning</b> H302-H315-H319-H335 P261-P271-P304+P340-P305+P351+P338- P332+P313-P403+P233

### Orcinol monohydrate > RPE - For analysis

RPE

Description ..... White powder or pinkish Melting point ..... 56 ÷ 61 °C Residue on ignition ..... ≤ 0.1 %  
Identification ..... Positive Water (K.F.) ..... 10 ÷ 14 % Assay (GLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
466908	5 g	Glass bottle	

	<b>Organic standard PCB</b> • Standard organico PCB • Standard organique PCB • Patrones orgánicos PCB • Organisch standard: PCB
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### Organic standard PCB > RS - For environmental analysis

RS

Code	Size	Packaging	Notes
507127	1 ml	Glass ampoule	PCB 29 [15862-07-4] 10µg/ml in isooctane
507128	1 ml	Glass ampoule	PCB 30 [35693-92-6] 10µg/ml in isooctane
507129	1 ml	Glass ampoule	PCB 73 [74338-23-1] 10µg/ml in isooctane
507131	1 ml	Glass ampoule	PCB 89 [73575-57-2] 10µg/ml in isooctane
507132	1 ml	Glass ampoule	PCB 90 [68194-07-0] 10µg/ml in isooctane
507133	1 ml	Glass ampoule	PCB 106 [70424-69-0] 10µg/ml in isooctane
507134	1 ml	Glass ampoule	PCB 164 [74472-45-0] 10µg/ml in isooctane
507135	1 ml	Glass ampoule	PCB 143 [68194-15-0] 10µg/ml in isooctane
507136	1 ml	Glass ampoule	PCB 155[33979-03-2] 10µg/ml in isooctane
507137	1 ml	Glass ampoule	PCB 198 [68194-17-2] 10µg/ml in isooctane
507138	1 ml	Glass ampoule	PCB 207 [52663-79-3] 10µg/ml in isooctane
507139	1 ml	Glass ampoule	PCB 209 [2051-24-3] 10µg/ml in isooctane
507154	1 ml	Glass ampoule	PCB 209 [2051-24-3] 100µg/ml in isooctane

**Custom formulations of organic substances are available. Contact us for more details.**


**Organic Standard: PAH multielement mixture**

- Standard organico: PAH mix • Standard organique: mélange multiéléments HAP • Patrones orgánicos : mezcla multi-HAP
- Organisch standard: PAH Multielement-Mischung

**Organic Standard: PAH multielement mixture > RS - For environmental analysis**
**RS**

Code	Size	Packaging	Notes
507063	5 x 1 ml	Glass ampoule	15 components 50µg/ml each in acetonitrile: Acenaphthene [CAS:83-32-9]; Anthracene [CAS:120-12-7]; Benzo(a)anthracene [CAS:56-55-3]; Benzo(a)pyrene [CAS:50-32-8]; Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(g,h,i)perylene [CAS:191-24-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Chrysene [CAS:218-01-9]; Dibenzo(a,h)anthracene [CAS:53-70-3]; Fluoranthene [CAS:206-44-0]; Fluorene [CAS:86-73-7]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]; Naphthalene [CAS:91-20-3]; Phenanthrene [CAS:85-01-8]; Pyrene [CAS:129-00-0]
506835	10 x 1 ml	Glass ampoule	13 components in acetonitrile/ acetone 95/5: Phenanthrene [CAS:85-01-8] 600µg/ml; Anthracene [CAS:120-12-7] 40µg/ml; Fluoranthene [CAS:206-44-0] 160µg/ml; Pyrene [CAS:129-00-0] 160µg/ml; Benzo(a)anthracene [CAS:56-55-3] 20µg/ml; Chrysene [CAS:218-01-9] 80µg/ml; (95/5) Benzo(b)fluoranthene [CAS:205-99-2] 20µg/ml; Benzo(k)fluoranthene [CAS:207-08-9] 10µg/ml; Benzo(j)fluoranthene [CAS:205-82-3] 20µg/ml; Benzo(a)pyrene [CAS:50-32-8] 20µg/ml; Dibenzo(a,h)anthracene [CAS:53-70-3] 10µg/ml; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5] 12µg/ml; Benzo(g,h,i)perylene [CAS:191-24-2] 20µg/ml
506878	1 ml	Glass ampoule	19 components 100 µg/ml each in acetonitrile: Naphthalene [CAS:91-20-3]; Acenaphthylene [CAS:208-96-8]; 1-Methylnaphthalene [CAS:90-12-0]; 2-Methylnaphthalene [CAS:91-57-6]; Acenaphthene [CAS:83-32-9]; Fluorene [CAS:86-73-7]; Phenanthrene [CAS:85-01-8]; Anthracene [CAS:120-12-7]; Fluoranthene [CAS:206-44-0]; Pyrene [CAS:129-00-0]; 2-Methyl-Fluoranthene [CAS:33543-31-6]; Benzo(a)anthracene [CAS:56-55-3]; Chrysene [CAS:218-01-9]; Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Benzo(a)pyrene [CAS:50-32-8]; Benzo(g,h,i)perylene [CAS:191-24-2]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]; Dibenzo(a,h)anthracene [CAS:53-70-3]
506938	1 ml	Glass ampoule	23 components 1 µg/ml each in methanol: Anthracene [CAS:120-12-7]; Fluoranthene [CAS:206-44-0]; Naphthalene [CAS:91-20-3]; Benzo(a)pyrene [CAS:50-32-8]; Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(g,h,i)perylene [CAS:191-24-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]; Biphenyl [CAS:92-52-4]; Acenaphthene [CAS:83-32-9]; Acenaphthylene [CAS:208-96-8]; Benzo(a)anthracene [CAS:56-55-3]; Chrysene [CAS:218-01-9]; Dibenzo(a,h)anthracene [CAS:53-70-3]; Fluorene [CAS:86-73-7]; 2-Methylnaphthalene [CAS:91-57-6]; 2-Methyl-Fluoranthene [CAS:33543-31-6]; Phenanthrene [CAS:85-01-8]; Pyrene [CAS:129-00-0]; 1-Benzothiophene [CAS:95-15-8]; Dibenzothiophene [CAS:132-65-0]; Benzo(e)pyrene [CAS:192-97-2]; Perylene [CAS:198-55-0]
506979	1 ml	Glass ampoule	6 components in acetonitrile: Fluoranthene [CAS:206-44-0] 2mg/l; Benzo(b)fluoranthene [CAS:205-99-2] 2mg/l; Benzo(k)fluoranthene [CAS:207-08-9] 2mg/l; Benzo(a)pyrene [CAS:50-32-8] 2mg/l; Benzo(g,h,i)perylene [CAS:191-24-2] 10mg/l; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5] 10mg/l
506980	1 ml	Glass ampoule	15 components in acetonitrile: Acenaphthene [CAS:83-32-9] 5mg/l; Fluorene [CAS:86-73-7] 5mg/l; Fluoranthene [CAS:206-44-0] 5mg/l; Benzo(a)anthracene [CAS:56-55-3] 5mg/l; Chrysene [CAS:218-01-9] 5mg/l; Benzo(b)fluoranthene [CAS:205-99-2] 5mg/l; Benzo(a)pyrene [CAS:50-32-8] 5mg/l; Dibenzo(a,h)anthracene [CAS:53-70-3] 5mg/l; Benzo(g,h,i)perylene [CAS:191-24-2] 10mg/l; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5] 10mg/l; 2-Methylnaphthalene [CAS:91-57-6] 10mg/l; 2-Methyl-Fluoranthene [CAS:33543-31-6] 10mg/l; Anthracene [CAS:120-12-7] 2mg/l; Benzo(k)fluoranthene [CAS:207-08-9] 2mg/l; Pyrene [CAS:129-00-0] 20mg/l

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Code	Size	Packaging	Notes
507094	1 ml	Glass ampoule	19 components in Methanol: 2-Methylnaphthalene [CAS:91-57-6] 40mg/l; Anthracene [CAS:120-12-7] 20mg/l; Fluoranthene [CAS:206-44-0] 20mg/l; 2-Methyl-Fluoranthene [CAS:33543316] 20mg/l Benzo(a)anthracene [CAS:56-55-3] 20mg/l; Benzo(b)fluoranthene [CAS:205-99-2] 20mg/l Benzo(k)fluoranthene [CAS:207-08-9] 20mg/l; Benzo(a)pyrene [CAS:50-32-8] 20mg/l; Dibenzo(a,h)anthracene [CAS:53-70-3] 20mg/l; Benzo(g,h,i)perylene [CAS:191-24-2] 20mg/l; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5] 20mg/l; Benzo(b)chrysene [CAS:214-17-5] 2mg/l; Naphthalene [CAS:91-20-3] 40mg/l; Acenaphthene [CAS:83-32-9] 40mg/l; Fluorene [CAS:86-73-7] 20mg/l; Phenanthrene [CAS:85-01-8] 20mg/l; Pyrene [CAS:129-00-0] 20mg/l; Chrysene [CAS:218-01-9] 20mg/l; Acenaphthylene [CAS:208-96-8] 400mg/l
507859	1.5 ml	Glass ampoule	15 components 1 µg/ml each in dichloromethane: Naphthalene [CAS:91-20-3]; Acenaphthene [CAS:83-32-9]; Fluorene [CAS:86-73-7]; Phenanthrene [CAS:85-01-8]; Anthracene [CAS:120-12-7]; Fluoranthene [CAS:206-44-0]; Pyrene [CAS:129-00-0]; Benzo(a)anthracene [CAS:56-55-3]; Chrysene [CAS:218-01-9] Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Benzo(a)pyrene [CAS:50-32-8]; Dibenzo(a,h)anthracene [CAS:53-70-3]; Benzo(g,h,i)perylene [CAS:191-24-2]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]
507899	1.5 ml	Glass ampoule	15 components 1 µg/ml each in dichloromethane: Naphthalene [CAS:91-20-3]; Acenaphthene [CAS:83-32-9]; Fluorene [CAS:86-73-7]; Phenanthrene [CAS:85-01-8]; Anthracene [CAS:120-12-7]; Fluoranthene [CAS:206-44-0]; Pyrene [CAS:129-00-0]; Benzo(a)anthracene [CAS:56-55-3]; Chrysene [CAS:218-01-9] Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Benzo(a)pyrene [CAS:50-32-8]; Dibenzo(a,h)anthracene [CAS:53-70-3]; Benzo(g,h,i)perylene [CAS:191-24-2]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]
506821	10 ml	Glass ampoule	19 components 10mg/l each in methanol: Naphthalene [CAS:91-20-3]; Acenaphthylene [CAS:208-96-8]; Acenaphthene [CAS:83-32-9]; Fluorene [CAS:86-73-7]; Phenanthrene [CAS:85-01-8]; Anthracene [CAS:120-12-7]; Fluoranthene [CAS:206-44-0]; Pyrene [CAS:129-00-0]; Benzo(a)anthracene [CAS:56-55-3]; Chrysene [CAS:218-01-9]; Benzo(b)fluoranthene [CAS:205-99-2]; Benzo(k)fluoranthene [CAS:207-08-9]; Benzo(a)pyrene [CAS:50-32-8]; Dibenzo(a,h)anthracene [CAS:53-70-3]; Benzo(g,h,i)perylene [CAS:191-24-2]; Indeno(1,2,3-c,d)pyrene [CAS:193-39-5]; Benzo(e)pyrene [CAS:192-97-2]; 2-Methylnaphthalene [CAS:91-57-6]; 2-Methyl-Fluoranthene [CAS:33543-31-6]

**Custom formulations of organic substances are available. Contact us for more details.**



**Organic Standard: PCB multielement mixture**

- Standard organico: PCB mix • Standard organique: mélange multielements PCB • Patrones orgánicos : mezcla multi-PCB
- Organisch standard: PCB Multielement-Mischung

**Classification transport**

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H315-H336-H304-H410  
 P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

**Organic Standard: PCB multielement mixture > RS - For environmental analysis****RS**

Code	Size	Packaging	Notes
507103	5 x 1 ml	Glass ampoule	7 components 10 µg/ml each in isooctane: PCB 28 [CAS:7012-37-5]; PCB 52 [CAS:35693-99-3]; PCB 101 [CAS:37680-73-2]; PCB 118 [CAS:31508-00-6]; PCB 138 [CAS:35065-28-2]; PCB 153 [CAS:35065-27-1]; PCB 180 [CAS:35065-29-3]
507609	1 ml	Glass ampoule	2 components 100 µg/ml each in isooctane: PCB 30 [CAS:35693-92-6]; PCB 155 [CAS:33979-03-2]
507679	1 ml	Glass ampoule	8 components 100 µg/ml each in hexane: PCB 28 [CAS:7012-37-5]; PCB 52 [CAS:35693-99-3]; PCB 101 [CAS:37680-73-2]; PCB 118 [CAS:31508-00-6]; PCB 138 [CAS:35065-28-2]; PCB 153 [CAS:35065-27-1]; PCB 180 [CAS:35065-29-3]; PCB 194 [CAS:35694-08-7]
507062	1.2 ml	Glass ampoule	14 components 10 mg/l each in hexane: PCB 28 [CAS:7012-37-5]; PCB 31 [CAS:16606-02-3]; PCB 52 [CAS:35693-99-3]; PCB 101 [CAS:37680-73-2]; PCB 105 [CAS:32598-14-4]; PCB 118 [CAS:31508-00-6]; PCB 132 [CAS:38380-05-1]; PCB 138 [CAS:35065-28-2]; PCB 149 [CAS:38380-04-0]; PCB 153 [CAS:35065-27-1]; PCB 160 [CAS:41411-62-5]; PCB 163 [CAS:74472-44-9]; PCB 180 [CAS:35065-29-3]; PCB 193 [CAS:69782-91-8]
506732	5 ml	Glass ampoule	19 components in ethyle acetate: PCB 18 [CAS:37680-65-2] 0.34mg/l; PCB 28 [CAS:7012-37-5] 0.6mg/l; PCB 52 [CAS:35693-99-3] 0.9mg/l; PCB 77 [CAS:32598-13-3] 2.2mg/l; PCB 81 [CAS:70362-50-4] 3.3mg/l; PCB 101 [CAS:37680-73-2] 2.28mg/l; PCB 105 [CAS:32598-14-4] 2.6mg/l; PCB 114 [CAS:74472-37-0] 9.6mg/l; PCB 118 [CAS:31508-00-6] 2.6mg/l; PCB 123 [CAS:65510-44-3] 2.7mg/l; PCB 126 [CAS:57465-28-8] 3mg/l; PCB 138 [CAS:35065-28-2] 6mg/l; PCB 153 [CAS:35065-27-1] 5mg/l; PCB 156 [CAS:38380-08-4] 5mg/l; PCB 157 [CAS:69782-90-7] 7mg/l; PCB 167 [CAS:52663-72-6] 8mg/l; PCB 169 [CAS:32774-16-6] 10mg/l; PCB 180 [CAS:35065-29-3] 10mg/l; PCB 189 [CAS:39635-31-9] 7mg/l
507889	5 ml	Glass ampoule	14 components 1 mg/l each in hexane: PCB 28 [CAS:7012-37-5]; PCB 52 [CAS:35693-99-3]; PCB 101 [CAS:37680-73-2]; PCB 153 [CAS:35065-27-1]; PCB 138 [CAS:35065-28-2]; PCB 180 [CAS:35065-29-3] PCB 194 [CAS:35694-08-7]; 1,2,4-Trichlorobenzene [CAS:120-82-1]; Hexachloro-1, 3-butadiene [CAS:87-68-3]; Hexachlorobenzene [CAS:118-74-1]; Alpha-HCH [CAS:319-84-6]; Beta-HCH [CAS:319-85-7]; Gamma-HCH (Lindane) [CAS:58-89-9]; Delta-HCH [CAS:319-86-8]
507115	10 ml	Glass ampoule	14 components 10 µg/ml each in isooctane according to EN 61619: PCB 18 [CAS:37680-65-2]; PCB 28 [CAS:7012-37-5]; PCB 31 [CAS:16606-02-3]; PCB 44 [CAS:41464-39-5]; PCB 52 [CAS:35693-99-3]; PCB 101 [CAS:37680-73-2]; PCB 118 [CAS:31508-00-6]; PCB 138 [CAS:35065-28-2]; PCB 149 [CAS:38380-04-0]; PCB 153 [CAS:35065-27-1]; PCB 170 [CAS:35065-30-6]; PCB 180 [CAS:35065-29-3]; PCB 194 [CAS:35694-08-7]; PCB 209 [CAS:2051-24-3]
509144	10 ml	Glass ampoule	PCB 138 [35065-28-2] 50µg/ml in isooctane
509145	10 ml	Glass ampoule	PCB 153 [35065-27-1] 50µg/ml in isooctane
509146	10 ml	Glass ampoule	PCB 18 [37680-65-2] 50µg/ml in isooctane
509147	10 ml	Glass ampoule	PCB 28 [7012-37-5] 50µg/ml in isooctane
509148	10 ml	Glass ampoule	PCB 52 [35693-99-3] 50µg/ml in isooctane

Custom formulations of organic substances are available. Contact us for more details.





### Organic standard: Pesticide mixture

- Standard organico: Pesticidi mix • Standard organique: mélange de pesticides • Patrones orgánicos : mezcla de pesticidas
- Organisch standard: Pestizidmischung

#### Organic standard: Pesticide mixture > RS - For environmental analysis

RS

Code	Size	Packaging	Notes
506897	1 ml	Glass ampoule	45 components 10mg/ml each in cyclohexane/acetone: Acetochlor [CAS:34256-82-1]10mg/l; Aclonifen [CAS:74070-46-5] 10mg/l; Alachlor [CAS:15972-60-8] 10mg/l; Bifenthrin [CAS:82657-04-3] 10mg/l; Cadusafos [CAS:95465-99-9] 10mg/l; Captan [CAS:133-06-2] 10mg/l; Carbofuran [CAS:1563-66-2] 10mg/l; Chlorfenvinphos [CAS:470-90-6]10mg/l; Chlormephos [CAS:24934-91-6] 10mg/l; Chlorothalonil [CAS:1897-45-6] 10mg/l Chlorpyrifos [CAS:2921-88-2] 10mg/l; Chlorpyrifos methyl [CAS:5598-13-0] 10mg/l; lambda-Cyhalothrin [CAS:91465-08-6] 10mg/l; Cypermethrin [CAS:52315-07-8]10mg/l; Delta-HCH [CAS:319-86-8] 10mg/l; Diazinon [CAS:333-41-5] 10mg/l; Dichlobenil [CAS:1194-65-6] 10mg/l; Dinoterb [CAS:1420-07-1] 10mg/l; Endosulfan-total (sulfate) [CAS:1031-07-8] 10mg/l; Fipronil [CAS:120068-37-3] 10mg/l; Folpet [CAS:133-07-3] 10mg/l; Heptachlor-endo-epoxide [CAS:28044-83-9] 10mg/l; Hexachloro-1,3-butadiene [CAS:87-68-3]10mg/l; Iprodione [CAS:36734-19-7] 10mg/l; Isofenphos [CAS:25311-71-1]10mg/l; Malathion [CAS:121-75-5] 10mg/l; Metazachlor [CAS:67129-08-2] 10mg/l; Oxadiazon [CAS:19666-30-9] 10mg/l; Oxyfluorfen [CAS:42874-03-3] 10mg/l; Parathion (Parathion-ethyl) [CAS:56-38-2] 10mg/l; Parathion-methyl [CAS:298-00-0] 10mg/l; Pendimethalin [CAS:40487-42-1] 10mg/l; Pentachlorobenzene [CAS:608-93-5] 10mg/l; Procymidone [CAS:32809-16-8] 10mg/l; Propachlor [CAS:1918-16-7] 10mg/l; Tebutam [CAS:35256-85-0] 10mg/l; Tefluthrin [CAS:79538-32-2] 10mg/l; Terbufos [CAS:13071-79-9] 10mg/l; Tolyfluanid [CAS:731-27-1] 10mg/l; Triazophos [CAS:24017-47-8] 10mg/l; Trifluralin [CAS:1582-09-8] 10mg/l; Vinclozolin [CAS:50471-44-8] 10mg/l; Piperonyl butoxide [CAS:51-03-6] 10mg/l; Metolachlor [CAS:51218-45-2] 5mg/l; S-Metolachlor [CAS:87392-12-9] 5mg/l

Code	Size	Packaging	Notes
506905	1 ml	Glass ampoule	79 components in acetone: Bifenthrin [CAS:82657-04-3] 120µg/ml; lambda-Cyhalothrin [CAS:91465-08-6] 100µg/ml; Cypermethrin [CAS:5231 5-07-8] 130µg/ml; Deltamethrin [CAS:52918-63-5] 130µg/ml; Fenvalerate [CAS:51630-58-1] 105µg/ml; Permethrin [CAS:52645-53-1] 100µg/ml; tau-Fluvalinate [CAS:102851-06-9] 100µg/ml; Tetramethrin [CAS:7696-12-0] 100µg/ml; Aldrin [CAS:309-00-2] 20µg/ml; cis-Chlordane [CAS:5103-71-9] 20µg/ml; trans-Chlordane [CAS:5103-74-2] 20µg/ml; 2,4'-DDD [CAS:53-19-0] 20µg/ml; 4,4'-DDD (TDE) [CAS:72-54-8] 20µg/ml; 2,4'-DDE [CAS:3424-82-6] 20µg/ml; 4,4'-DDE [CAS:72-55-9] 20µg/ml; 2,4'-DDT [CAS:789-02-6] 20µg/ml; 4,4'-DDT [CAS:50-29-3] 20µg/ml; Dieldrin [CAS:60-57-1] 20µg/ml; Endosulfan-alpha [CAS:959-98-8] 20µg/ml; Endosulfan-beta [CAS:33213-65-9] 20µg/ml; Endosulfan-total (sulfate) [CAS:1031-07-8] 20µg/ml; Endrin [CAS:72-20-8] 20µg/ml; Endrin aldehyde [CAS:7421-93-4] 20µg/ml; Alp ha-HCH [CAS:319-84-6] 20µg/ml; Beta-HCH [CAS:319-85-7] 20µg/ml; Delta-HCH [CAS:319-86-8] 20µg/ml; Gamma-HCH (Lindane) [CAS:58-89-9] 20µg/ml; Heptachlor [CAS:76-44-8] 20µg/ml; Heptachlor-endo-epoxide [CAS:28044-83-9] 20µg/ml; Heptachlor-exo-epoxide [CAS:1024-57-3] 20µg/ml; Hexachlorobenzene [CAS:118-74-1] 20µg/ml; PCB 209 [CAS:2051-24-3] 20µg/ml; PCB 29 [CAS:15862-07-4] 20µg/ml; Vinclozolin [CAS:50471-44-8] 20µg/ml; Alachlor [CAS:15972-60-8] 100µg/ml; Bromopropylate [CAS:18181-80-1] 50µg/ml; Chlorothalonil [CAS:1897-45-6] 25µg/ml; Dicofol [CAS:115-32-2] 75µg/ml; Iprodione [CAS:36734-19-7] 200µg/ml; Nitrofen [CAS:1836-75-5] 20µg/ml; oxy-Chlordane [CAS:27304-13-8] 20µg/ml; Phosalone [CAS:2310-17-0] 20µg/ml; Procymidone [CAS:32809-16-8] 150µg/ml; Tetradifon [CAS:116-29-0] 20µg/ml; Bromophos-ethyl [CAS:4824-78-6] 100µg/ml; Bromophos-methyl [CAS:2104-96-3] 100µg/ml; Chlorfenvinphos [CAS:470-90-6] 100µg/ml; Chlorpyrifos (Chlorpyrifos-ethyl) [CAS:2921-88-2] 100µg/ml; Chlorpyrifos methyl [CAS:5598-13-0] 100µg/ml; Diazinon [CAS:333-41-5] 100µg/ml; Dichlorvos [CAS:62-73-7] 100µg/ml; Dimethoate [CAS:60-51-5] 100µg/ml; Disulfoton [CAS:298-04-4] 50µg/ml; Fenchlorphos [CAS:299-84-3] 100µg/ml; Fenthion [CAS:55-38-9] 100µg/ml; Malathion [CAS:121-75-5] 100µg/ml; Parathion (Parathion-ethyl) [CAS:56-38-2] 100µg/ml; Parathion-methyl [CAS:298-00-0] 100µg/ml; Pirimiphos-methyl [CAS:29232-93-7] 100µg/ml; Terbufos [CAS:13071-79-9] 100µg/ml; Acephate [CAS:30560-19-1] 100µg/ml; Azinphos-ethyl [CAS:2642-71-9] 400µg/ml; Azinphos-methyl [CAS:86-50-0] 400µg/ml; Demeton-S-methyl [CAS:919-86-8] 100µg/ml; Ethion [CAS:563-12-2] 20µg/ml; Fenamiphos [CAS:22224-92-6] 50µg/ml; Fenitrothion [CAS:122-14-5] 50µg/ml; Fonofos [CAS:944-22-9] 40µg/ml; Metalaxyl [CAS:57837-19-1] 600µg/ml; Methamidophos [CAS:10265-92-6] 100µg/ml; Methidathion [CAS:950-37-8] 100µg/ml; Mevinphos [CAS:7786-34-7] 100µg/ml; Monocrotophos [CAS:6923-22-4] 100µg/ml; Oxa dixyl [CAS:77732-09-3] 400µg/ml; Phorate [CAS:298-02-2] 50µg/ml; Phosphamidon [CAS:13171-21-6] 100µg/ml; Pirimiphos-ethyl [CAS:23505-41-1] 50µg/ml; Triazophos [CAS:24017-47-8] 100µg/ml; Tefluthrin [CAS:79538-32-2] 10µg/ml
506948	1 ml	Glass ampoule	29 component 20µg/ml each in toluene/acetone: Aldrin [CAS:309-00-2]; Alpha-HCH [CAS:319-84-6]; Beta-HCH [CAS:319-85-7]; Delta-HCH [CAS:319-86-8]; cis-Chlordane (alpha-Chlordane) [CAS:5103-71-9]; Dieldrin [CAS:60-57-1]; Endosulfan-alpha [CAS:959-98-8]; Endosulfan-beta [CAS:33213-65-9]; Endosulfan-total (sulfate) [CAS:1031-07-8]; Endrin [CAS:72-20-8]; Endrin aldehyde [CAS:7421-93-4]; Endrin ketone [CAS:53494-70-5]; Gamma-HCH (Lindane) [CAS:58-89-9]; trans-Chlordane (Gamma-Chlordane) [CAS:5103-74-2]; Heptachlor [CAS:76-44-8]; Heptachlor-exo-epoxide (cis-Heptachlorepoxyde (cis-, exo-,)) [CAS:1024-57-3]; Methoxychlor (DMTD) [CAS:72-43-5]; 4,4'-DDD (TDE) [CAS:72-54-8]; 4,4'-DDE [CAS:72-55-9]; 4,4'-DDT [CAS:50-29-3]; Dicofol [CAS:115-32-2]; Nitrofen [CAS:1836-75-5]; Isodrin [CAS:465-73-6]; Alachlor [CAS:15972-60-8]; Hexachlorobenzene (HCB) [CAS:118-74-1]; 2,4'-DDE [CAS:3424-82-6]; 2,4'-DDD [CAS:53-19-0]; 2,4'-DDT [CAS:789-02-6]; oxy-Chlordane [CAS:27304-13-8]; trans-Nonachlor [CAS:39765-80-5]

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Code	Size	Packaging	Notes
506950	1 ml	Glass ampoule	17 components 20µg/ml each in toluene/acetone: Cyfluthrin [CAS:68359-37-5]; Cypermethrin [CAS:52315-07-8]; Fenvalerate [CAS:51630-58-1]; Permethrin [CAS:52645-53-1]; Phenothrin [CAS:26002-80-2]; Tetramethrin [CAS:7696-12-0]; lambda-Cyhalothrin [CAS:91465-08-6]; Piperonyl butoxide [CAS:51-03-6]; Bifenthrin [CAS:82657-04-3]; Chlorothalonil [CAS:1897-45-6]; Quintozene [CAS:82-68-8]; Tecnazene [CAS:117-18-0]; Chlorobenzilate [CAS:510-15-6]; Vinclozolin [CAS:50471-44-8]; Chlordecone hydrate [CAS:143-50-0]; Captan [CAS:133-06-2]
506803	10 ml	Bottle	12 components 10µg/ml each in acetonitrile: Azoxystrobin [CAS:131860-33-8]; Boscalid [CAS:188425-85-6]; Carbendazim [CAS:10605-21-7]; Chlorpyrifos [CAS:2921-88-2]; Cyprodinil [CAS:121552-61-2]; Linuron [CAS:330-55-2]; Metalaxyl [CAS:57837-19-1]; Methomyl [CAS:16752-77-5]; Myclobutanil [CAS:88671-89-0]; Pyrimethanil [CAS:53112-28-0]; Pirimicarb [CAS:23103-98-2]; Thiabendazole [CAS:148-79-8]

**Custom formulations of organic substances are available. Contact us for more details.**



### Organic standard: Mixture for hydrocarbon analysis

- Soluzione standard per analisi degli idrocarburi • Mélange standard pour analyse des hydrocarbures • Mezcla estándar para análisis de hidrocarburos
- Standardgemisch für die Kohlenwasserstoffanalyse

### Organic standard: Mixture for hydrocarbon analysis > RS - For environmental analysis

RS

Code	Size	Packaging	Notes
506736	1 ml	Glass ampoule	5 components 5000µg/ml each in methanol: Benzene; Toluene; o-Xylene; m-Xylene; p-Xylene
506742	1 ml	Glass ampoule	14 components in methanol: 1,1-Dichloroethene 1000µg/ml; Dichloromethane 5000µg/ml; trans-1,2-Dichloroethene 5000µg/ml; 1,1-Dichloroethane 5000µg/ml; cis-1,2-Dichloroethene 5000µg/ml; 1,2-Dichloroethane 5000µg/ml; Chloroform 500µg/ml; 1,1,1-Trichloroethane 500µg/ml; Trichloroethene 500µg/ml; Bromodichloromethane 500µg/ml; Dibromochloromethane 500µg/ml; Tribromomethane 500µg/ml; Tetrachloromethane 100µg/ml; Tetrachloroethene 100µg/ml; Hydrocarbons Mixture Benzene; 1-Bromo-2-chloroethane; Chlorobenzene; 1,1-Dichloroethane; 1,2-dichloroethane
507189	1 ml	Glass ampoule	6 components 1000 µg/ml each in methanol: Benzene; Toluene; o-Xylene; m-Xylene; p-Xylene; Ethylbenzene
507190	1 ml	Glass ampoule	6 components 1000 µg/ml each in methanol: Trichloroethene; Tetrachloroethene; 1,2-Dichloroethane; Tetrachloromethane; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane
507191	1 ml	Glass ampoule	4 components 1000 µg/ml each in methanol: Tribromomethane; Chloroform; Bromodichloromethane; Dibromochloromethane
507474	2 ml	Glass ampoule	6 components 1000 µg/ml each in carbon disulfide: Benzene; Ethylbenzene; Toluene; m-Xylene; o-Xylene; p-Xylene
506614	100 ml	Bottle	22 components 2500mg/Kg each 1-Bromo-2-chloroethane; Chlorobenzene; 1,1-Dichloroethane; 1,1-Dichloroethene; cis-1,2-Dichloroethene; trans-1,2-Dichloroethene; Dichloromethane; Pentachloroethane; 1,1,2,2-Tetrachloroethane; Tetrachloroethene; Tetrachloromethane; 1,1,2-Trichloroethane; Trichloroethene; Chloroprene; Chloromethane; Vinylchloride; 1,3-Butadiene; Chloroethane; 1,2-Dichlorobutane; Ethylene; Chloroform; Matrix: Benzene

**Custom formulations of organic substances are available. Contact us for more details.**

## Organic standard: Mixture for hydrocarbon analysis > RS - For environmental analysis according to NF EN ISO 9377-2

RS

Code	Size	Packaging	Notes
506002	1 ml	Glass ampoule	Standard quality control of two mineral oils in acetone
506010	1 ml	Glass ampoule	Mixture of mineral oil without additive 2 to 5 mg / ml each in hexane
506020	1 ml	Glass ampoule	Standard mixture of n-alkanes (C10 to C40 in pairs) of 50 mcg / ml each in hexane
506012	5 ml	Glass ampoule	2 component: 5g/l each of Mineral Oil [CAS:8042-47-5]; Diesel Oil in n-Hexane
506040	5 ml	Glass ampoule	N-tetracontane mixture (20 mg / l) and n-decane (20 mg / l) in hexane
506011	10 ml	Glass ampoule	Mixture of mineral oil without additive 2 to 1 mg / ml each in hexane
506013	10 ml	Glass ampoule	2 components: 5g/l each of Mineral Oil [CAS:8042-47-5]; Diesel Oil in n-Hexane
506021	10 ml	Glass ampoule	Standard mixture of n-alkanes (C10 to C40 in pairs) of 50 µg / ml each in hexane
506030	10 ml	Glass ampoule	Mother solution stearyl stearate 2 g / l in hexane

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Orthophosphoric acid 99%

• Acido fosforico 99% • Acide phosphorique 99% • Acido orto-fosforico 99% • ortho-Phosphorsäure 99%

Synonym:  
Phosphoric acid

H<sub>3</sub>PO<sub>4</sub>  
Molecular Weight: 98  
CAS: 7664-38-2  
EEC-N: 231-633-2

**Classification transport**  
ONU: 3453  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

## Orthophosphoric acid 99% > RPE - For analysis

RPE

Description ..... White deliquescent crystals	Nitrate ..... ≤2 ppm	Co ..... ≤5 ppm	Na ..... ≤50 ppm
Identification ..... Positive	Reducing subst as H3PO3 ..... ≤50 ppm	Cu ..... ≤5 ppm	Ni ..... ≤5 ppm
Chloride ..... ≤2 ppm	Silicate ..... ≤500 ppm	Fe ..... ≤10 ppm	Pb ..... ≤5 ppm
Fluoride ..... ≤5 ppm	Sulphate ..... ≤10 ppm	K ..... ≤20 ppm	Zn ..... ≤10 ppm
Ca, Mg and ppt by NH4OH ..... ≤50 ppm	As ..... ≤0.5 ppm	Mg ..... ≤10 ppm	Assay (acidimetric) ..... ≥99 %
Heavy metals (Pb) ..... ≤10 ppm	Cd ..... ≤5 ppm	Mn ..... ≤0.5 ppm	

Code	Size	Packaging	Notes
405967	1 kg	Plastic bottle	
405961	10 kg	Plastic tank	



## Orthophosphoric acid 85%

• Acido fosforico 85% • Acide phosphorique 85% • Acido orto-fosforico 85% • ortho-Phosphorsäure 85%

Synonym:  
Phosphoric acid

H<sub>3</sub>PO<sub>4</sub>  
Molecular Weight: 98  
CAS: 7664-38-2

**Classification transport**  
ONU: 1805  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

## Orthophosphoric acid 85% > RS - VLSI - For electronic use

RS

Code	Size	Packaging	Notes
527592	1 l	Plastic bottle	
527591	2.5 l	Plastic bottle	

For specifications, contact our customer service for a certificate of analysis

## Orthophosphoric acid 85% > RS - RSE - For electronic use

**RS**

Description .....	Clear liquid	Heavy metals (Pb).....	≤5 ppm	Ca .....	≤20 ppm	Mg .....	≤5 ppm
Colour (APHA) .....	≤10	Nitrate .....	≤3 ppm	Cd .....	≤5 ppm	Mn .....	≤0.5 ppm
Identification .....	Positive	Subst. reducing KMnO <sub>4</sub> .....	≤10 ppm	Co .....	≤1 ppm	Na .....	≤30 ppm
Density at 20° C .....	1.689 ÷ 1.701	Sulphate .....	≤5 ppm	Cu .....	≤2 ppm	Ni .....	≤3 ppm
Assay (acidimetric) .....	85.0 ÷ 87.0 %	Volatile acid .....	≤3 ppm	Fe .....	≤5 ppm	Pb .....	≤1 ppm
Ammonium .....	≤5 ppm	Al .....	≤0.5 ppm	Ga .....	≤0.1 ppm	Sr .....	≤5 ppm
Chloride .....	≤1 ppm	As + Sb (as As) .....	≤0.5 ppm	K .....	≤5 ppm	Zn .....	≤10 ppm
Fluoride .....	≤5 ppm	Bi .....	≤1 ppm	Li .....	≤1 ppm		

Code	Size	Packaging	Notes
406022	1 l	Plastic bottle	
406021	2.5 l	Plastic bottle	

## Orthophosphoric acid 85% > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description .....	Clear liquid	Nitrate .....	≤3 ppm	K .....	≤50 ppm	Appearance of solution .....	Conform Ph. Eur.
Colour (APHA) .....	≤10	Reducing substances .....	≤25 ppm	Mg .....	≤10 ppm	Substances precipitated with ammonia.....	Conform Ph. Eur.
Identification .....	Positive	Sulphate .....	≤5 ppm	Mn .....	≤0.5 ppm	Phosphorous and hypophosphorous acid ...	Conform Ph. Eur.
Density at 20° C .....	1.689 ÷ 1.701	As .....	≤0.5 ppm	Na .....	≤250 ppm	Alkali phosphates .....	Conform USP-NF
Volatile acid .....	≤10 ppm	Ca .....	≤20 ppm	Ni .....	≤5 ppm		
Water-insoluble matter .....	≤10 ppm	Cd .....	≤5 ppm	Pb .....	≤1 ppm		
Chloride .....	≤1 ppm	Co .....	≤1 ppm	Sb .....	≤4 ppm		
Fluoride .....	≤5 ppm	Cu .....	≤2 ppm	Zn .....	≤10 ppm		
Heavy metals (Pb).....	≤5 ppm	Fe .....	≤5 ppm	Assay (acidimetric) .....	85 ÷ 87 %		

Code	Size	Packaging	Notes
406002	1 l	Plastic bottle	
406005	2.5 l	Plastic bottle	
406003	40 kg	Plastic drum	

## Orthophosphoric acid 85% > ERBapharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBapharm**

Description .....	Clear colourless liquid	Subst. ppt by NH <sub>4</sub> OH.....	Conform Ph.Eur.	Chloride.....	≤50 ppm	Fe .....	≤50 ppm
Identification .....	Positive	Nitrate .....	Conform USP-NF	Sulphate.....	≤100 ppm	Assay (acidimetric) .....	85 ÷ 88 %
Appearance of solution.....	Conform Ph.Eur.	Alkali phosphates .....	Conform USP-NF	Heavy metals (Pb).....	≤10 ppm	Origin (BSE/TSE).....	Synthesis
Hypophos. phosphor acid...Conform Ph.Eur.		Density at 20° C .....	1.689 ÷ 1.701	As .....	≤2 ppm	Residual solvents (Current ICH).....	Conform

Code	Size	Packaging	Notes
304061	1 l	Plastic bottle	
304062	2.5 l	Plastic bottle	
304063	40 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Orthophosphoric acid 85% > RE - Pure

**RE**

Description .....	Clear colourless liquid	Density at 20°C .....	1.69 ÷ 1.71	Iron (Fe).....	≤ 20 ppm
Assay .....	85.0 ÷ 86.0 %	Residue on ignition .....	≤ 20 ppm	Chloride (Cl).....	≤ 5 ppm

Code	Size	Packaging	Notes
528535	5 l	Tank	





## Orthophosphoric acid 75%

• Acido fosforico 75% • Acide phosphorique 75% • Acido orto-fosfórico 75% • ortho-Phosphorsäure 75%

Synonym:  
Phosphoric acid

H<sub>3</sub>PO<sub>4</sub>  
Molecular Weight: 98  
CAS: 7664-38-2

**Classification transport**  
ONU: 1805  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Orthophosphoric acid 75% > RE - Pure

RE

Description ..... Clear liquid Chloride..... ≤5 ppm As ..... ≤1 ppm  
Identification ..... Positive Heavy metals (Pb)..... ≤10 ppm Fe ..... ≤10 ppm  
Density at 20° C ..... 1.568 - 1.589 Sulphate..... ≤120 ppm Assay (acidimetric) ..... 74.0 - 76.0 %

Code	Size	Packaging	Notes
304051	1 l	Plastic bottle	
304054	2.5 l	Plastic bottle	
304052	85 kg	Plastic tank	



## Orthophosphoric acid 10%

• Acido fosforico 10% • Acide phosphorique 10% • Acido orto-fosfórico 10% • Ortho-phosphorsäure 10%

Synonym:  
Phosphoric acid

H<sub>3</sub>PO<sub>4</sub>  
Molecular Weight: 98  
CAS: 7664-38-2  
EEC-N: 231-633-2



**Warning**  
H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Orthophosphoric acid 10% > RS - For analysis

RS

Density d20/4 ..... 1.048 - 1.059 Assay ..... 9 - 11 %

Code	Size	Packaging	Notes
PS0084/22	5 l	Plastic tank	
PS0084/42	20 l	Plastic tank	



## Orthophosphoric acid-d3 85% in D2O

• Acido fosforico-d3 85% in D2O • Acide phosphorique-d3 85% dans D2O  
• Acido orto-fosforico-d3 85% in D2O • ortho-Phosphorsäure-d3 85% in D2O

Synonym:  
• Phosphoric acid-d3 solution  
• Trideuterophosphoric acid

D<sub>3</sub>O<sub>4</sub>P  
Molecular Weight: 101,02  
CAS: 14335-33-2

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Orthophosphoric acid-d3 85% in D2O > RS - For NMR - min 99%

RS

Code	Size	Packaging	Notes
P5055	25 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**



## Osmium standard solution

• Osmio standard soluzione • Osmium solution standard • Osmio, solución patrón • Osmium-Standardlösung

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Osmium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505758	100 ml	Plastic bottle	conc. 100 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**





## Osmolality Standards

• Osmolalità Standards • Etalons d'osmolalitié • Patrones de osmolalidad • Osmolalitätsstandards

### Osmolality Standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540301	12 x 5 ml	Glass ampoule	100mOsm/Kg H2O
540302	12 x 5 ml	Glass ampoule	150mOsm/Kg H2O
540303	12 x 5 ml	Glass ampoule	200mOsm/Kg H2O
540304	12 x 5 ml	Glass ampoule	2000mOsm/Kg H2O
540305	12 x 5 ml	Glass ampoule	290mOsm/Kg H2O
540306	12 x 5 ml	Glass ampoule	300mOsm/Kg H2O
540307	12 x 5 ml	Glass ampoule	400mOsm/Kg H2O
540308	12 x 5 ml	Glass ampoule	500mOsm/Kg H2O
540309	12 x 5 ml	Glass ampoule	850mOsm/Kg H2O
540310	12 x 5 ml	Glass ampoule	900mOsm/Kg H2O



## Osmolality Standards Protein Based

• Osmolalità standard a base di proteine • Etalons d'osmolalitié à base de protéines • Patrones de osmolalidad a base de proteínas • Osmolalitätsstandards basierend auf Proteinen

### Osmolality Standards Protein Based > RS - For calibration

RS

Code	Size	Packaging	Notes
540351	12 x 5 ml	Glass ampoule	240mOsm/Kg H2O
540352	12 x 5 ml	Glass ampoule	280mOsm/Kg H2O
540353	12 x 5 ml	Glass ampoule	320mOsm/Kg H2O



## Osmolality Standards Urine Based

• Osmolalità Standards a base di urina • Etalons d'osmolalitié à base d'urine • Patrones de osmolalidad a base de orina • Osmolalitätsstandards basierend auf Urin

### Osmolality Standards Urine Based > RS - For calibration

RS

Code	Size	Packaging	Notes
540354	12 x 5 ml	Glass ampoule	300mOsm/Kg H2O
540355	12 x 5 ml	Glass ampoule	800mOsm/Kg H2O



## Oxalic acid dihydrate

• Acido ossalico diidrato • Acide oxalique dihydraté • Acido oxálico dihidrato • Oxalsäuredihydrat

Synonym:  
Ethanedioic acid dihydrate

(COOH)<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 126,07  
CAS: 6153-56-6  
EEC-N: 205-634-3



**Danger**

H302-H318  
P264-P280i-P301+P312a-P305+P351+P338-P310a-P501a

### Oxalic acid dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description .....	White crystals	Total nitrogen .....	≤ 10 ppm	Heavy metals (Pb).....	≤ 5 ppm	Fe .....	≤ 2 ppm
Identification .....	Positive	Chloride.....	≤ 20 ppm	Residue on ignition.....	≤ 100 ppm	Assay (oxidimetric) .....	99.5 ÷ 102.5 %
Substances darkened by sulphuric acid .....	Conform	Water-insoluble matter .....	≤ 50 ppm	Ca .....	≤ 10 ppm	Sulphate .....	≤ 50 ppm

Code	Size	Packaging	Notes
408736	500 g	Plastic bottle	
408737	1 kg	Plastic bottle	
408731	5 kg	Plastic tank	
408733	25 kg	Plastic bucket	

## Oxalic acid dihydrate > RE - Pure

**RE**

Description ..... White crystals      Identification ..... Positive      Fe ..... ≤ 15 ppm      Assay (acidimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
305757	1 kg	Plastic bottle	
305758	5 kg	Plastic tank	



## Oxalic acid 0.5 mol/l (1N)

• Acido ossalico 0.5 mol/l (1N) • Acide oxalique 0.5 mol/l (1N) • Acido oxálico 0.5 mol/l (1N) • Oxalsäure 0.5 mol/l (1N)

 $(\text{COOH})_2$   
CAS: 144-62-7

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III

**Warning**  
H290-H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

## Oxalic acid 0.5 mol/l (1N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Assay (potentiometry) ..... 0.998 - 1.002 N

Code	Size	Packaging	Notes
408826	500 ml	Plastic bottle	

**45,02 g of C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>. Volumetric solution ready-to-use. For oxydometry. Stabilized with sulfuric acid**


## Oxalic acid 0.05 mol/l (0.1N)

• Acido ossalico 0.05 mol/l (0.1N) • Acide oxalique 0.05 mol/l (0.1N) • Acido oxálico 0.05 mol/l (0.1N) • Oxalsäure 0.05 mol/l (0.1N)

 $(\text{COOH})_2$   
Molecular Weight: 90,03  
CAS: 144-62-7

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III

**Warning**  
H290-H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

## Oxalic acid 0.05 mol/l (0.1N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Assay (potentiometry) ..... 0.0998 - 0.1002 N

Code	Size	Packaging	Notes
408856	500 ml	Plastic bottle	

**4,502 g of C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>. Volumetric solution ready-to-use. For oxydometry. Stabilized with sulfuric acid**

## Oxalic acid 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid      Identification ..... Positive      Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
408871		Plastic ampoule	Volume: 165 ml

**Volumetric concentrated solution to prepare 1 L of solution 0,1 N**


## Oxalic acid 0.005 mol/l (0.01N)

• Acido ossalico 0.005 mol/l (0.01N) • Acide oxalique 0.005 mol/l (0.01N) • Acido oxálico 0.005 mol/l (0.01N) • Oxalsäure 0.005 mol/l (0.01N)

 $(\text{COOH})_2$   
CAS: 144-62-7

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III

**Warning**  
H290-H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

## Oxalic acid 0.005 mol/l (0.01N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid      Identification ..... Positive      Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
408901		Plastic ampoule	Volume: 55 ml

**Volumetric concentrated solution to prepare 1 L of solution 0,01 N**

# OXA

Oxalic acid diammonium salt ▶ Ammonium oxalate monohydrate

2,2'-Oxydiethanol ▶ Diethylene glycol

## PABA ▶ p-Aminobenzoic acid

**Palladium standard solution**

• Palladio standard soluzione • Palladium solution standard • Paladio, solución patrón • Palladium-Standardlösung

**Palladium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615003600	100 ml	Plastic bottle	A 500 ppm solution Ref Ph.Eur 5003600

**Palladium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505772	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505775	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Palladium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503811	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503813	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503815	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
503817	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Palladium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507751	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507512	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Palladium (II) chloride**

• Palladio cloruro oso • Palladium (II) chlorure • Paladio (II) cloruro • Palladium (II) chlorid

PdCl<sub>2</sub>  
Molecular Weight: 177,31  
CAS: 7647-10-1  
EEC-N: 231-596-2**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group III**Danger**H290-H318-H317  
P261-P280a-P305+P351+P338-P310a-P362+P364-P333+P313**Palladium (II) chloride > RPE - For analysis**

RPE

Description ..... Red brown powder Identification ..... Positive Assay (gravimetric) ..... ≥59.5 % Pd

Code	Size	Packaging	Notes
467737	1 g	Glass bottle	
467731	10 g	Glass bottle	



## Palladium nitrate 2 g/l solution

• Palladio nitrato 2 g/L soluzione • Palladium nitrate 2 g/l • Paladio nitrato solución 2 g/l • Palladiumnitrat 2 g/l Lösung

Pd(NO<sub>3</sub>)<sub>2</sub>

Molecular Weight: 230,43 (an.)

CAS: 10102-05-3

### Classification transport

ONU: 3264

Transport Hazard class: 8

Packing group II



### Danger

H290-H332-H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

### Palladium nitrate 2 g/l solution > RS - Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503198	50 ml	Plastic bottle	Matrix: 1% Nitric acid
503202	50 ml	Bottle	Matrix: 15% Nitric acid



## Papanicolaou Haematoxylin solution according to Harris

• Papanicolaou Ematossilina soluzione secondo Harris • Papanicolaou Hématoxyline selon Harris • Papanicolaou Hematoxilina en solución según Harris  
• Papanicolaou Haematoxylin-Lösung nach Harris



### Danger

H318

P280i-P305+P351+P338-P310a

### Papanicolaou Haematoxylin solution according to Harris > RS - For histology

RS

Description .....Dark red liquid Identification .....Positive Max absorbance wave-length....555 ÷ 565 nm Absorbance(lambda max) ..... ≥0.52 uA

Code	Size	Packaging	Notes
446462	500 ml	Plastic bottle	In Vitro Diagnostic Medical Device
446464	6 x 500 ml	Plastic bottle	In Vitro Diagnostic Medical Device
446461	1 l	Plastic bottle	In Vitro Diagnostic Medical Device
446465	6 x 1 l	Plastic bottle	In Vitro Diagnostic Medical Device
446463	2.5 l	Plastic bottle	In Vitro Diagnostic Medical Device
446466	4 x 2.5 l	Plastic bottle	In Vitro Diagnostic Medical Device



## Papanicolaou solution EA 50

• Papanicolaou soluzione EA 50 • Papanicolaou solution EA 50 • Papanicolaou solución EA 50 • Papanicolaou-Lösung EA 50

### Classification transport

ONU: 1993

Transport Hazard class: 3

Packing group II



### Danger

H225-H319-H370-H373

P210-P241-P280-P303+P361+P353-

P305+P351+P338-P337+P313

### Papanicolaou solution EA 50 > RS - For histology

RS

Description .....Green clear liquid Identification .....Positive Maximum abs.Lambda max1(water,dil.1:200).630 - 634 nm Absorbance (Lambda max1,water,dil.1:200) ..... 0.24 - 0.30 Maximum abs.Lambda max2(water,dil.1:200).515 - 518 nm Absorbance (Lambda max2,water,dil.1:200) ..... 1.25 - 1.30

Code	Size	Packaging	Notes
467782	500 ml	Plastic bottle	In Vitro Diagnostic Medical Device
E467784	6 x 500 ml	Plastic bottle	In Vitro Diagnostic Medical Device
467781	1 l	Plastic bottle	In Vitro Diagnostic Medical Device
E467785	6 x 1 l	Plastic bottle	In Vitro Diagnostic Medical Device
467783	2.5 l	Plastic bottle	In Vitro Diagnostic Medical Device
E467786	4 x 2.5 l	Plastic bottle	In Vitro Diagnostic Medical Device

**Dye for cytological diagnosis and oncology. Contains ethanol and methanol**



## Papanicolaou solution OG 6

• Papanicolaou soluzione OG 6 • Papanicolaou solution OG 6 • Papanicolaou solución OG 6 • Papanicolaou Lösung OG 6

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

## Papanicolaou solution OG 6 > RS - For histology

RS

Description ..... Orange clear liquid    Density at 20°C ..... ~ 0.83    Absorbance at 480 nm ..... 0.6 ÷ 0.8  
Identification ..... Positive    Empirical test ..... Positive

Code	Size	Packaging	Notes
467792	500 ml	Plastic bottle	In Vitro Diagnostic Medical Device
E467794	6 x 500 ml	Plastic bottle	In Vitro Diagnostic Medical Device
467791	1 l	Plastic bottle	In Vitro Diagnostic Medical Device
E467795	6 x 1 l	Plastic bottle	In Vitro Diagnostic Medical Device
467793	2.5 l	Plastic bottle	In Vitro Diagnostic Medical Device
E467796	4 x 2.5 l	Plastic bottle	In Vitro Diagnostic Medical Device

**Dye for cytological diagnosis and oncology. Contains ethanol and methanol**



## Paraffin 56-58°C - Erbaplast (without DMSO)

• Paraffina 56-58°C Erbaplast (senza DMSO) • Paraffine 56-58°C Erbaplast (sans DMSO) • Paraffina 56-58°C Erbaplast (sin DMSO)  
• Paraffin 56-58°C Erbaplast (ohne DMSO)

CAS: 92045-76-6  
EEC-N: 295-458-3

## Paraffin 56-58°C - Erbaplast (without DMSO) > RS - For histology - CE - IVD

RS

Description ..... White pellets    Melting point ..... 56 ÷ 58 °C

Code	Size	Packaging	Notes
467958	4 x 2 kg	Bag	In Vitro Diagnostic Medical Device



## Paraffin oil

• Olio di vaselina • Huile de vaseline • Aceite de vaselina • Paraffinöl

Synonym:  
Mineral oil

CAS: 8012-95-1  
EEC-N: 232-455-8

## Paraffin oil > RS - For optical spectroscopy

RS

Description ..... Colourless oily liquid    Identification (I.R.) ..... Conform    Density at 20°C ..... ~ 0.880

Code	Size	Packaging	Notes
466792	100 ml	Glass bottle	

## Paraffin oil > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description ..... Colourless oily liquid    Polycyclic Aromatic Hydrocarbons ..... Conform    Ready carbonizable substances ..... Conform    Density at 25°C ..... 0.845 ÷ 0.905  
Identification (I.R.) ..... Conform Ph.Eur.    Ph.Eur.    Ph.Eur.    Viscosity at 20°C ..... 110 ÷ 230 mPa x s  
Acidity or alkalinity ..... Conform Ph.Eur.    Solid paraffins ..... Conform Ph.Eur.    Density at 20°C ..... 0.827 ÷ 0.890    Viscosity at 40°C ..... 34.5 ÷ 150 mm<sup>2</sup>/s

Code	Size	Packaging	Notes
356601	1 l	Glass bottle	
356608	5 l	Aluminium can	
356603	23 kg	Metal drum	
356607	185 kg	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



	<b>Paraffin white soft</b>	Synonym: <i>Vaseline</i>
	• Vaseline bianca • Vaseline blanche • Vaseline blanca • Weiße Vaseline	

CAS: 8009-03-8  
EEC-N: 232-373-2

### Paraffin white soft > ERBApharm - According to pharmacopoeia: BP-NF

**ERBApharm**

Description .....	White mass	Aspetto sostanza fusa.....	Conform BP	USP-NF	Melting point.....	47.0 ÷ 65.0 ° C	
Identification .....	Positive	Consistenza .....	60 ÷ 300 BP	Acidity or alkalinity.....	Conform BP	Sulphated ash.....	≤0.05 %
Reaction .....	Conform USP-NF	Ready carbonizable substances.....	Conform	Polynuclear hydrocarbon.....	≤ 300 ppm		

Code	Size	Packaging	Notes
388407	1 kg	Metallic can	
388409	5 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

### Paraffin white soft > RE - Pure

**RE**

Appearance .....Soft whitish mass Identification ..... Conform Drop melting point..... 50 - 60 °C

Code	Size	Packaging	Notes
388607	1 kg	Plastic bottle	
388609	5 kg	Plastic tank	

	<b>Paraformaldehyde</b>	Synonym: <i>Polyoxymethylene</i>
	• Paraformaldeide • Paraformaldéhyde • Paraformaldehído • Paraformaldehyd	

(CH<sub>2</sub>O)<sub>n</sub>  
CAS: 30525-89-4

#### Classification transport

ONU: 2213  
Transport Hazard class: 4.1  
Packing group III



#### Danger

H228-H302-H332-H315-H318-H317-H351-H412  
P210-P280-P304+P340-P310a-P305+P351+P338-  
P330-P362+P364

### Paraformaldehyde > RE - Pure

**RE**

Description .....	White powder	Sulphated ash .....	≤ 0.1 %	Acidity or alkalinity.....	Passes test	Insoluble in NH <sub>4</sub> OH .....	Passes test
Identification .....	Positive	Assay (oxidimetric) .....	≥ 95 %	Heavy metals (Pb).....	≤ 0.001 %		

Code	Size	Packaging	Notes
387507	1 kg	Plastic bottle	
387503	25 kg	Fibre drum	

	<b>Pararosaniline solution, decolorised</b>	
	• Pararosanilina soluzione, decolorata • Pararosaniline décolorée en solution • Pararrosanilina solución, decolorado • Pararosanilin in Lösung verfärbt	



#### Danger

H350-HA26  
P201-P202-P280-P308+P313-P405-P501a

### Pararosaniline solution, decolorised > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611062201	100 ml	Glass bottle	Ref Ph.Eur 1062201

**Storage: protected from light**

**n-Pentane 99%**

• n-Pentano 99% • n-Pentane 99% • n-Pentano 99% • n-Pentan 99%

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub>  
 Molecular Weight: 72,15  
 CAS: 109-66-0  
 EEC-N: 203-692-4

**Classification transport**

ONU: 1265  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H336-H304-H411-HEU066  
 P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

**n-Pentane 99% > RS - For GC-MS****RS**

Appearance ..... Clear colourless liquid  
 Refractive index at 20°C ..... 1.355 - 1.359  
 Water (K.F.) ..... ≤ 50 ppm  
 Residue on evaporation ..... ≤ 2 ppm  
 Colour ..... ≤ 5 APHA  
 Acidity (acetic acid) ..... ≤ 10 ppm  
 Assay (GC) ..... ≥ 99.0 %  
 GC-MS. Individual peak (n-hexadecane) ..... ≤ 2 µg/L  
 Ret. range n-undecane to n-tetracontane (scanning area 30-600amu)

Code	Size	Packaging	Notes
468172	1 l	Glass bottle	

**n-Pentane 99% > RS - ATRASOL - For traces analysis****RS**

Appearance ..... Clear colourless liquid  
 Refractive index at 20°C ..... 1.355 - 1.359  
 Water content (K.F.) ..... ≤ 50 mg/Kg  
 Colour ..... ≤ 5 Hazen  
 Assay (GC) ..... ≥ 99 %  
 Non volatile residue ..... ≤ 2 mg/Kg  
 Free acid (as CH<sub>3</sub>COOH) ..... ≤ 10 mg/Kg  
 Total sulphur (S) ..... ≤ 10 ppm  
 GC (FID) - NC Atrasol ..... Conform  
 GC-ECD. Individual peak (CCl<sub>4</sub>) ..... ≤ 1 µg/l  
 Ret. range dichloromethane to 1,2,4-trichlorobenzene  
 GC-ECD. Individual peak (Lindane) ..... ≤ 2 ng/L  
 Ret. range 1,2,4-trichlorobenzene to decachlorobiphenyle

Code	Size	Packaging	Notes
P064323016	1 l	Glass bottle	
P064323021	2.5 l	Glass bottle	

**n-Pentane 99% > RS - SPECTROSOL - For optical spectroscopy****RS**

Description ..... Clear colourless liquid  
 Identification ..... Positive  
 Colour ..... ≤ 10 APHA  
 Density at 20° C ..... 0.623 ÷ 0.629  
 Refractive index at 20°C ..... 1.3552 ÷ 1.3606  
 Boiling point ..... 35.8 ÷ 36.3 ° C  
 Acidity or alkalinity ..... ≤ 0.0002 meq/g  
 Water (K.F.) ..... ≤ 50 ppm  
 Residue on evaporation ..... ≤ 2 ppm  
 Total sulphur ..... ≤ 10 ppm  
 Aromatic compounds ..... ≤ 5 ppm  
 Assay (GLC) ..... ≥ 99 %  
 U.V. Transmittance at 210 nm ..... ≥ 45 %  
 at 220 nm ..... ≥ 89 %  
 at 230 nm ..... ≥ 95 %  
 Trasmittance from 240 nm ..... ≥ 98 %

Code	Size	Packaging	Notes
468142	1 l	Glass bottle	
468141	2.5 l	Glass bottle	

**n-Pentane 99% > RS - For enviromental analysis****RS**

Description ..... Clear liquid  
 Identification ..... Positive  
 Colour (APHA) ..... ≤ 10  
 Water ..... ≤ 50 ppm  
 Not volatile residue ..... ≤ 5 ppm  
 Free acids (CH<sub>3</sub>COOH) ..... ≤ 10 ppm  
 Total sulphur ..... ≤ 10 ppm  
 GC-ECD (Carbonio tetracloruro) ..... ≤ 1 µg/l  
 GC-ECD (Lindano) ..... ≤ 2 ng/l  
 GC-FID (Esadecano) ..... ≤ 5 µg/l  
 Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
468204	1 l	Glass bottle	

**n-Pentane 99% > RPE - For analysis - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... Clear colourless liquid  
 Identification ..... Positive  
 Colour (APHA) ..... ≤ 10  
 Density at 15° C ..... 0.629 ÷ 0.633  
 Identification (I.R.) ..... Positive  
 Aromatics ..... ≤ 0.001 %  
 Alcohol miscibility ..... Complete  
 Residue on evaporation ..... ≤ 0.001 % p/v  
 Diethyl ether miscib. .... Complete  
 Assay (GLC) ..... ≥ 99 %  
 Chloroform miscibility ..... Complete  
 Density at 20° C ..... 0.623 ÷ 0.629  
 Refractive index at 20°C ..... 1.3552 ÷ 1.3606  
 Boiling point ..... 35.8 ÷ 36.3 ° C  
 Acidity or alkalinity ..... ≤ 0.0001 meq/g  
 Water (K.F.) ..... ≤ 100 ppm  
 Total phosphorus ..... ≤ 0.5 ppm  
 Total silicon ..... ≤ 0.02 ppm  
 Total sulphur ..... ≤ 5 ppm  
 Ca ..... ≤ 0.5 ppm  
 Cu ..... ≤ 0.05 ppm  
 Fe ..... ≤ 0.2 ppm  
 K ..... ≤ 0.2 ppm  
 Mg ..... ≤ 0.1 ppm  
 Na ..... ≤ 1 ppm  
 Pb ..... ≤ 0.05 ppm  
 Zn ..... ≤ 0.1 ppm

Code	Size	Packaging	Notes
468151000	1 l	Glass bottle	

**n-Pentane 99% > RE - Pure****RE**

Description .....	Clear liquid	Density at 20°C .....	0.621 ÷ 0.631	Residue on evaporation .....	≤ 20 ppm	Assay (GLC) .....	≥ 99 %
Identification .....	Positive	Refractive index at 20°C .....	1.3529 ÷ 1.3629	Water (K.F.) .....	≤ 150 ppm		
Colour .....	≤ 10 APHA	Boiling point .....	34.75 ÷ 37.25 °C	Aromatic compounds .....	≤ 10 ppm		

Code	Size	Packaging	Notes
528994	1 l	Glass bottle	
528993	2.5 l	Glass bottle	
528995	5 l	Aluminium can	
528996	25 l	Drum	
528997	200 l	Metal drum	

**n-Pentane**

• n-Pentano • n-Pentane • n-Pentano • n-Pentan

CH<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub>  
 Molecular Weight: 72,15  
 CAS: 109-66-0  
 EEC-N: 203-692-4

**Classification transport**

ONU: 1265  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H336-H304-H411-HEU066  
 P210-P241-P280-P303+P361+P353-P304+P340-  
 P403+P233

**n-Pentane > RS - For HPLC - Isocratic Grade****RS**

Refractive index at 20°C .....	1.355 - 1.359	UV transmittance at 210 nm .....	≥ 5 %	UV transmittance at 300 nm .....	≥ 98 %	Assay (GC) .....	≥ 95 %
Water content (K.F.) .....	≤ 100 mg/Kg	UV transmittance at 230 nm .....	≥ 80 %	Aromatic compounds .....	≤ 5 mg/Kg	Total sulphur (S) .....	≤ 2 ppm
Colour .....	≤ 10 Hazen	UV transmittance at 290 nm .....	≥ 85 %	Non volatile residue .....	≤ 5 mg/Kg	Free acid (as CH <sub>3</sub> COOH) .....	≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0643716	1 l	Glass bottle	
P0643721	2.5 l	Glass bottle	

**n-Pentane > RS - For GC-MS****RS**

Appearance .....	Clear colourless liquid	Water (K.F.) .....	≤ 50 ppm	Assay (GC) .....	≥ 96.5 %	Ret.range n-undecane to n-tetracontane	(scanning area 30-600amu)
Refractive index at 20°C .....	1.355 - 1.359	Residue on evaporation .....	≤ 2 ppm	GC-MS.Individual peak (n-hexadecane) .....	≤ 2 µg/L		
Density d20/4 .....	0.621 - 0.631	Colour .....	≤ 5 APHA				

Code	Size	Packaging	Notes
468182	1 l	Glass bottle	

**n-Pentane > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination****RS**

Appearance .....	Clear colourless liquid	Non volatile residue .....	≤ 2 mg/Kg	GC-FID.Hydrocarbon oil index .....	≤ 0.05 mg/l	Ret.range 1,2,4-trichlorobenzene	to decachlorobiphenyle
Refractive index at 20°C .....	1.355 - 1.359	Acidity (acetic acid) .....	≤ 10 ppm	Retention time n-decane - n-tetracontane			
Water content (K.F.) .....	≤ 50 mg/Kg	Assay (GC) .....	≥ 96.5 %	GC-FID.Individual peak (C10-C40) .....	≤ 2 µg/l		
Colour .....	≤ 5 Hazen	Density d20/4 .....	0.621 - 0.631	GC-ECD.Individual peak (Lindane) .....	≤ 2 ng/L		

Code	Size	Packaging	Notes
P0643216	1 l	Glass bottle	
P0643221	2.5 l	Glass bottle	

According to NF-EN-ISO9377-2 for hydrocarbon index determination

**n-Pentane > RS - PESTIPUR - For pesticide analysis****RS**

Description .....	Clear liquid	Water .....	≤ 50 ppm	Total sulphur .....	≤ 2 ppm	Assay (GLC) .....	≥ 95 %
Identification .....	Positive	Acidity (acetic acid) .....	≤ 10 ppm	GC-ECD (Lindano) .....	≤ 3 ng/l		
Colour .....	≤ 10 hazen	Not volatile residue .....	≤ 5 ppm	GC-NPD (Ethylparation) .....	≤ 3 ng/l		

Code	Size	Packaging	Notes
468161	1 l	Glass bottle	
468162	2.5 l	Glass bottle	

**n-Pentane > RS - Anhydrous - For analysis**

RS

Refractive index at 20°C..... 1.355 - 1.359	Colour ..... ≤ 10 Hazen	n-hexane..... ≤ 0.4 %	Total sulphur (S) ..... ≤ 2 ppm
Water content (K.F.)..... ≤ 50 mg/Kg	Assay (GC)..... ≥ 95 %	Cyclopentane..... ≤ 1 %	Free acid (as CH <sub>3</sub> COOH)..... ≤ 10 mg/Kg
Non volatile residue..... ≤ 10 mg/Kg	Aromatic compounds..... ≤ 20 mg/Kg	2,2-dimethylbutane..... ≤ 1 %	

Code	Size	Packaging	Notes
P0641016	1 l	Glass bottle	

**n-Pentane > RPE - For analysis**

RPE

Refractive index at 20°C..... 1.355 - 1.359	Colour ..... ≤ 10 Hazen	n-hexane ..... ≤ 0.4 %	Total sulphur (S) ..... ≤ 2 ppm
Water content (K.F.)..... ≤ 150 mg/Kg	Assay (GC)..... ≥ 95 %	Cyclopentane ..... ≤ 1 %	Free acid (as CH <sub>3</sub> COOH)..... ≤ 10 mg/Kg
Non volatile residue..... ≤ 10 mg/Kg	Aromatic compounds..... ≤ 20 mg/Kg	2,2-dimethylbutane..... ≤ 1 %	

Code	Size	Packaging	Notes
468121	1 l	Glass bottle	
468122	2.5 l	Glass bottle	
468123	200 l	Metal drum	

**n-Pentane > RE - Pure**

RE

Description ..... Clear colourless liquid	Refractive index at 20°C..... 1.3529 ÷ 1.3629	Assay (GLC) ..... ≥ 95 %
Identification ..... Positive	Water (K.F.)..... ≤ 200 ppm	Colour ..... ≤ 10 APHA
Density at 20° C ..... 0.621 ÷ 0.631	Residue on evaporation ..... ≤ 25 ppm	n-Hexane..... ≤ 0.4 %

Code	Size	Packaging	Notes
356951	1 l	Glass bottle	
356954	5 l	Aluminium can	
356952	16 kg	Drum	
356953	200 l	Metal drum	

**2,4-Pentanedione ▶ Acetylacetone****1-Pentanesulphonic acid sodium salt**

- Acido 1-pentansolfonico sale sodico • Acide 1-pentanesulfonique sel sodique
- Acido 1-pentanosulfónico sal sódica • 1-Pentansulfonsäure-Natriumsalz

Synonym:

*Sodium pentanesulfonate*

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>SO<sub>3</sub>Na  
 Molecular Weight: 174,19  
 CAS: 22767-49-3  
 EEC-N: 245-208-4

**1-Pentanesulphonic acid sodium salt > RS - For ion pair chromatography**

RS

Description ..... White crystalline powder	Absorbance (0,25M)	At 220 nm ..... ≤ 0.04 AU	At 250 nm ..... ≤ 0.01 AU
Water (K.F.)..... ≤ 2 %	At 200 nm ..... ≤ 0.10 AU	At 230 nm ..... ≤ 0.03 AU	At 260 nm ..... ≤ 0.01 AU
Assay ..... ≥ 98 %	At 210 nm ..... ≤ 0.05 AU	At 240 nm ..... ≤ 0.01 AU	

Code	Size	Packaging	Notes
405841	25 g	Glass bottle	
405842	100 g	Plastic bottle	

**1-Pentanesulphonic acid sodium salt > RPE - For analysis**

RPE

Description ..... White powder	Identification ..... Positive	Assay ..... ≥ 95 %
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Code	Size	Packaging	Notes
409064	25 g	Glass bottle	



## 1-Pentanesulphonic acid sodium salt monohydrate

- Acido 1-pentansolfonico sale sodico monoidrato • Acide 1-pentanesulfonique sel sodique monohydrate
- Acido 1-pentanosulfónico sal sódica monohidrat • 1-Pentansulfonsäure-Natriumsalz-Monohydrat

Synonym:  
Sodium 1-pentanesulfonate monohydrate

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>SO<sub>3</sub>Na.H<sub>2</sub>O  
Molecular Weight: 192,19  
CAS: 207605-40-1

### 1-Pentanesulphonic acid sodium salt monohydrate > RS - For ion pair chromatography

RS

Description .....	White crystalline powder	Absorbance (0,25M)	At 220 nm .....	≤ 0.03 AU	At 250 nm .....	≤ 0.01 AU
Loss on drying .....	7.0 - 9.0 %	At 200 nm .....	≤ 0.1 AU	At 230 nm .....	≤ 0.02 AU	
Assay .....	≥ 99.0 %	At 210 nm .....	≤ 0.05 AU	At 240 nm .....	≤ 0.01 AU	

Code	Size	Packaging	Notes
405891	25 g	Glass bottle	
405892	100 g	Plastic bottle	

## Pentanol-1 ► n-Amyl alcohol



## Pepsin HCl

- Pepsina HCl • Pepsine • Pepsina HCl • Pepsin HCl



### Danger

H290-H314-HEU208  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Pepsin HCl > RPE - For analysis

RPE

Code	Size	Packaging	Notes
468245	250 ml	Bottle	

#### Cleaning solution proteins



## Perchloric acid 65-71%

- Acido perclorico 65-71% • Acide perchlorique 65-71% • Acido perclórico 65-71% • Perchlorsäure 65-71%

HClO<sub>4</sub>  
Molecular Weight: 100,47  
CAS: 7601-90-3

### Classification transport

ONU: 1873  
Transport Hazard class: 5.1  
Packing group I



### Danger

H271-H302-H314  
P210-P280-P283-P301+P330+P331-  
P303+P361+P353-P304+P340-P310a-  
P305+P351+P338

### Perchloric acid 65-71% > RS - Superpure - For trace analysis at ppb level

RS

Description .....	Clear liquid	Dy .....	≤ 0.5 ppb	Mo .....	≤ 0.5 ppb	Tb .....	≤ 0.5 ppb
Identification .....	Positive	Er .....	≤ 0.5 ppb	Nd .....	≤ 0.5 ppb	Tl .....	≤ 0.5 ppb
Colour .....	≤ 10 APHA	Eu .....	≤ 0.5 ppb	Ni .....	≤ 1 ppb	Th .....	≤ 1 ppb
Al .....	≤ 1 ppb	Gd .....	≤ 0.5 ppb	Pd .....	≤ 0.5 ppb	Tm .....	≤ 0.5 ppb
Sb .....	≤ 0.5 ppb	Ga .....	≤ 0.5 ppb	Pt .....	≤ 0.5 ppb	Sn .....	≤ 1 ppb
As .....	≤ 0.5 ppb	Au .....	≤ 0.5 ppb	K .....	≤ 1 ppb	Ti .....	≤ 1 ppb
Ba .....	≤ 1 ppb	Hg .....	≤ 0.5 ppb	Pr .....	≤ 0.5 ppb	U .....	≤ 0.5 ppb
Be .....	≤ 0.5 ppb	In .....	≤ 0.5 ppb	Rh .....	≤ 0.5 ppb	V .....	≤ 0.5 ppb
Bi .....	≤ 0.5 ppb	Fe .....	≤ 1 ppb	Rb .....	≤ 0.5 ppb	Yb .....	≤ 0.5 ppb
Cd .....	≤ 1 ppb	La .....	≤ 0.5 ppb	Sm .....	≤ 0.5 ppb	Y .....	≤ 0.5 ppb
Ca .....	≤ 1 ppb	Pb .....	≤ 1 ppb	Sc .....	≤ 0.5 ppb	Zn .....	≤ 1 ppb
Ce .....	≤ 0.5 ppb	Li .....	≤ 0.5 ppb	Ag .....	≤ 1 ppb	Zr .....	≤ 0.5 ppb
Cs .....	≤ 0.5 ppb	Lu .....	≤ 0.5 ppb	Na .....	≤ 1 ppb	Assay (acidimetric) .....	65 ÷ 71 %
Co .....	≤ 0.5 ppb	Mg .....	≤ 1 ppb	Sr .....	≤ 0.5 ppb		
Cu .....	≤ 0.5 ppb	Mn .....	≤ 1 ppb	Te .....	≤ 0.5 ppb		

Code	Size	Packaging	Notes
409193	1 l	Plastic bottle	



## Perchloric acid 65%

• Acido perclorico 65% • Acide perchlorique 65% • Acido perclórico 65% • Perchlorsäure 65%

HClO<sub>4</sub>  
Molecular Weight: 100,47  
CAS: 7601-90-3

**Classification transport**  
ONU: 1873  
Transport Hazard class: 5.1  
Packing group I



**Danger**  
H271-H302-H314  
P210-P280-P283-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Perchloric acid 65% > RS - For environmental analysis - ISO

RS

Description ..... Clear liquid	Residue on ignition ..... ≤30 ppm	Cr ..... ≤0.2 ppm	Pb ..... ≤0.05 ppm
Colour (APHA) ..... ≤10	Sulphate ..... ≤4 ppm	Cu ..... ≤0.1 ppm	Sr ..... ≤0.02 ppm
Identification ..... Positive	Ag ..... ≤0.1 ppm	Fe ..... ≤0.5 ppm	Ti ..... ≤0.1 ppm
Density at 20° C ..... 1.587 ÷ 1.607	Al ..... ≤0.05 ppm	Hg ..... ≤0.02 ppm	Tl ..... ≤0.05 ppm
Total nitrogen ..... ≤10 ppm	As ..... ≤0.05 ppm	K ..... ≤0.1 ppm	V ..... ≤0.05 ppm
Chlorate ..... ≤10 ppm	Ba ..... ≤0.02 ppm	Li ..... ≤0.02 ppm	Zn ..... ≤0.1 ppm
Free chlorine ..... ≤0.5 ppm	Bi ..... ≤0.1 ppm	Mg ..... ≤0.5 ppm	Assay (acidimetric) ..... 64 ÷ 66 %
Chloride ..... ≤1 ppm	Ca ..... ≤0.5 ppm	Mn ..... ≤0.02 ppm	
Fluoride ..... ≤1 ppm	Cd ..... ≤0.005 ppm	Mo ..... ≤0.05 ppm	
Phosphate-silicate(SiO <sub>2</sub> ) ..... ≤1 ppm	Co ..... ≤0.05 ppm	Ni ..... ≤0.1 ppm	

Code	Size	Packaging	Notes
409121	1 l	Glass bottle	

Low content in Hg

### Perchloric acid 65% > RPE - For analysis - ISO

RPE

Description ..... Clear liquid	Heavy metals (Pb) ..... ≤1 ppm	Cd ..... ≤0.05 ppm	Ni ..... ≤0.1 ppm
Colour (APHA) ..... ≤10	Residue on ignition ..... ≤30 ppm	Co ..... ≤0.05 ppm	Pb ..... ≤0.05 ppm
Identification ..... Positive	Sulphate ..... ≤5 ppm	Cu ..... ≤0.1 ppm	Sr ..... ≤0.02 ppm
Density at 20° C ..... 1.587 ÷ 1.607	Ag ..... ≤0.1 ppm	Fe ..... ≤0.5 ppm	Ti ..... ≤0.1 ppm
Total nitrogen ..... ≤10 ppm	Al ..... ≤0.05 ppm	K ..... ≤0.1 ppm	Tl ..... ≤0.05 ppm
Chlorate ..... ≤10 ppm	As ..... ≤0.05 ppm	Li ..... ≤0.02 ppm	V ..... ≤0.05 ppm
Free chlorine ..... ≤0.5 ppm	Ba ..... ≤0.02 ppm	Mg ..... ≤0.5 ppm	Zn ..... ≤0.1 ppm
Chloride ..... ≤1 ppm	Bi ..... ≤0.1 ppm	Mn ..... ≤0.02 ppm	Assay (acidimetric) ..... 64 ÷ 66 %
Phosphate-silicate(SiO <sub>2</sub> ) ..... ≤5 ppm	Ca ..... ≤0.5 ppm	Mo ..... ≤0.05 ppm	

Code	Size	Packaging	Notes
409111	1 l	Glass bottle	
409113	35 kg	Drum	

### Perchloric acid 65% > RE - Pure

RE

Description ..... Clear colourless liquid	Total nitrogen ..... ≤50 ppm	Heavy metals (Pb) ..... ≤1 ppm	Fe ..... ≤5 ppm
Identification ..... Positive	Chloride ..... ≤10 ppm	Residue on ignition ..... ≤50 ppm	Assay (acidimetric) ..... 64 ÷ 66 %
Density at 20° C ..... 1.587 ÷ 1.607	Phosphate-silicate(SiO <sub>2</sub> ) ..... ≤50 ppm	Sulphate ..... ≤50 ppm	

Code	Size	Packaging	Notes
306091	1 l	Glass bottle	



## Perchloric acid 0.1 mol/l (0.1N)

• Acido perclorico 0.1 mol/l (0.1N) • Acide perchlorique 0.1 mol/l (0.1N) • Acido perclórico 0.1 mol/l (0.1N) • Perchlorsäure 0.1 mol/l (0.1N)

**Classification transport**  
ONU: 2789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H226-H314  
P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Perchloric acid 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613003900	1 l	Glass bottle	Ref Ph.Eur 3003900





## Perchloric acid 0.1 mol/l (0.1N) in acetic acid

- Acido perclorico 0.1 mol/l (0.1N) in acido acetico • Acide perchlorique 0.1 mol/l (0.1N) dans l'acide acétique
- Acido perclórico 0.1 mol/l (0.1N) en acido acético • Perchlorsäure 0.1 mol/l (0.1N) essigsäure

### Classification transport

ONU: 2789  
 Transport Hazard class: 8  
 Packing group II



### Danger

H226-H314  
 P210-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## Perchloric acid 0.1 mol/l (0.1N) in acetic acid > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0998 - 0.1002 N NIST 84.....

Code	Size	Packaging	Notes
409136	500 ml	Glass bottle	Certified with NIST traceability
409131	1 l	Glass bottle	Certified with NIST traceability

**10,046 g of HClO<sub>4</sub>. Volumetric solution ready-to-use. Content is guaranteed for standardized volumes at 20 °C**



## Perchloric acid 0.05 mol/l (0.05N)

- Acido perclorico 0.05 mol/l (0.05N) • Acide perchlorique 0.05 mol/l (0.05N) • Acido perclórico 0.05 mol/l (0.05N) • Perchlorsäure 0.05 mol/l (0.05N)

### Classification transport

Transport Hazard class: 8  
 Packing group II



## Perchloric acid 0.05 mol/l (0.05N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613004000	1 l	Glass bottle	Ref Ph.Eur 3004000



## Perchloric acid 0.01 mol/l (0.01N)

- Acido perclorico 0.01 mol/l (0.01N) • Acide perchlorique 0.01 mol/l (0.01N) • Acido perclórico 0.01 mol/l (0.01N) • Perchlorsäure 0.01 mol/l (0.01N)

### Classification transport

ONU: 2789  
 Transport Hazard class: LQ



### Danger

H226-H314  
 P210-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## Perchloric acid 0.01 mol/l (0.01N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E409141	500 ml	Glass bottle	

**1.0046 g of HClO<sub>4</sub>. Volumetric solution ready-to-use. Solution in acetic anhydride**



## Perchloric acid solution

- Acido perclorico soluzione • Acide perchlorique solution • Acido perclórico solución • Perchlorsäurelösung

## Perchloric acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611062901	100 ml	Plastic bottle	Ref Ph.Eur 1062901

**Periodic acid**

• Acido periódico • Acide périodique • Acido periódico • Periodsäure

HIO<sub>4</sub>·2H<sub>2</sub>O

Molecular Weight: 227,94

CAS: 10450-60-9

EEC-N: 233-937-0

**Classification transport**

ONU: 3084

Transport Hazard class: 8

Packing group II

**Danger**

H272-H314

P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Periodic acid > RPE - For analysis****RPE**

Description ..... Colorless or White crystals    Iodide ..... ≤ 0.005 %    Chloride ..... ≤ 0.02 %  
 Assay ..... ≥ 99 %    Water insolubles ..... ≤ 0.02 %    Residue on ignition (SO<sub>4</sub>) ..... ≤ 0.1 %

Code	Size	Packaging	Notes
409182	25 g	Glass bottle	
409184	100 g	Glass bottle	
409185	250 g	Glass bottle	

**Petroleum**

• Petrolio • Pétrole • Petróleo • Petroleum

CAS: 64771-72-8

EEC-N: 929-018-5

**Danger**

H304-HEU066

P301+P310a-P331-P405-P501a

**Petroleum > RE - Pure****RE**

Description ..... Clear colourless liquid    Density at 15°C ..... 0.746 ÷ 0.752    Residue on ignition ..... ≤ 100 ppm  
 Identification (I.R.) ..... Positive    Boiling point ..... 185 ÷ 245 °C

Code	Size	Packaging	Notes
357151	1 l	Glass bottle	
357155	21 kg	Metal drum	

**Petroleum benzin E**

• Benzina E • Essence E • Benzina de Petroleo E • Benzin E

CAS: 64742-49-0

**Classification transport**

ONU: 3295

Transport Hazard class: 3

Packing group II

**Danger**

H225-H315-H336-H304-H411

P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

**Petroleum benzin E > RE - Pure****RE**

Density d15/4 ..... 0.720 - 0.745    Aromatic compounds ..... ≤ 100 mg/Kg    Total sulphur (S) ..... ≤ 5 ppm  
 Colour ..... ≤ 10 Hazen    Boiling point ..... 100 - 140 °C

Code	Size	Packaging	Notes
P0370048	25 l	Metal drum	



## Petroleum ether 100 - 140°C

• Etere di petrolio (Ligroina) 100 - 140°C • Ether de pétrole 100 - 140°C • Eter de petróleo 100 - 140°C • Petrolether 100 - 140°C

CAS: 64742-49-0  
EEC-N: 265-151-9

**Classification transport**  
ONU: 3295  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H315-H336-H304-H411-HEU066  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### Petroleum ether 100 - 140°C > RE - Pure

RE

Description ..... Clear colourless liquid      Residue on evaporation ..... ≤ 50 ppm      Aromatics (Thiophene) ..... ≤ 0.06 %  
Water (K.F.) ..... ≤ 200 ppm      Density at 15° C ..... 0.725 ÷ 0.740      Boiling point min. .... ≥100 °C  
Identification ..... Positive      Total sulphur ..... ≤ 10 ppm      Boiling point max. .... ≤140 °C

Code	Size	Packaging	Notes
348913	1 l	Glass bottle	
348912	2.5 l	Glass bottle	
508230	5 l	Plastic tank	
348914	20 kg	Metal drum	
508232	25 l	Metal drum	



## Petroleum ether 80 - 120°C

• Etere di petrolio (Ligroina) 80 - 120°C • Ether de pétrole 80 - 120°C • Eter de petróleo 80 - 120°C • Petrolether 80 - 120°C

CAS: 64742-49-0

**Classification transport**  
ONU: 1268  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H315-H336-H411  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### Petroleum ether 80 - 120°C > RE - Pure

RE

Description ..... Clear colourless liquid      Density at 15° C ..... ≥0.723      Boiling point min. .... ≥80 °C  
Identification ..... Positive      Residue on evaporation ..... ≤100 ppm      Boiling point max. .... ≤120 °C

Code	Size	Packaging	Notes
348901	1 l	Glass bottle	
348905	2.5 l	Glass bottle	



## Petroleum ether 80 - 100°C

• Etere di petrolio (Benzina) 80 - 100°C • Ether de pétrole 80 - 100°C • Eter de petróleo 80 - 100°C • Petrolether 80 - 100°C

CAS: 64742-49-0

**Classification transport**  
ONU: 1268  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H315-H336-H304-H411  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### Petroleum ether 80 - 100°C > RPE - For analysis

RPE

Description ..... Clear colourless liquid      CCl4 miscibility ..... Complete      Density at 15° C ..... ~ 0.709      Subst. reducing KMnO4 ..... ≤20 ppm (5m)  
Colour (APHA) ..... ≤10      Anhyd.Ethyl alc.miscib. .... Complete      Water (K.F.) ..... ≤0.01 %      Total sulphur ..... ≤50 ppm  
Identification ..... Positive      Benzene miscibility ..... Complete      Residue on evaporation ..... ≤10 ppm  
Boiling point ..... 80 ÷ 100 °C      Diethyl ether miscib. .... Complete      Acidity (acetic acid) ..... ≤5 ppm  
Carb.sulf. miscibility ..... Complete      Ready carbonizable substances ..... Conform      Aromatics ..... ≤100 ppm

Code	Size	Packaging	Notes
427031	1 l	Glass bottle	
427036	18 kg	Metal drum	

## Petroleum ether 80 - 100°C > RE - Pure

RE

Description ..... Clear colourless liquid Density at 15° C ..... ~ 0.708 Boiling point min. ....>80 °C  
 Identification ..... Positive Residue on evaporation ..... ≤100 ppm Boiling point max. ....≤100 °C

Code	Size	Packaging	Notes
323501	1 l	Glass bottle	
323503	2.5 l	Glass bottle	
323502	19 kg	Metal drum	



## Petroleum ether 75 - 120°C

• Etere di petrolio (Ligroina) 75 - 120°C • Ether de pétrole 75 - 120°C • Eter de petróleo 75 - 120°C • Petrolether 75 - 120°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H315-H336-H304-H411  
 P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

## Petroleum ether 75 - 120°C > RPE - For analysis

RPE

Description ..... Clear colourless liquid Boiling point min. .... ≥75 °C Water (K.F.) ..... ≤50 ppm Subst. reducing KMnO4 ..... ≤20 ppm (5m)  
 Identification ..... Positive Boiling point max. .... ≤120 °C Residue on evaporation ..... ≤10 ppm Total sulphur ..... ≤50 ppm  
 Diethyl ether miscib. .... Complete Ready carbonizable substances ..... Conform Acidity (acetic acid) ..... ≤0.7 ppm  
 Misc. with Abs. Ethanol ..... Complete Density at 15° C ..... ≥0.715 Alcalinity (NH3) ..... ≤0.2 ppm

Code	Size	Packaging	Notes
458001	1 l	Glass bottle	
458003	2.5 l	Glass bottle	



## Petroleum ether 60 - 80°C

• Etere di petrolio (Benzina) 60 - 80°C • Ether de pétrole 60 - 80°C • Eter de petróleo 60 - 80°C • Petrolether 60 - 80°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H315-H361f-H336-H373-H304-H411  
 P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

## Petroleum ether 60 - 80°C > RPE - For analysis

RPE

Description ..... Clear liquid Boiling point ..... 60 ÷ 80 °C Water (K.F.) ..... ≤100 ppm Subst. reducing KMnO4 ..... ≤20 ppm (5m)  
 Colour (APHA) ..... ≤10 Ready carbonizable substances ..... Conform Residue on evaporation ..... ≤10 ppm Total sulphur ..... ≤50 ppm  
 Identification ..... Positive Density at 20° C ..... 0.660 ÷ 0.690 Acidity (acetic acid) ..... ≤5 ppm

Code	Size	Packaging	Notes
427001	1 l	Glass bottle	
427003	2.5 l	Glass bottle	
427007	18 kg	Metal drum	



## Petroleum ether 55 - 85°C

• Etere di petrolio (Benzina) 55 - 85°C • Ether de pétrole 55 - 85°C • Eter de petróleo 55 - 85°C • Petrolether 55 - 85°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H315-H361f-H336-H373-H411  
 P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

## Petroleum ether 55 - 85°C > RE - Pure

RE

Description ..... Clear colourless liquid Density at 20° C ..... 0.660 ÷ 0.690 Boiling point min. .... ≥55 °C  
 Identification ..... Positive Residue on evaporation ..... ≤100 ppm Boiling point max. .... ≤85 °C

Code	Size	Packaging	Notes
323401	1 l	Glass bottle	
323403	2.5 l	Glass bottle	
323402	18 kg	Metal drum	



## Petroleum ether 40 - 70°C

• Etere di petrolio 40 - 70°C • Ether de pétrole 40 - 70°C • Eter de petróleo 40 - 70°C • Petrolether 40 - 70°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H411  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

## Petroleum ether 40 - 70°C > RPE - For analysis

RPE

Description	Clear liquid	Residue on evaporation	≤20 ppm	Total sulphur	≤50 ppm	Fe	≤0.1 ppm
Colour (APHA)	≤10	Water (K.F.)	≤100 ppm	Al	≤0.5 ppm	Mg	≤0.1 ppm
Identification	Positive	Boiling point min.	≥40 °C	Ba	≤0.1 ppm	Mn	≤0.02 ppm
Alcohol miscibility	Complete	Boiling point max.	≤70 °C	Ca	≤0.5 ppm	Ni	≤0.02 ppm
Diethyl ether miscib.	Complete	Acidity (acetic acid)	≤0.7 ppm	Cd	≤0.05 ppm	Pb	≤0.1 ppm
Fat oils	Conform	Alcalinity (NH <sub>3</sub> )	≤0.2 ppm	Co	≤0.02 ppm	Sn	≤0.1 ppm
Ready carbonizable substances	Conform	Benzene	≤100 ppm	Cr	≤0.02 ppm	Zn	≤0.1 ppm
Density at 15° C	0.645 ÷ 0.670	Subst. reducing KMnO <sub>4</sub>	≤20 ppm (5m)	Cu	≤0.02 ppm		

Code	Size	Packaging	Notes
447821	1 l	Glass bottle	
447824	5 l	Aluminium can	
447822	19 kg	Aluminium can	

## Petroleum ether 40 - 70°C > RE - Pure

RE

Description	Clear liquid	Density at 15° C	0.645 ÷ 0.670	Benzene	≤200 ppm
Colour (APHA)	≤10	Residue on evaporation	≤100 ppm	Boiling point min.	≥40 °C
Identification	Positive	Water (K.F.)	≤100 ppm	Boiling point max.	≤70 °C

Code	Size	Packaging	Notes
341024	1 l	Glass bottle	
341022	19 kg	Aluminium can	



## Petroleum ether 40 - 65°C

• Etere di petrolio 40 - 65°C • Ether de pétrole 40 - 65°C • Eter de petróleo 40 - 65°C • Petrolether 40 - 65°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H411  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

## Petroleum ether 40 - 65°C > RS - PESTIPUR - For pesticide analysis

RS

Appearance	Clear colourless liquid	Water content (K.F.)	≤ 100 mg/Kg	Ret.range 1,2,4-trichlorobenzene to decachlorobiphenyle	Retention time Atrazin to Coumaphos
Boiling point	40 - 65 °C	Non volatile residue	≤ 2 mg/Kg	GC-NPD. Individual peak (Ethylparathion) ≤ 3 ng/l	
Density d15/4	0.640 - 0.655	GC chromatogram	Conform		
Colour	≤ 10 Hazen	GC-ECD. Individual peak (Lindane)	≤ 3 ng/L		

Code	Size	Packaging	Notes
447851	1 l	Glass bottle	
447852	2.5 l	Glass bottle	

### For chlorinated compounds analysis

## Petroleum ether 40 - 65°C > RPE - For analysis

RPE

Description	Clear colourless liquid	Refractive index at 20°C	1.366 ÷ 1.376	Water (K.F.)	≤ 100 ppm	Aromatic compounds	≤ 100 ppm
Colour	≤ 10 APHA	Boiling point	40 ÷ 65 °C	Assay (CPG)	Conform		
Density at 15°C	0.645 ÷ 0.660	Residue on evaporation	≤ 10 ppm	n-Hexane	≤ 2 %		

Code	Size	Packaging	Notes
447811	1 l	Glass bottle	
447812	2.5 l	Glass bottle	
447813	5 l	Plastic tank	
447814	10 l	Metal tank	
447815	25 l	Metal drum	
447816	200 l	Metal drum	



## Petroleum ether 40 - 60°C

• Etere di petrolio 40 - 60°C • Ether de pétrole 40 - 60°C • Eter de petróleo 40 - 60°C • Petrolether 40 - 60°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H411  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

## Petroleum ether 40 - 60°C > RPE - For analysis

RPE

Description	Clear liquid	Ready carbonizable substances	Conform	Total sulphur	≤50 ppm	Fe	≤0.1 ppm
Colour (APHA)	≤10	Density at 15° C	0.647 ÷ 0.654	Al	≤0.5 ppm	Mg	≤0.1 ppm
Identification	Positive	Residue on evaporation	≤10 ppm	Ba	≤0.1 ppm	Mn	≤0.02 ppm
Alcohol miscibility	Complete	Water (K.F.)	≤100 ppm	Ca	≤0.5 ppm	Ni	≤0.02 ppm
Diethyl ether miscib.	Complete	Acidity (acetic acid)	≤0.7 ppm	Cd	≤0.05 ppm	Pb	≤0.1 ppm
Boiling point min.	≥40 °C	Alcalinity (NH3)	≤0.2 ppm	Co	≤0.02 ppm	Sn	≤0.1 ppm
Boiling point max.	≤60 °C	Benzene	≤100 ppm	Cr	≤0.02 ppm	Zn	≤0.1 ppm
Fat oils	Conform	Subst. reducing KMnO4	≤20 ppm (5m)	Cu	≤0.02 ppm	Bromine rating	≤ 1

Code	Size	Packaging	Notes
447833	1 l	Glass bottle	
447831	2.5 l	Glass bottle	
447832	5 l	Aluminium can	
447836	5 l	Plastic tank	
447834	19 kg	Aluminium can	

## Petroleum ether 40 - 60°C > RE - Pure

RE

Description	Clear liquid	Density at 20°C	0.643 ÷ 0.673	Water (K.F.)	≤ 200 ppm
Colour	≤ 10 APHA	Refractive index at 20°C	1.368 ÷ 1.378	Aromatics	≤100 ppm
Identification	Positive	Residue on evaporation	≤ 20 ppm	Distillation intervalle	40 ÷ 60 °C

Code	Size	Packaging	Notes
528283	5 l	Plastic tank	



## Petroleum ether 35 - 60°C

• Etere di petrolio 35 - 60°C • Ether de pétrole 35 - 60°C • Eter de petróleo 35 - 60°C • Petrolether 35 - 60°C

CAS: 109-66-0

### Classification transport

ONU: 1265  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H336-H304-H411-HEU066  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

## Petroleum ether 35 - 60°C > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination

RS

Appearance	Clear colourless liquid	Colour	≤ 5 Hazen	Ret.range 1,2,4-trichlorobenzene	Retention time n-decane - n-tetracontane
Refractive index at 20°C	1.355 - 1.359	Non volatile residue	≤ 2 mg/Kg	to decachlorobiphenyle	GC-FID.Individual peak (C10-C40) ..≤ 5 µg/l
Water content (K.F.)	≤ 50 mg/Kg	GC-ECD.Individual peak (Lindane)	≤ 3 ng/L	GC-FID.Hydrocarbon oil index	≤ 0.05 mg/l

Code	Size	Packaging	Notes
P0883216	1 l	Glass bottle	
P0883221	2.5 l	Glass bottle	

**According to NF-EN-ISO9377-2 for hydrocarbon index determination. Contains n-Pentane, iso-Pentane, 1-pentene, 2,2-Dimethylbutane and cyclopentane**

## Petroleum ether 35 - 60°C > RS - PESTIPUR - For pesticide analysis

RS

Clear, colourless liq. appearance	Conform	Refractive index at 20°C	1.355 - 1.359	Retention time trichlorobenzene to mirex	GC-NPD.Individual peak (Ethylparathion) ≤ 3 ng/l
Identification	Conform	Water content (K.F.)	≤ 100 mg/Kg	Non volatile residue	≤ 2 mg/Kg
Colour	≤ 10 Apha	GC-ECD.Individual peak (Lindane)	≤ 3 ng/l	Total sulphur (S)	≤ 10 ppm

Code	Size	Packaging	Notes
447862	1 l	Glass bottle	
447861	2.5 l	Glass bottle	

**For chlorinated and nitrogenous compounds analysis. Contains n-Pentane, iso-Pentane, 1-pentene, 2,2-Dimethylbutane and cyclopentane**



## Petroleum ether 35 - 60°C > RPE - For analysis

**RPE**

Description .....	Clear liquid	Density at 20°C .....	0.643 ÷ 0.673	Water (K.F.) .....	≤ 150 ppm	Bromine rating .....	≤ 1
Colour .....	≤ 10 APHA	Refractive index at 20°C .....	1.368 ÷ 1.378	Aromatics .....	≤ 20 ppm	Distillation intervalle .....	35 ÷ 60 °C
Identification .....	Positive	Residue on evaporation .....	≤ 10 ppm	Total sulphur .....	≤ 10 ppm	Assay (CPG) .....	Conform

Code	Size	Packaging	Notes
528070	1 l	Glass bottle	
528071	2.5 l	Glass bottle	
528280	5 l	Plastic tank	
528281	25 l	Metal drum	
528282	200 l	Metal drum	



## Petroleum ether 30 - 50°C

• Etere di petrolio 30 - 50°C • Ether de pétrole 30 - 50°C • Eter de petróleo 30 - 50°C • Petroether 30 - 50°C

CAS: 109-66-0

### Classification transport

ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H336-H304-H411  
 P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

## Petroleum ether 30 - 50°C > RPE - For analysis

**RPE**

Description .....	Clear liquid	Residue on evaporation .....	≤10 ppm	Subst. reducing KMnO4 .....	≤20 ppm (5m)	Cu .....	≤0.02 ppm
Colour (APHA) .....	≤10	Water (K.F.) .....	≤100 ppm	Total sulphur .....	≤50 ppm	Fe .....	≤0.1 ppm
Identification .....	Positive	Boiling point min. ....	≥30 °C	Al .....	≤0.5 ppm	Mg .....	≤0.1 ppm
Alcohol miscibility .....	Complete	Boiling point max. ....	≤50 °C	Ba .....	≤0.1 ppm	Mn .....	≤0.02 ppm
Diethyl ether miscib. ....	Complete	Acidity (acetic acid) .....	≤0.7 ppm	Ca .....	≤0.5 ppm	Ni .....	≤0.02 ppm
Fat oils .....	Conform	Alcalinity (NH3) .....	≤0.2 ppm	Cd .....	≤0.05 ppm	Pb .....	≤0.1 ppm
Ready carbonizable substances .....	Conform	Benzene .....	≤100 ppm	Co .....	≤0.02 ppm	Sn .....	≤0.1 ppm
Density at 15° C .....	≥0.633	Unsaturated hydrocarbon .....	≤0.4 %	Cr .....	≤0.02 ppm	Zn .....	≤0.1 ppm

Code	Size	Packaging	Notes
447801	1 l	Glass bottle	
447804	5 l	Aluminium can	
447802	18 kg	Aluminium can	

## Petroleum ether 30 - 50°C > RE - Pure

**RE**

Description .....	Clear colourless liquid	Density at 15° C .....	≥0.633	Boiling point min. ....	≥30 °C
Identification .....	Positive	Residue on evaporation .....	≤100 ppm	Boiling point max. ....	≤50 °C

Code	Size	Packaging	Notes
341034	1 l	Glass bottle	
341032	18 kg	Aluminium can	



## Petroleum ether 30 - 40°C

• Etere di petrolio 30 - 40°C • Ether de pétrole 30 - 40°C • Eter de petróleo 30 - 40°C • Petrolether 30 - 40°C

CAS: 109-66-0

### Classification transport

ONU: 1265  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H336-H304-H411-HEU066  
P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

## Petroleum ether 30 - 40°C > RPE - For analysis

### RPE

Description .....	Clear liquid	Ready carbonizable substances.....	Conform	Subst. reducing KMnO4.....	≤20 ppm (5m)	Cu.....	≤0.02 ppm
Colour (APHA) .....	≤10	Density at 15° C .....	≥0.630	Total sulphur .....	≤50 ppm	Fe .....	≤0.1 ppm
Identification .....	Positive	Water (K.F.) .....	≤100 ppm	Al .....	≤0.5 ppm	Mg .....	≤0.1 ppm
Alcohol miscibility.....	Complete	Residue on evaporation .....	≤10 ppm	Ba .....	≤0.1 ppm	Mn .....	≤0.02 ppm
Diethyl ether miscib.....	Complete	Acidity (acetic acid).....	≤0.7 ppm	Ca .....	≤0.5 ppm	Ni .....	≤0.02 ppm
Boiling point min. ....	≥30 °C	Alcalinity (NH3).....	≤0.2 ppm	Cd .....	≤0.05 ppm	Pb .....	≤0.1 ppm
Boiling point max.....	≤40 °C	Benzene .....	≤200 ppm	Co .....	≤0.02 ppm	Sn .....	≤0.1 ppm
Fat oils .....	Conform	Unsaturated hydrocarbon.....	≤0.4 %	Cr .....	≤0.02 ppm	Zn .....	≤0.1 ppm

Code	Size	Packaging	Notes
447793	1 l	Glass bottle	
447795	5 l	Aluminium can	
447792	18 kg	Aluminium can	

## Phenacetin ► p-Acetylphenetidine



## o-Phenanthroline monohydrate

• o-Fenantrolina monoidrata • o-Phénanthroline monohydraté • o-Fenantrolina monohidratato • o-Phenanthrolinmonohydrat

Synonym:  
1,10-Phenanthroline monohydrate

C<sub>12</sub>H<sub>8</sub>N<sub>2</sub>·H<sub>2</sub>O  
Molecular Weight: 198,21  
CAS: 5144-89-8  
EEC-N: 200-629-2

### Classification transport

ONU: 3143  
Transport Hazard class: 6.1  
Packing group III



### Danger

H301-H410  
P264-P270-P301+P310a-P330-P405-P501a

## o-Phenanthroline monohydrate > RPE - For analysis - ACS

### RPE

Description .....	White - pink powder	Suitab. as indicator.....	Conform	Assay .....	≥ 99.0 %
Identification .....	Positive	Iron sensitivity .....	Conform		

Code	Size	Packaging	Notes
450038	5 g	Glass bottle	
450039	25 g	Glass bottle	

Redox indicator

## 1,10-Phenanthroline iron(II) sulfate complex ► Ferroin 0.025 mol/l solution



## o-Phenanthroline-Iron (II) sulphate solution in sulphuric acid

• o-Fenantrolina - Ferro solfato osò soluzione in acido solforico • o-Phénanthroline-Fer (II) sulfate • o-Fenantrolina-Hierro (II) sulfato solución en acido sulfúrico • o-Phenanthrolin-Eisen (II) sulfat

Synonym:  
• 1,10-Phenanthroline iron(II) sulfate complex  
• Ferroin

[Fe(C<sub>12</sub>H<sub>8</sub>N<sub>2</sub>)<sub>3</sub>]SO<sub>4</sub>  
Molecular Weight: 692,52  
CAS: 14634-91-4


H412  
P273-P501a

## o-Phenanthroline-Iron (II) sulphate solution in sulphuric acid > RPE - For analysis

### RPE

Description .....	Red clear liquid	Identification .....	Positive
-------------------	------------------	----------------------	----------

Code	Size	Packaging	Notes
E450043	100 ml	Glass bottle	

	<b>Phenol</b> • Fenolo • Phénol • Fenol • Phenol	Synonym: Hydroxybenzene
	<p><chem>C6H5OH</chem> Molecular Weight: 94,11 CAS: 108-95-2 EEC-N: 203-632-7</p> <p><b>Classification transport</b> ONU: 1671 Transport Hazard class: 6.1 Packing group II</p>	<p><b>Danger</b> H301-H311-H331-H314-H341-H373 P280-P301+P330+P331-P303+P361+P353- P304+P340-P305+P351+P338-P308+P313- P361+P364-P403+P233</p>

### Phenol > RPE - For analysis - ACS

RPE

Code	Size	Packaging	Notes
451271	1 kg	Plastic bottle	

For specifications, contact our customer service for a certificate of analysis

### Phenol > ERBapharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBapharm

Description .....	Crystalline mass	Appearance of solution .....	Conform Ph.Eur.	Water (K.F.) .....	≤0.5 %
Identification .....	Positive	Reaction, solution app. ....	Conform USP-NF	Not volatile residue .....	≤0.05 %
Acidity .....	Conform Ph.Eur.	Freezing point .....	≥ 39.5 °C	Assay (iodometric) .....	99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
343407	1 kg	Plastic bottle	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade

	<b>Phenol liquified 85%</b> • Fenolo liquido 85% • Phénol liquide 85% • Fenol liquido 85% • Phenol flüssiggas 85%	Synonym: Hydroxybenzene
	<p><chem>C6H5OH</chem> Molecular Weight: 94,11 CAS: 108-95-2</p> <p><b>Classification transport</b> ONU: 2821 Transport Hazard class: 6.1 Packing group II</p>	<p><b>Danger</b> H301-H311-H330-H314-H341-H373 P280-P284-P301+P330+P331-P303+P361+P353- P304+P340-P305+P351+P338-P403+P233</p>

### Phenol liquified 85% > RE - Pure

RE

Description .....	Clear liquid	Reaction .....	Conform	Assay .....	82.0 ÷ 86.5 %
Identification .....	Positive	Not volatile residue .....	≤0.05 %		

Code	Size	Packaging	Notes
343411	1 l	Glass bottle	

	<b>Phenol red</b> • Rosso fenolo • Rouge de phénol • Rojo de fenol • Phenolrot	Synonym: Phenolsulfonphthalein
	<p><chem>C19H14O5S</chem> Molecular Weight: 354,38 CAS: 143-74-8 EEC-N: 205-609-7</p>	<p><b>Warning</b> H315-H319-H335 P261-P271-P304+P340-P305+P351+P338- P332+P313-P403+P233</p>

### Phenol red > RPE - For analysis - ACS

RPE

Description .....	Red crystalline powder	Appearance of solution .....	Conform ACS	pH range .....	6.8 - 8.2
Identification .....	Positive	Colour change .....	yellow red		

Code	Size	Packaging	Notes
476838	5 g	Glass bottle	
476839	25 g	Glass bottle	

Clark indicator series. Dye for microscopy

**Phenol Red solution 0.2% in ethanol**

- Rosso fenolo soluzione 0,2% in alcole etilico • Rouge de phénol solution 0.2% dans l'éthanol • Rojo de fenol solución 0.2% en alcohol etilico
- Phenolrote Lösung 0.2% in Ethanol

**Warning**

H319

P264-P280i-P305+P351+P338-P337+P313

**Phenol Red solution 0.2% in ethanol > RPE - For analysis****RPE**

Description ..... Red clear liquid Identification ..... Positive Sensitivity( 6.8-8.4) ..... Conform Colour change..... yellow red

Code	Size	Packaging	Notes
E476845	250 ml	Glass bottle	

**Indicator series Clark indicator acid-base****Phenol red solution**

- Rosso fenolo solzione • Rouge de phénol solution • Rojo de fenol solución • Phenolrote Lösung

HEU210

**Phenol red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611063601	100 ml	Plastic bottle	Ref Ph.Eur 1063601 / Colour change: pH 6.8 (yellow) to pH 8.4 (reddish-violet)
611063603	500 ml	Plastic bottle	Phenol red solution R2 Ref Ph.Eur 1063603

**Phenolphthalein**

- Fenolftaleina • Phénolphtaléine • Fenolftaleína • Phenolphthalein

Synonym:

3,3-bis(4-Hydroxyphenyl)-1(3H)isobenzofuranone



Molecular Weight: 318,33

CAS: 77-09-8

EEC-N: 201-004-7

**Danger**

H341-H350-H361f-HA26

P201-P202-P280-P308+P313-P405-P501a

**Phenolphthalein > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**Description ..... White powder Appear. of alcohol sol..... Conform pH range ..... 8.0 ÷ 10.0  
Identification ..... Positive Colour change..... Colourless-red

Code	Size	Packaging	Notes
451154	100 g	Plastic bottle	
451156	500 g	Plastic bottle	

**Phenolphthalein solution 1% in ethanol**

- Fenolftaleina soluzione 1% in alcole etilico • Phénolphtaléine solution à 1% dans l'éthanol • Fenolftaleína solución 1% en alcohol etilico
- Phenolphthaleinlösung 1% in Ethanol

**Classification transport**

ONU: 1170

Transport Hazard class: 3

Packing group III

**Danger**

H226-H319-H341-H350-HA26

P210-P241-P280-P303+P361+P353-

P305+P351+P338-P308+P313

**Phenolphthalein solution 1% in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611063703	100 ml	Plastic bottle	Phenolphtalein solution R1 Ref Ph.Eur 1063703

**Phenolphthalein solution 1% in ethanol > RS - For analysis according to USP****RS**

Code	Size	Packaging	Notes
617000131	100 ml	Plastic bottle	Phenolphtalein TS

## Phenolphthalein solution 1% in ethanol > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Sensit. (pH 8.3-10.0) ..... Conform    Colour change ..... colourless-purple

Code	Size	Packaging	Notes
451191	250 ml	Glass bottle	
E451191	250 ml	Glass bottle	Only for italian market
451192	1 l	Glass bottle	
E451192	1 l	Glass bottle	Only for italian market

### Acid-base indicator



## Phenolphthalein solution 0.1%

• Fenolftaleina soluzione 0.1% • Phénolphtaléine solution 0.1% • Fenolftaleina solución 0.1% • Phenolphthaleinlösung 0.1%

### Classification transport

 ONU: 1170  
 Transport Hazard class: 3  
 Packing group II


### Danger

 H225  
 P210-P240-P241-P280-P303+P361+P353-P501a

## Phenolphthalein solution 0.1% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611063702	100 ml	Plastic bottle	Ref Ph.Eur 1063702



## Phenolphtalein solution 0.1% in ethanol

 • Fenolftaleina soluzione 0.1% in alcol etilico • Phénolphtaléine solution 0.1% dans l'éthanol • Fenolftaleina solución 0.1% en etanol  
 • Phenolphthaleinlösung 0.1% in Ethanol

### Classification transport

 ONU: 1170  
 Transport Hazard class: 3  
 Packing group II


### Danger

 H225  
 P210-P240-P241-P280-P303+P361+P353-P501a

## Phenolphtalein solution 0.1% in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611063709	1 l	Bottle	Ref Ph.Eur 1063702



## L-Phenylalanine

• L-Fenilalanina • L-Phénylalanine • L-Fenilalanina • L-Phenylalanin

Synonym:

*(S)-2-Amino-3-phenylpropionic acid*
 $C_9H_9CH_2CH(NH_2)COOH$   
 Molecular Weight: 165,19  
 CAS: 63-91-2  
 EEC-N: 200-568-1

## L-Phenylalanine > RPE - For analysis

**RPE**

 Description ..... White crystalline powder    Pb ..... ≤ 10 ppm    Heavy metals (Pb) ..... ≤ 20 ppm  
 Identification ..... Positive    pH solution 1% ..... 5.4 ÷ 6.0    Residue on ignition ..... ≤ 0.1 %  
 Potere rotator. specif. (C=2 in Acqua) ..... -33.0 ÷ -35.2 ° s.s.    Loss on drying ..... ≤ 0.3 %    Assay (non-aqueous medium) ..... 98.5 ÷ 102.0 % (s.s.)

Code	Size	Packaging	Notes
450328	5 g	Glass bottle	
450329	100 g	Glass bottle	

**2-Phenylethanol**

• Alcole 2-feniletílico • 2-Phényléthanol • Alcohol 2-feniletílico • 2-Phenylethanol

Synonym:  
2-Phenylethyl alcoholC<sub>8</sub>H<sub>10</sub>CH<sub>2</sub>CH<sub>2</sub>OH  
Molecular Weight: 122,17  
CAS: 60-12-8  
EEC-N: 200-456-2**Warning**H302-H319  
P264-P280i-P301+P312a-P305+P351+P338-  
P337+P313-P501a**2-Phenylethanol > ERBApharm - According to pharmacopoeia: USP****ERBApharm**Description ..... Clear colourless liquid    Aldehyde ..... Conform USP-NF    Sulphated ash ..... ≤50 ppm  
Identification ..... Positive    Density at 25° C ..... 1.017 ÷ 1.020    Residue solvents ..... Conform USP-NF  
Chlorinated compounds ..... Conform USP-NF    Refractive index at 20°C ..... 1.531 ÷ 1.534    Origin (BSE/TSE) ..... Vegetable

Code	Size	Packaging	Notes
529022	1 l	Glass bottle	
529021	2.4 l	Glass bottle	

**In case of Expicient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****2-Phenylethanol > RE - Pure****RE**Description ..... Liquido limpido incolore    Density at 20° C ..... 1.017 ÷ 1.023    Assay (CPG) ..... ≥ 98 %  
Identification ..... Positive    Refractive index at 20° C ..... 1.529 ÷ 1.535

Code	Size	Packaging	Notes
308731	1 l	Glass bottle	

**Phenylhydrazine hydrochloride**

• Fenilidrazina cloridrato • Phénylhydrazine chlorhydrate • Fenilhidracina clorhidrato • Phenylhydrazinhydrochlorid

C<sub>8</sub>H<sub>9</sub>NHNH<sub>2</sub>.HCl  
Molecular Weight: 144,61  
CAS: 59-88-1  
EEC-N: 200-444-7**Classification transport**ONU: 2811  
Transport Hazard class: 6.1  
Packing group III**Danger**H301-H311-H331-H315-H319-H317-H341-H350-  
H372-H400-HA26  
P280-P304+P340-P305+P351+P338-P308+P313-  
P330-P361+P364-P403+P233**Phenylhydrazine hydrochloride > RPE - For analysis****RPE**

Description ..... White to light yellow to pink-beige    Identification ..... Positive    Sulphated ash ..... ≤ 0.2 %    Assay (acidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
450843	50 g	Plastic bottle	

**Phenylhydrazine hydrochloride solution**

• Fenilidrazina cloridrato soluzione • Phénylhydrazine chlorhydrate solution • Fenilhidracina clorhidrata solución • Phenylhydrazinhydrochloridlösung

C<sub>8</sub>H<sub>9</sub>N<sub>2</sub>.HCl  
Molecular Weight: 144,6  
CAS: 59-88-1**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Danger**H290-H350-HEU208-HA26  
P234-P280-P308+P313-P390-P406-P501a**Phenylhydrazine hydrochloride solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611064501	100 ml	Glass bottle	Ref Ph.Eur 1064501



**Phloroglucinol**  
 • Floroglucina • Phloroglucinol • Floroglucina • Phloroglucin

Synonym:  
1,3,5-Trihydroxybenzene

1,3,5-(OH)<sub>3</sub>C<sub>6</sub>H<sub>3</sub>  
 Molecular Weight: 126,11  
 CAS: 108-73-6  
 EEC-N: 203-611-2



**Warning**  
 H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

**Phloroglucinol > RE - Pure** RE

Description ..... Polvere o scaglie bianche Melting point..... 213 - 218 ° C Assay (HPLC) ..... ≥99 %  
 Identification ..... Positive Water (K.F.) ..... ≤ 2 %

Code	Size	Packaging	Notes
452031	10 g	Glass bottle	
452033	50 g	Glass bottle	

**Phloxin B**  
 • Floxina B • Phloxine B • Floxina B • Phloxin B

Synonym:  
• Acid Red 92  
• 2',4',5',7'-Tetrabromo-4,5,6,7-tetrafluoresceine disodium salt

C<sub>20</sub>H<sub>2</sub>Br<sub>4</sub>Cl<sub>4</sub>Na<sub>2</sub>O<sub>5</sub>  
 Molecular Weight: 829,64  
 CAS: 18472-87-2  
 EEC-N: 242-355-6

**Phloxin B > RS - For microscopy - C.I. 45410** RS

Description ..... Red brown powder Identification ..... Positive

Code	Size	Packaging	Notes
452051	10 g	Glass bottle	
452052	25 g	Glass bottle	

*Dye for botanical, cytology and histology*

**Phosphate standard solution**  
 • Fosfati standard soluzione • Phosphate solution standard • Fosfato, solución patrón • Phosphat-Standardlösung

**Phosphate standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2** RS

Code	Size	Packaging	Notes
615002200	100 ml	Plastic bottle	A 5 ppm solution: to dilute according to Ref Ph.Eur 5002200
615004200	1 l	Plastic bottle	A 200 ppm solution Ref Ph.Eur 5004200

**Phosphate standard solution > RS - Standard solution for ion chromatography** RS

Code	Size	Packaging	Notes
503341	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503343	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

**Phosphate buffer pH 9.0**  
 • Tampone fosfato pH 9.0 • Tampon phosphate pH 9.0 • Tampon fosfato pH 9.0 • Pufferlösung phosphat pH 9.0

**Phosphate buffer pH 9.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3** RS

Code	Size	Packaging	Notes
614008300	1 l	Plastic bottle	Ref Ph.Eur 4008300

**Phosphate buffer pH 7.4**

• Tampone fosfato pH 7.4 • Tampon phosphate pH 7.4 • Tampon fosfato pH 7.4 • Pufferlösung phosphat pH 7.4

**Phosphate buffer pH 7.4 > RS - For analysis**

RS

Temperature of measurement ..... 19 - 21 °C pH..... 7.35 - 7.45 unité pH

Code	Size	Packaging	Notes
524965	5 l	Kubidos	
PS0740/95	5 l	Kubidos	

**Composition: Potassium dihydrogen phosphate 1.9g/l, disodium hydrogen phosphate 19.3g/l, deionized water 992.5 g/l. Traceable to NIST****Phosphate buffer pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614004800	1 l	Plastic bottle	Ref Ph.Eur 4004800

**Phosphate buffer pH 7.2**

• Tampone fosfato pH 7.2 • Tampon phosphate pH 7.2 • Tampón fosfato pH 7.2 • Pufferlösung phosphat pH 7.2

**Phosphate buffer pH 7.2 > RS - For analysis**

RS

pH..... 7.16 ÷ 7.24 Temperature ..... 19 ÷ 21 °C

Code	Size	Packaging	Notes
525925	2.5 l	Glass bottle	
525921	25 l	Plastic tank	

**Phosphate buffer pH 6.8**

• Tampone fosfato pH 6.8 • Tampon phosphate pH 6.8 • Tampon fosfato pH 6.8 • Pufferlösung phosphat pH 6.8

**Phosphate buffer pH 6.8 > RS - For analysis**

RS

pH..... 6.75 - 6.85 Temperature ..... 19 ÷ 21 °C

Code	Size	Packaging	Notes
524952	10 l	Plastic tank	

**Composition: Potassium dihydrogen phosphate 6.8g/l, sodium hydroxide 0.9g/l, deionized water 992.3 g/l. Traceable to NIST****Phosphate buffer pH 6.8 > RS - For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614003400	1 l	Plastic bottle	Ref Ph.Eur 4003400

**Phosphate buffer pH 6.0**

• Tampone fosfato pH 6.0 • Tampon phosphate pH 6.0 • Tampon fosfato pH 6.0 • Pufferlösung phosphat pH 6.0

**Phosphate buffer pH 6.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614002400	1 l	Plastic bottle	Ref Ph.Eur 4002400

**Phosphate buffer pH 5.5**

• Tampone fosfato pH 5.5 • Tampon phosphate pH 5.5 • Tampon fosfato pH 5.5 • Pufferlösung phosphat pH 5.5

**Phosphate buffer pH 5.5 > RS - For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614002000	1 l	Plastic bottle	Ref Ph.Eur 4002000



## Phosphate buffer pH 3.0

• Tampone fosfato pH 3.0 • Tampon phosphate pH 3.0 • Tampon fosfato pH 3.0 • Pufferlösung phosphat pH 3.0

Phosphate buffer pH 3.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614000501	100 ml	Plastic bottle	Ref Ph.Eur 4000500
614000500	1 l	Plastic bottle	Ref Ph.Eur 4000500



## Phosphate buffer pH 2.0

• Tampone fosfato pH 2.0 • Tampon phosphate pH 2.0 • Tampon fosfato pH 2.0 • Pufferlösung phosphat pH 2.0

Phosphate buffer pH 2.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614007900	1 l	Plastic bottle	Ref Ph.Eur 4007900



## Phosphomolybdic acid

• Acido fosfomolibdico • Acide phosphomolybdique • Acido fosfomolibdico • Phosphormolybdänsäure

Synonym:  
Molybdophosphoric acid

$2H_3PO_4 \cdot 20MoO_3 \cdot 48H_2O$   
Molecular Weight: 3939,5  
CAS: 51429-74-4

**Classification transport**  
ONU: 3084  
Transport Hazard class: 8  
Packing group II



**Danger**  
H272-H314  
P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

Phosphomolybdic acid > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description .....	Yellow crystals	Chloride .....	≤ 200 ppm	Sulphate .....	≤ 250 ppm
Identification .....	Positive	Water-insoluble matter .....	≤ 100 ppm	Ca .....	≤ 200 ppm
Ammonium .....	≤ 100 ppm	Heavy metals (Pb) .....	≤ 50 ppm	Fe .....	≤ 50 ppm

Code	Size	Packaging	Notes
405913	50 g	Glass bottle	
405915	250 g	Glass bottle	



## Phosphomolybdotungstic reagent

• Reattivo fosfomolibdotungstico • Réactif phosphomolybdotungstique • Fosfomolibdotungstenico reactivo • Phosphomolybdotungstica-Reagenz

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H302-H315-H319  
P264-P280a-P305+P351+P338-P332+P313-P362+P364-P337+P313

Phosphomolybdotungstic reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611065000	100 ml	Plastic bottle	Ref Ph.Eur 1065000

Storage: at 2 °C to 8 °C

**Phosphonic acid**

• Acido fosfonico • Acide phosphonique • Acido fosfonico • Phosphorige Säure

Synonym:  
Phosphorous acid

Molecular Weight: 82

CAS: 13598-36-2

EEC-N: 237-066-7

**Classification transport**

ONU: 2834

Transport Hazard class: 8

Packing group III

**Danger**

H302-H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Phosphonic acid > RPE - For analysis****RPE**

Description ..... White crystals    Chloride ..... ≤ 100 ppm    Fe ..... ≤ 20 ppm  
 Identification ..... Positive    Sulphate ..... ≤ 80 ppm    Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
406056	500 g	Glass bottle	
406053	20 kg	Plastic bucket	

Phosphoric acid ► Orthophosphoric acid 99%

Phosphoric anhydride ► Phosphorus pentoxide

Phosphorous acid ► Phosphonic acid

**Phosphorus standard solution**

• Fosforo standard soluzione • Phosphore solution standard • Fósforo, solución patrón • Phosphor-Standardlösung

**Danger**

H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Phosphorus standard solution > RS - Standard solution for ICP-MS****RS**


Code	Size	Packaging	Notes
505762	100 ml	Plastic bottle	conc. 10 ppm Matrix: Water
505765	100 ml	Plastic bottle	conc. 100 ppm Matrix: Water
505763	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Phosphorus standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503791	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503793	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503795	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Water
503797	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Phosphorus pentoxide**  
 • Anidride fosforica • Anhydride phosphorique • Anhidrido fosfórico • Phosphorpentoxid  
 Synonym: Phosphoric anhydride

$P_2O_5$ Molecular Weight: 141,94 CAS: 1314-56-3 EEC-N: 215-236-1	<b>Classification transport</b> ONU: 1807 Transport Hazard class: 8 Packing group II	 <b>Danger</b> H314 P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338
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**Phosphorus pentoxide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP**

RPE

Description .....	White powder	Water-insoluble matter .....	≤200 ppm	Heavy metals (Pb).....	≤100 ppm
Identification .....	Positive	Ammonium .....	≤100 ppm	Assay (acidimetric) .....	≥98.0 %

Code	Size	Packaging	Notes
421808	100 g	Glass bottle	
421802	250 g	Glass bottle	


**Phosphorus pentoxide > RE - Pure**

RE

Description .....	White powder	Identification .....	Positive	Heavy metals (Pb).....	≤500 ppm	Assay (acidimetric) .....	≥98 %
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Code	Size	Packaging	Notes
317753	250 g	Glass bottle	

**Phosphosulfuric acid**  
 • Acido fosfosolforico • Acide phosphosulfurique • Acido fosfosulfúrico • Phosphosulfonsäure

<b>Classification transport</b> ONU: 3264 Transport Hazard class: 8 Packing group II	 <b>Danger</b> H290-H314 P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338
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**Phosphosulfuric acid > RS - For nitrogen detection according to Kjeldahl**

RS

Description .....	Clear colourless liquid	Identification .....	Positive	Ammonium .....	≤1 ppm	Nitrate .....	≤0.2 ppm
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Code	Size	Packaging	Notes
E406101	1 l	Glass bottle	

**Phosphotungstic acid**  
 • Acido fosfotungstico • Acide phosphotungstique • Acido fosfotúngstico • Phosphorwolframsäure  
 Synonym: Tungstophosphoric acid

$H_3PO_4 \cdot 12WO_3 \cdot H_2O$ Molecular Weight: 2880,05 CAS: 12501-23-4	<b>Classification transport</b> ONU: 3260 Transport Hazard class: 8 Packing group III	 <b>Danger</b> H314 P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338
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**Phosphotungstic acid > RPE - For analysis**

RPE

Description .....	White powder	Sulphate .....	≤ 50 ppm	Heavy metals (Pb).....	≤ 40 ppm	Assay .....	≥ 82 %
Identification .....	Positive	Ammonium .....	≤ 50 ppm	Fe .....	≤ 30 ppm		
Chloride .....	≤ 20 ppm	Residue on calcination .....	≤ 17 %	Na .....	≤ 100 ppm		

Code	Size	Packaging	Notes
406154	100 g	Glass bottle	

**Phosphotungstic acid solution**  
 • Acido fosfotungstico soluzione • Acide phosphotungstique solution • Acido fosfotúngstico solución • Phosphorwolframsäure-Lösung  
 Synonym: Phosphotungstic acid hydrate, Tungstophosphoric acid

**Phosphotungstic acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611065200	100 ml	Plastic bottle	Ref Ph.Eur 1065200

**o-Phthalaldehyde**

• o-Ftalaldeide • o-Phthalaldéhyde • o-Ftalaldialdehído • o-Phthalaldehyd

Synonym:

*Benzene-1,2-dicarboxaldehyde*

$C_6H_4(CHO)_2$   
Molecular Weight: 134,13  
CAS: 643-79-8  
EEC-N: 211-402-2

**Danger**

H301  
P264-P270-P301+P310a-P330-P405-P501a

**o-Phthalaldehyde > RPE - For analysis****RPE**

Description ..... Yellow-orange crystals    Melting point ..... 55 - 58 °C    Assay (GLC) ..... ≥ 98.0 %  
Identification ..... Positive    Acidity (Phthalic acid) ..... ≤ 0.3 %

Code	Size	Packaging	Notes
452751	10 g	Glass bottle	

**Phthalic acid**

• Acido ftalico • Acide phtalique • Acido ftálico • Phthalsäure

Synonym:

*1,2-Benzenedicarboxylic acid*

$1,2-(COOH)_2C_6H_4$   
Molecular Weight: 166,13  
CAS: 88-99-3  
EEC-N: 201-873-2

**Warning**

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Phthalic acid > RPE - For analysis - Reag. Ph. Eur.****RPE**

Description ..... White crystalline powder    Identification ..... Positive    Melting point ..... ~ 210 °C    Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
406205	250 g	Plastic bottle	

**Phthalic anhydride**

• Anidride ftalica • Anhydride phtalique • Anhídrido ftálico • Phthalsäureanhydrid

$C_6H_4(CO)_2O$   
Molecular Weight: 148,12  
CAS: 85-44-9  
EEC-N: 201-607-5

**Classification transport**

ONU: 2214  
Transport Hazard class: 8  
Packing group III

**Danger**

H302-H315-H318-H334-H317-H335  
P284-P304+P340-P310a-P305+P351+P338-P330-  
P362+P364-P342+P311a-P403+P233

**Phthalic anhydride > RE - Pure****RE**

Description ..... White flakes    Identification ..... Positive    Melting point ..... 129 ÷ 132 °C    Assay ..... ≥ 98.5 %

Code	Size	Packaging	Notes
318007	1 kg	Plastic bottle	

**3-Picolinic acid ▶ Nicotinic acid****Picric acid solution**

• Acido picrico soluzione • Acide picrique solution • Acido picrico solución • Pikrinsäure

Synonym:

*2,4,6-Trinitrophenol*

$C_6H_3N_3O_7$   
Molecular Weight: 229,11  
CAS: 88-89-1

HEU210

**Picric acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611065801	100 ml	Plastic bottle	Ref Ph.Eur 1065801
611065802	100 ml	Plastic bottle	Picric acid solution R1 Ref Ph.Eur 1065802



## Picric acid solution > RPE - For analysis

**RPE**

Description ..... Yellow clear liquid    Identification ..... Positive    Density at 20° C ..... 1.00 ÷ 1.02    Assay ..... 1.1 ÷ 1.3 %

Code	Size	Packaging	Notes
409302	500 ml	Plastic bottle	
409305	2.5 l	Plastic bottle	

**Saturated aqueous solution ~ 1.2%**


## Piperidine

• Piperidina • Pipéridine • Piperidina • Piperidin

 Synonym:  
Hexahydropyridine

 $NH(CH_2)_4CH_2$   
 Molecular Weight: 85,15  
 CAS: 110-89-4  
 EEC-N: 203-813-0

### Classification transport

 ONU: 2401  
 Transport Hazard class: 8  
 Packing group I


### Danger

 H225-H302-H311-H331-H314  
 P210-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338-P361+P364-  
 P403+P233

## Piperidine > RS - For peptide synthesis

**RS**

Refractive index at 20°C ..... 1.45 - 1.454    Water content (K.F.) ..... ≤ 3000 mg/Kg    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0663518	500 ml	Glass bottle	
P0663516	1 l	Glass bottle	
P0663521	2.5 l	Glass bottle	

## Piperidine > RPE - For analysis

**RPE**

 Description ..... Clear liquid    Density at 20° C ..... 0.856 ÷ 0.866    Water (K.F.) ..... <0.3 %  
 Colour ..... < 50 APHA    Assay (GLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
469551	100 ml	Glass bottle	
469552	500 ml	Glass bottle	

## Piperidine > RE - Pure

**RE**

 Refractive index at 20°C ..... 1.450 - 1.454    Density d20/4 ..... 0.856 - 0.866    Colour ..... ≤ 20 Hazen  
 Identification (IR) ..... Conform    Water content (K.F.) ..... ≤ 5000 mg/Kg    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0660216	1 l	Glass bottle	
P0660221	2.5 l	Glass bottle	
P0660229	5 l	Plastic tank	
P0660248	25 l	Metal drum	



## Platinum standard solution

• Platino standard soluzione • Platine solution standard • Platino, solución patrón • Platin-Standardlösung

### Classification transport

 ONU: 1760  
 Transport Hazard class: 8  
 Packing group III


## Platinum standard solution > RS - Standard solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
505787	100 ml	Plastic bottle	conc. 10 ppm Matrix: Hydrochloric acid
505788	100 ml	Plastic bottle	conc. 100 ppm Matrix: Hydrochloric acid
505789	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Platinum standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503831	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503833	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503835	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
503837	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Polyvinylpyrrolidone

• Polivinilpirrolidone • Polyvinylpyrrolidone • Polivinilpirrolidona • Polyvinylpyrrolidon

Synonym:

- PVP
- Polyvidone

 $(C_6H_9NO)_n$ 

Molecular Weight: 25000-30000

CAS: 9003-39-8

## Polyvinylpyrrolidone &gt; RPE - For analysis

RPE

Description ..... White powder Identification ..... Positive Loss on drying ..... ≤5 %

Code	Size	Packaging	Notes
470071	500 g	Plastic bottle	
470072	1.5 kg	Plastic bottle	



## Ponceau red BS

• Rosso Ponceau BS • Rouge Ponceau BS • Rojo Ponceau BS • Ponceau rot BS

Synonym:

- Ponceau BS
- Acid Red 66

 $C_{22}H_{14}N_4Na_2O_7S_2$ 

Molecular Weight: 556,48

CAS: 4196-99-0

EEC-N: 224-084-5

## Ponceau red BS &gt; RS - For microscopy - C.I. 26905

RS

Description ..... Red brick powder Identification ..... Positive

Code	Size	Packaging	Notes
476941	10 g	Glass bottle	

**Dye for histology**



## Ponceau red S

• Rosso Ponceau S • Rouge Ponceau S • Rojo Ponceau S • Ponceau rot S

Synonym:

3-Hydroxy-4-(2-sulfo-4-[4-sulfophenylazo]phenylazo)-2,7-naphthalenedisulfonic acid sodium salt

 $C_{22}H_{12}N_4Na_4O_{10}S_4$ 

Molecular Weight: 760,56

CAS: 6226-79-5

EEC-N: 228-319-2



Warning

H315-H319-H335

P261-P271-P304+P340-P305+P351+P338-

P332+P313-P403+P233

## Ponceau red S &gt; RS - For microscopy - C.I. 27195

RS

Description ..... Brown powder Identification ..... Positive

Code	Size	Packaging	Notes
476981	5 g	Glass bottle	
476982	25 g	Glass bottle	

**Dye for histochemistry**



## Potassium standard solution

• Potassio standard soluzione • Potassium solution standard • Potasio, solución patrón • Kalium-Standardlösung



### Danger

H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Potassium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002401	100 ml	Plastic bottle	A 20 ppm solution: to dilute according to Ref Ph.Eur 5002401
615002402	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5002402
615002409	100 ml	Plastic bottle	A 100 ppm solution: to dilute according to Ref Ph.Eur 5002400
615005100	100 ml	Plastic bottle	A 600 ppm solution: to dilute according to Ref Ph.Eur 5005100

### Potassium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505682	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505685	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505683	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Potassium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503671	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503673	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503675	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503677	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Potassium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507753	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
506960	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497605	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497601	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Potassium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
470081		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Potassium standard solution > RS - Standard solution for ion chromatography

**RS**

Code	Size	Packaging	Notes
503271	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503273	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Potassium acetate

• Potassio acetato • Potassium acétate • Potasio acetato • Kaliumacetat

CH<sub>3</sub>COOK  
Molecular Weight: 98,15  
CAS: 127-08-2  
EEC-N: 204-822-2

## Potassium acetate > RPE - For analysis

**RPE**

Description .....	White granular powder	Sulphate .....	≤ 50 ppm	Assay (non-aqueous medium) .....	≥ 99 %	Mg .....	≤ 100 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤ 10 ppm	Water .....	≤ 1.0 %	Hg .....	≤ 1 ppm
pH sol. 5% at 20°C .....	7.5 ÷ 8.5	Fe .....	≤ 20 ppm	Ca .....	≤ 100 ppm		
Chloride .....	≤ 50 ppm	Zn .....	≤ 20 ppm	Na .....	≤ 0.4 %		

Code	Size	Packaging	Notes
470145	100 g	Plastic bottle	
470146	500 g	Plastic bottle	
470147	1 kg	Plastic bottle	
470143	25 kg	Plastic bucket	

## Potassium acetate > ERBApharm - According to pharmacopoeia: BP-Ph.Eur.

**ERBApharm**


Description .....	White crystalline powder	pH solution 5% .....	7.5 ÷ 9.0	Sulphate .....	≤ 200 ppm	Assay (non-aqueous medium) .....	99.0 ÷ 101.0 % s.s.
Identification .....	Positive	Loss on drying .....	≤ 3.0 %	Al .....	≤ 1 ppm	Origin (BSE/TSE) .....	Synthesis
Appearance of solution .....	Conform Ph.Eur.	Chloride .....	≤ 200 ppm	Fe .....	≤ 20 ppm		
Reducing substances .....	Conform Ph.Eur.	Heavy metals (Pb) .....	≤ 4 ppm	Na .....	≤ 0.5 %		

Code	Size	Packaging	Notes
358907	1 kg	Plastic bottle	
358908	5 kg	Plastic tank	
358903	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

Potassium aluminum sulfate dodecahydrate ▶ Aluminum potassium sulfate dodecahydrate

Potassium antimonyl tartrate trihydrate ▶ Antimony potassium tartrate


	<b>Potassium bicarbonate</b>	Synonym: <i>Potassium hydrogen carbonate</i>
	• Potassio bicarbonato • Potassium bicarbonate • Potasio bicarbonato • Kaliumbicarbonat	
<p>KHCO<sub>3</sub>  Molecular Weight: 100,12  CAS: 298-14-6  EEC-N: 206-059-0</p>		

### Potassium bicarbonate > RPE - For analysis - ACS

**RPE**

Description	White crystalline powder	Chloride	≤10 ppm	Ca	≤20 ppm	Assay (alkalimetric)	99.7 ÷ 100.5 % s.s.
Identification	Positive	Phosphate	≤5 ppm	Fe	≤5 ppm		
Water-insoluble matter	≤100 ppm	Total sulphur	≤30 ppm	Mg	≤10 ppm		
Ammonium	≤5 ppm	Heavy metals (Pb)	≤5 ppm	Na	≤300 ppm		

Code	Size	Packaging	Notes
470285	100 g	Plastic bottle	
470286	500 g	Plastic bottle	
470287	1 kg	Plastic bottle	
470289	5 kg	Plastic jar	

	<b>Potassium bisulfate</b>	Synonym: <i>Potassium hydrogen sulfate</i>
	• Potassio bisolfato • Potassium bisulfate • Potasio bisolfato • Kaliumbisulfat	
<p>KHSO<sub>4</sub>  Molecular Weight: 136,17  CAS: 7646-93-7  EEC-N: 231-594-1</p>		
<p><b>Classification transport</b>  ONU: 2509  Transport Hazard class: 8  Packing group II</p>		<p><b>Danger</b>  H314-H335  P280-P301+P330+P331-P303+P361+P353-  P304+P340-P310a-P305+P351+P338-P403+P233</p>

### Potassium bisulfate > RPE - For analysis

**RPE**

Description	White crystals	Ammonium	≤ 20 ppm	Heavy metals (Pb)	≤ 20 ppm	Fe	≤ 20 ppm
Identification	Positive	Chloride	≤ 20 ppm	Ca	≤ 200 ppm	Assay (acidimetric)	98 ÷ 102 %

Code	Size	Packaging	Notes
470556	100 g	Plastic bottle	
470557	1 kg	Plastic bottle	
470552	25 kg	Plastic bucket	

## Potassium bitartrate ► Potassium L-tartrate monobasic

	<b>Potassium bromate</b>	
	• Potassio bromato • Potassium bromate • Potasio bromato • Kaliumbromat	
<p>KBrO<sub>3</sub>  Molecular Weight: 167,01  CAS: 7758-01-2  EEC-N: 231-829-8</p>		
<p><b>Classification transport</b>  ONU: 1484  Transport Hazard class: 5.1  Packing group II</p>		<p><b>Danger</b>  H271-H301-H350-HA26  P210-P280-P283-P301+P310a-P306+P360-  P308+P313</p>

### Potassium bromate > RS - For analysis according to Ph. Eur. Chap. 4.2.1

**RS**

Code	Size	Packaging	Notes
612000300	50 g	Plastic bottle	Ref Ph.Eur 2000300

### Potassium bromate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description	White crystals	Bromide	Conform ACS	Sulphate	≤ 50 ppm	Assay (oxidimetric)	≥ 99.8 %
Identification	Positive	Water-insoluble matter	≤ 50 ppm	Fe	≤ 20 ppm		
pH sol. 5% at 25° C	5.0 ÷ 9.0	Heavy metals (Pb)	≤ 5 ppm	Na	≤ 100 ppm		

Code	Size	Packaging	Notes
470655	250 g	Plastic bottle	



## Potassium bromate 0.033 mol/l (0.198N)

- Potassio bromato 0.033 mol/l (0.198N) • Potassium bromate 0.033 mol/l (0.198N) • Potasio bromato 0.033 mol/l (0.198N)
- Kaliumbromat 0.033 mol / l (0.198 N)



**Danger**  
H350-HA26  
P201-P202-P280-P308+P313-P405-P501a

### Potassium bromate 0.033 mol/l (0.198N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613004200	1 l	Plastic bottle	Ref Ph.Eur 3004200



## Potassium bromate 0.02 mol/l (0.12N)

- Potassio bromato 0.02 mol/l (0.12N) • Potassium bromate 0.02 mol/l (0.12N) • Potasio bromato 0.02 mol/l (0.12N) • Kaliumbromat 0.02 mol/l (0.12N)

### Potassium bromate 0.02 mol/l (0.12N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613004300	1 l	Plastic bottle	Ref Ph.Eur 3004300



## Potassium bromate 0.0167 mol/l (0.1N)

- Potassio bromato 0.0167 mol/l (0.1N) • Potassium bromate 0.0167 mol/l (0.1N) • Potasio bromato 0.0167 mol/l (0.1N) • Kaliumbromat 0.0167 mol/l (0.1N)

KBrO<sub>3</sub>  
CAS: 7758-01-2



**Danger**  
H350-HA26  
P201-P202-P280-P308+P313-P405-P501a

### Potassium bromate 0.0167 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
470681		Glass ampoule	Volume: 60 ml

**Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



## Potassium bromide

- Potassio bromuro • Potassium bromure • Potasio bromuro • Kaliumbromid

KBr  
Molecular Weight: 119,01  
CAS: 7758-02-3  
EEC-N: 231-830-3



**Warning**  
H319  
P264-P280i-P305+P351+P338-P337+P313

### Potassium bromide > RS - For optical spectroscopy

RS

Description ..... White cryst. powder Identification (I.R.) ..... Conform

Code	Size	Packaging	Notes
470701	100 g	Glass bottle	

### Potassium bromide > RPE - For analysis - ACS

RPE

Description ..... White crystals Bromate ..... ≤ 10 ppm Sulphate ..... ≤ 50 ppm Fe ..... ≤ 5 ppm  
Identification ..... Positive Chloride ..... ≤ 0.2 % Heavy metals (Pb) ..... ≤ 5 ppm Mg ..... ≤ 10 ppm  
pH sol. 5% at 25° C ..... 5.0 ÷ 8.8 Iodate ..... ≤ 10 ppm Ba ..... ≤ 20 ppm Na ..... ≤ 0.02 %  
Water-insoluble matter ..... ≤ 50 ppm Iodide ..... ≤ 10 ppm Ca ..... ≤ 20 ppm Assay (argentimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
470734	100 g	Plastic bottle	
470735	250 g	Plastic bottle	
470737	1 kg	Plastic bottle	
470733	25 kg	Plastic bucket	



## Potassium bromide > ERBApharm - According to pharmacopoeia: BP-DAB-Ph.Eur.-Ph.Franc.

**ERBApharm**

Description .....	White crystalline powder	Bromate .....	Conform Ph.Eur.	Heavy metals (Pb).....	≤ 10 ppm	Assay (argentimetric) ..	98.0 ÷ 100.5 % s.s.
Identification .....	Positive	Iodide .....	Conform Ph.Eur.	Mg,alkal.earth met.(Ca) .....	≤ 200 ppm		
Appearance of solution .....	Conform Ph.Eur.	Loss on drying .....	≤ 1.0 %	Sulphate .....	≤ 100 ppm		
Acidity or alkalinity.....	Conform Ph.Eur.	Chloride.....	≤ 0.6 %	Fe .....	≤ 20 ppm		

Code	Size	Packaging	Notes
359707	1 kg	Plastic bottle	
359702	5 kg	Plastic tank	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*



## Potassium carbonate

• Potasio carbonato • Potassium carbonate • Potasio carbonato • Kaliumcarbonat

K2CO3  
Molecular Weight: 138,21  
CAS: 584-08-7



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

## Potassium carbonate > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611068900	100 g	Glass bottle	Ref Ph.Eur 1068900

## Potassium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	White powder	Phosphate .....	≤ 10 ppm	Ca .....	≤ 50 ppm	Assay (alkalimetric).....	≥ 99.0 %
Identification .....	Positive	Silicate .....	≤ 50 ppm	Fe .....	≤ 5 ppm		
Water-insoluble matter .....	≤ 100 ppm	Total sulphur .....	≤ 40 ppm	Mg .....	≤ 20 ppm		
Chloride.....	≤ 30 ppm	Heavy metals (Pb).....	≤ 5 ppm	Na .....	≤ 200 ppm		

Code	Size	Packaging	Notes
470805	250 g	Plastic bottle	
470807	1 kg	Plastic bottle	
470801	5 kg	Plastic tank	

## Potassium carbonate > RE - Pure

**RE**

Description .....	White crystalline powder	Sulphate .....	≤ 50 ppm	Na .....	≤ 0.25 %	KOH .....	≤ 0.15 %
Identification .....	Positive	Heavy metals (Pb).....	≤ 1 ppm	Assay (alkalimetric).....	99.0 ÷ 100.0 %		
Chloride.....	≤ 20 ppm	Fe .....	≤ 5 ppm	Loss on drying .....	≤ 0.8 %		

Code	Size	Packaging	Notes
359808	1 kg	Plastic bottle	
359809	5 kg	Plastic tank	
359803	25 kg	Plastic bucket	



## Potassium chloride

• Potasio cloruro • Potassium chlorure • Potasio cloruro • Kaliumchlorid

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7  
EEC-N: 231-211-8

## Potassium chloride > RS - For soils analysis

**RS**

Assay (argentimetric).....	≥ 99.0 %	Water insoluble substances.....	≤ 0.005 %	Ammonium (NH4).....	≤ 0.00007 %	Fe .....	≤ 0.0002 %
pH sol. 5% at 25°C .....	5.4 ÷ 8.6	Sulphate .....	≤ 0.002 %	Phosphate .....	≤ 0.001 %	Heavy metals (Pb).....	≤ 0.0002 %

Code	Size	Packaging	Notes
471181	5 kg	Plastic jar	

## Potassium chloride > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description .....	White crystals	Water-insoluble matter .....	≤ 50 ppm	Iodide .....	≤ 20 ppm	Fe .....	≤ 3 ppm
Identification .....	Positive	Mg and alkaline-earth metals (Ca) .....	≤ 200 ppm	Sulphate .....	≤ 10 ppm	Mg .....	≤ 10 ppm
Acidity or alkalinity .....	Conform	Bromide .....	≤ 100 ppm	Heavy metals (Pb) .....	≤ 5 ppm	Na .....	≤ 50 ppm
Appearance of solution .....	Conform	Nitrate, Chlorate (NO <sub>3</sub> ) .....	≤ 30 ppm	Al .....	≤ 1 ppm	Assay (argentimetric) .....	99.0 ÷ 100.5 % s.s.
pH sol. 5% at 25° C .....	5.4 ÷ 8.6	Phosphate .....	≤ 5 ppm	Ba .....	≤ 10 ppm		
Loss on drying .....	≤ 1.0 %			Ca .....	≤ 20 ppm		

Code	Size	Packaging	Notes
471175	100 g	Plastic bottle	
471176	500 g	Plastic bottle	
471177	1 kg	Plastic bottle	
471171	5 kg	Plastic jar	
471173	25 kg	Plastic bucket	

## Potassium chloride > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBApharm**

Description .....	White crystalline powder	Barium .....	Conform Ph.Eur.	Bromide .....	≤ 0.1 %	Assay (argentimetric) .....	99.0 ÷ 100.5 %
Identification .....	Positive	Na .....	Conform USP-NF	Heavy metals (Pb) .....	≤ 10 ppm	Origin (BSE/TSE) .....	Synthesis
Appearance of solution .....	Conform Ph.Eur.	Calcium + Magnesium .....	Conform USP-NF	Mg, alkal. earth met. (Ca) .....	≤ 200 ppm	Residual solvents (Current ICH) .....	Conform
Acidity or alkalinity .....	Conform Ph.Eur.	Residue solvents .....	Conform USP-NF	Sulphate .....	≤ 300 ppm		
Iodide .....	≤ 50 ppm	Loss on drying .....	≤ 1.0 %	Fe .....	≤ 20 ppm		

Code	Size	Packaging	Notes
360107	1 kg	Plastic bottle	
360109	5 kg	Plastic tank	
360106	25 kg	Plastic bucket	
360104	50 kg	Fibre drum	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*



## Potassium chloride 3.5 mol/l (3.5N)

• Potassio cloruro 3.5 mol/l (3.5N) • Potassium chlorure 3.5 mol/l (3.5N) • Potasio cloruro 3.5 mol/l (3.5N) • Kaliumchlorid 3.5 mol/l (3.5 N)

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

## Potassium chloride 3.5 mol/l (3.5N) > RPE - For analysis

**RPE**

Code	Size	Packaging	Notes
471225	250 ml	Plastic bottle	

*Content is guaranteed for standardized volumes at 20 °C*



## Potassium chloride 3.5 mol/l (3.5N) + silver chloride

• Potassio cloruro 3.5 mol/l (3.5N) e argento cloruro • Potassium chlorure 3.5 mol/l (3.5N) avec argent chlorure  
• Potasio cloruro 3.5 mol/l (3.5N) con plata cloruro • Kaliumchlorid 3.5 mol/l (3.5N) mit Silberchlorid

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

## Potassium chloride 3.5 mol/l (3.5N) + silver chloride > RPE - For analysis

**RPE**

Code	Size	Packaging	Notes
471245	250 ml	Plastic bottle	

*Electrolytic solution filling. Content is guaranteed for standardized volumes at 20 °C*



## Potassium chloride 3 mol/l (3N)

• Potassio cloruro 3 mol/l (3N) • Potassium chlorure 3 mol/l (3N) • Potasio cloruro 3 mol/l (3N) • Kaliumchlorid 3 mol/l (3N)

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 3 mol/l (3N) > RPE - For analysis

RPE

Code	Size	Packaging	Notes
471215	250 ml	Plastic bottle	

**Electrolyte for the reference electrode.**

**Content is guaranteed for standardized volumes at 20 °C.**



## Potassium chloride 3 mol/l (3N) water-glycerol solution

• Potassio cloruro 3 mol/l (3N) soluzione acqua-glicerina • Potassium chlorure 3 mol/l (3N) solution eau/glycérine  
• Potasio cloruro 3 mol/l (3N) solución agua-glicerina • Kaliumchlorid 3 mol/l (3N) Lösung aus Wasser und Glycerin

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 3 mol/l (3N) water-glycerol solution > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    Titolo (KCl) ..... 1.485 ÷ 1.515    Density at 20°C ..... 1.190 ÷ 1.210

Code	Size	Packaging	Notes
471275	250 ml	Plastic bottle	

**Electrolytic solution filling. Content is guaranteed for standardized volumes at 20 °C**



## Potassium chloride 3 mol/l (3N) + silver chloride

• Potassio cloruro 3 mol/l (3N) e argento cloruro • Potassium chlorure 3 mol/l (3N) avec argent chlorure • Potasio cloruro 3 mol/l (3N) con plata cloruro  
• Kaliumchlorid 3 mol/l (3N) mit Silberchlorid

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 3 mol/l (3N) + silver chloride > RPE - For analysis

RPE

Code	Size	Packaging	Notes
471235	250 ml	Plastic bottle	

**Electrolyte for the reference electrode.**

**Content is guaranteed for standardized volumes at 20 °C**



## Potassium chloride 1 mol/l (1N)

• Potassio cloruro 1 mol/l (1N) • Potassium chlorure 1 mol/l (1N) • Potasio cloruro 1 mol/l (1N) • Kaliumchlorid 1 mol/l (1N)

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 1 mol/l (1N) > RS - For soils analysis

RS

Assay (potentiometry) ..... 0.98 - 1.02 N

Code	Size	Packaging	Notes
PS0772/79	100 l	Plastic drum	



## Potassium chloride 0.1 mol/l (0.1N)

• Potassio cloruro 0.1 mol/l (0.1N) • Potassium chlorure 0.1 mol/l (0.1N) • Potasio cloruro 0.1 mol/l (0.1N) • Kaliumchlorid 0.1 mol/l (0.1N)

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069101	1 l	Plastic bottle	Ref Ph.Eur 1069101



## Potassium chloride 0.01 mol/l (0.01N)

• Potassio cloruro 0.01 mol/l (0.01N) • Potassium chlorure 0.01 mol/l (0.01N) • Potasio cloruro 0.01 mol/l (0.01N) • Kaliumchlorid 0.01 mol/l (0.01N)

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 0.01 mol/l (0.01N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
471255	1 l	Plastic bottle	Potassium chloride 0.01 M

**Electrolytic solution filling**



## Potassium chloride 25g/l in HCl

• Potassio cloruro soluzione 25g/l in acido cloridrico • Potassium chlorure 25g/l dans HCl • Potasio cloruro solución 25g/l en HCl • Kaliumchlorid 25g/l (HCl)

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 25g/l in HCl > RS - Ionisation standard solution for AAS

RS

Code	Size	Packaging	Notes
504538	500 ml	Plastic bottle	Matrix: 2% Hydrochloric acid



## Potassium chloride 12g/l

• Potassio cloruro soluzione 12g/l • Potassium chlorure 12g/l • Potasio cloruro solución 12g/l • Kaliumchlorid 12g/l

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 12g/l > RS - For analysis according to Ph. Eur.Chap. 2.2.25

RS

Code	Size	Packaging	Notes
506432	10 ml	Sealed cuvette	
506433	100 ml	Glass bottle	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z



## Potassium chloride saturated solution

• Potassio cloruro soluzione satura • Potassium chlorure solution saturée • Potasio cloruro solución saturada • Kaliumchlorid-Lösung gesättigt

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride saturated solution > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.169 ÷ 1.173

Code	Size	Packaging	Notes
471265	250 ml	Plastic bottle	

**Electrolytic solution filling**



## Potassium chloride solution

• Potassio cloruro soluzione • Potassium chlorure solution • Potasio cloruro solución • Kaliumchlorid-Lösung

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride solution > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.12 ÷ 1.14 pH at 20° C ..... 6.6 ÷ 6.8

Code	Size	Packaging	Notes
471285	250 ml	Plastic bottle	

**Conservation solution for electrodes**



## Potassium chromate

• Potassio cromato • Potassium chromate • Potasio cromato • Kaliumchromat

K<sub>2</sub>CrO<sub>4</sub>  
Molecular Weight: 194,2  
CAS: 7789-00-6  
EEC-N: 232-140-5

**Classification transport**  
ONU: 3288  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H315-H319-H317-H340-H350i-H335-H410-HA26  
P261-P271-P280-P304+P340-P305+P351+P338-P403+P233

### Potassium chromate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Yellow crystals Water-insoluble matter ..... ≤50 ppm Ca ..... ≤50 ppm  
Identification ..... Positive Chloride ..... ≤50 ppm Na ..... ≤200 ppm  
pH sol. 5% at 25° C ..... 8.6 ÷ 9.8 Sulphate ..... ≤300 ppm Assay (oxidimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
471295	250 g	Plastic bottle	
471297	1 kg	Plastic bottle	



## Potassium chromate solution 10%

• Potassio cromato soluzione 10% • Potassium chromate 10% solution • Potasio cromato solución 10% • Kaliumchromatlösung bei 10%

K<sub>2</sub>CrO<sub>4</sub>  
Molecular Weight: 194,2  
CAS: 7789-00-6

**Classification transport**  
ONU: 3287  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H315-H319-H317-H340-H350i-H411-HA26  
P261-P280-P305+P351+P338-P308+P313-P362+P364-P337+P313

### Potassium chromate solution 10% > RPE - For analysis

RPE

Code	Size	Packaging	Notes
505032	1 l	Bottle	



## Potassium chromate 5% solution

• Potassio cromato soluzione 5% • Potassium chromate solution 5% • Potasio cromato solución 5% • Kaliumchromatlösung bei 5%

$K_2CrO_4$   
Molecular Weight: 194,2  
CAS: 7789-00-6



### Danger

H317-H340-H350i-H411-HA26  
P261-P280-P308+P313-P362+P364-P333+P313-P501a

### Potassium chromate 5% solution > RS - For agroalimentary analysis

RS

Appearance ..... Conform Assay ..... 4.75 ÷ 5.25 %

Code	Size	Packaging	Notes
502681	1 l	Plastic bottle	

Composition according to NF V04-314:  $K_2CrO_4$  50g water QSP 1 L

### Potassium chromate 5% solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069201	1 l	Plastic bottle	Ref Ph.Eur 1069201

## Potassium chromium (III)sulfate dodecahydrate ▶ Chromium (III) potassium sulfate dodecahydrate



## Potassium citrate tribasic monohydrate

• Potassio citrato tribasico monoidrato • Potassium citrate tribasique monohydraté  
• Potasio citrato tribásico monohidrato • Tribasisches Kaliumcitrat-Monohydrat

Synonym:  
*Tripotassium citrate*

$K_3C_6H_5O_7 \cdot H_2O$   
Molecular Weight: 324,42  
CAS: 6100-05-6  
EEC-N: 212-755-5

### Potassium citrate tribasic monohydrate > RPE - For analysis

RPE

Description ..... White crystalline powder  
Identification ..... Positive  
Reducing substances ..... Conform  
Ready carbonizable substances..... Conform  
pH sol. 5% at 25° C ..... 7.5 ÷ 9.5

Chloride.....	≤10 ppm	As.....	≤0.4 ppm	Ni.....	≤5 ppm
Water-insoluble matter.....	≤30 ppm	Ca.....	≤50 ppm	Zn.....	≤2 ppm
Heavy metals (Pb).....	≤20 ppm	Cu.....	≤5 ppm	Assay (non-aqueous medium).....	≥99.5 %
Oxalate.....	≤100 ppm	Fe.....	≤5 ppm		
Sulfate.....	≤ 50 ppm	Na.....	≤1500 ppm		

Code	Size	Packaging	Notes
471025	250 g	Plastic bottle	
471027	1 kg	Plastic bottle	

### Potassium citrate tribasic monohydrate > ERBapharm - According to pharmacopoeia: Ph.Eur.-USP-Ph. Franc.-BP

ERBapharm

Description ..... White crystalline powder  
Identification ..... Positive  
Appearance of solution ..... Conform Ph.Eur.  
Acidity or alkalinity..... Conform Ph.Eur.  
Ready carbonizable substances..... Conform

Ph.Eur.	Chloride.....	≤50 ppm	Assay (non-aqueous medium) .99.0 ÷ 101.0 % s.s.
Tartrate..... Conform USP-NF	Heavy metals (Pb).....	≤10 ppm	
Organic volatile impurities Conform USP-NF	Oxalate.....	≤300 ppm	
Water (K.F.)..... 4.0 ÷ 7.0 %	Sulphate.....	≤150 ppm	
Loss on drying ..... 3.0 ÷ 6.0 %	Na.....	≤0.3 %	

Code	Size	Packaging	Notes
359956	500 g	Plastic bottle	
359957	1 kg	Plastic bottle	
359958	2.5 kg	Plastic bottle	
359959	5 kg	Plastic tank	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade





## Potassium dichromate

• Potassio bicromato • Potassium dichromate • Potasio dicromato • Kaliumdichromat



Molecular Weight: 294,19  
CAS: 7778-50-9  
EEC-N: 231-906-6

### Classification transport

ONU: 3086  
Transport Hazard class: 6.1  
Packing group I



### Danger

H272-H301-H312-H330-H314-H334-H317-H340-  
H350-H360FD-H372-H410-HA26  
P210-P280-P284-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P342+P311a-P403+P233

### Potassium dichromate > RPE - For analysis

RPE

Description ..... Orange crystals    Chloride ..... ≤ 10 ppm    Fe ..... ≤ 10 ppm  
Identification ..... Positive    Sulphate ..... ≤ 50 ppm    Na ..... ≤ 200 ppm  
Loss on drying at 105°C ..... ≤ 0.05 %    Ca ..... ≤ 30 ppm    Assay (oxydometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
470336	500 g	Plastic bottle	
470337	1 kg	Plastic bottle	



## Potassium dichromate - Sulfuric acid solution

• Potassio bicromato - Soluzione di acido solforico • Potassium dichromate - Solution dans l'acide sulfurique • Potasio dicromato - Solución de ácido sulfúrico • Kaliumdichromat - Lösung in Schwefelsäure

HEU203

### Potassium dichromate - Sulfuric acid solution > RS - For analysis according to Ph. Eur.Chap. 2.2.25

RS

Code	Size	Packaging	Notes
506442	2 x 10 ml	Sealed cuvette	conc. 60 mg/l
506452	2 x 10 ml	Sealed cuvette	conc. 600 mg/l
506443	100 ml	Glass bottle	conc. 60 mg/l
506453	100 ml	Glass bottle	conc. 600 mg/l



## Potassium dichromate solution 0.5%

• Potassio bicromato soluzione 0.5% • Potassium dichromate solution 0.5% • Potasio dicromato solución 0.5% • Kaliumdichromatlösung 0.5%



Molecular Weight: 294,19  
CAS: 7778-50-9  
EEC-N: 231-906-6



### Danger

H340-H350-H360FD-H412-HEU203-HEU208-HA26  
P201-P273-P280-P308+P313-P405-P501a

### Potassium dichromate solution 0.5% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069509	100 ml	Plastic bottle	Potassium dichromate solution R1 Ref Ph.Eur 1069502
611069502	1 l	Plastic bottle	Potassium dichromate solution R1 Ref Ph.Eur 1069502



## Potassium dichromate 0.167 mol/l (1N)

• Potassio bicromato 0.167 mol/l (1 N) • Potassium dichromate 0.167 mol/l (1 N) • Potasio dicromato 0.167 mol/l (1 N) • Kaliumdichromat 0.167 mol/l (1N)



Molecular Weight: 294,19  
CAS: 7778-50-9

### Classification transport

ONU: 3082  
Transport Hazard class: 9  
Packing group III



### Danger

H302-H332-H315-H319-H334-H317-H340-H350-  
H360FD-H373-H411-HA26  
P271-P280-P284-P304+P340-P305+P351+P338-  
P342+P311a

### Potassium dichromate 0.167 mol/l (1N) > RPE - For analysis

RPE

Code	Size	Packaging	Notes
507536	1 l	Glass bottle	



## Potassium dichromate 0.0417 mol/l (0.25N)

- Potassio bicomato 0.0417 mol/l (0.25N) • Potassium dichromate 0.0417 mol/l (0.25N) • Potasio dicromato 0.0417 mol/l (0.25N)
- Kaliumdichromat 0.0417 mol/l (0.25N)



Molecular Weight: 294,19  
CAS: 7778-50-9

### Classification transport

ONU: 3082  
Transport Hazard class: 9  
Packing group III



### Danger

H302-H332-H315-H319-H334-H317-H340-H350-  
H360FD-H373-H411-HA26  
P271-P280-P284-P304+P340-P305+P351+P338-  
P342+P311a

## Potassium dichromate 0.0417 mol/l (0.25N) > RS - For environmental analysis (COD determination)

RS

Description ..... Orange clear liquid Assay (potentiometry) ..... 0.2495 - 0.2505 N

Code	Size	Packaging	Notes
470451	1 l	Glass bottle	

Content is guaranteed for standardized volumes at 20 °C



## Potassium dichromate 0.04 mol/l (0.24N) in 80 g/l HgSO<sub>4</sub>

- Potassio bicomato 0.04 mol/l (0.24N) in 80 g/l HgSO<sub>4</sub> • Potassium dichromate 0.04 mol/l (0.24N) dans 80 g/l HgSO<sub>4</sub>
- Potasio dicromato 0.04 mol/l (0.24N) en 80 g/l HgSO<sub>4</sub> • Kaliumdichromat 0.04 mol/l(0.24N) in 80 g/l HgSO<sub>4</sub>



Molecular Weight: 294,18  
CAS: 7778-50-9

### Classification transport

ONU: 2922  
Transport Hazard class: 8  
Packing group II



### Danger

H290-H302-H331-H314-H334-H317-H340-H350-  
H360FD-H373-H411-HA26  
P280-P284-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P362+P364-  
P342+P311a-P403+P233

## Potassium dichromate 0.04 mol/l (0.24N) in 80 g/l HgSO<sub>4</sub> > RS - For environmental analysis (COD determination)

RS

Assay ..... 0,0398 ÷ 0,0402 mol/L

Code	Size	Packaging	Notes
526711	1 l	Glass bottle	
526712	2.5 l	Glass bottle	



## Potassium dichromate 0.0167 mol/l (0.1N)

- Potassio bicomato 0.0167 mol/l (0.1 N) • Potassium dichromate 0.0167 mol/l (0.1 N) • Potasio dicromato 0.0167 mol/l (0.1 N)
- Kaliumdichromat 0.0167 mol/l (0.1N)



Molecular Weight: 294,19  
CAS: 7778-50-9



### Danger

H340-H350-H360FD-H412-HEU203-HEU208-HA26  
P201-P273-P280-P308+P313-P405-P501a

## Potassium dichromate 0.0167 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613004600	1 l	Plastic bottle	Ref Ph.Eur 3004600

## Potassium dichromate 0.0167 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Orange clear liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
470501		Glass ampoule	Volume: 60 ml

Volumetric concentrated solution to prepare 1 L of solution 0,1 N



## Potassium dichromate solution 106 g/l

• Potassio bicromato soluzione 106 g/l • Potassium dichromate solution 106g/l • Potasio dicromato solución 106 g/l • Kaliumdichromatlösung 106 g/l



Molecular Weight: 294,18

CAS: 7778-50-9

### Classification transport

ONU: 3287

Transport Hazard class: 6.1

Packing group II



### Danger

H301-H330-H314-H334-H317-H340-H350-H360FD-  
H335-H372-H411-HA26  
P280-P284-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P342+P311a-  
P403+P233

### Potassium dichromate solution 106 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069501	1 l	Plastic bottle	Ref Ph.Eur 1069501



## Potassium dichromate 0.1414 g/l

• Potassio bicromato 0.1414 g/l • Potassium dichromate 0.1414 g/l • Potasio dicromato 0.1414 g/l • Kaliumdichromat 0.1414 g/l



Molecular Weight: 294,18

CAS: 7778-50-9

HEU203

### Potassium dichromate 0.1414 g/l > RS - For analysis

RS

Code	Size	Packaging	Notes
504594	1 l	Plastic bottle	

Potassium dihydrogen phosphate ► Potassium phosphate monobasic

Potassium disulfate ► Potassium pyrosulphate

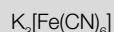


## Potassium ferricyanide

• Potassio ferricianuro • Potassium ferricyanure • Potasio ferricianuro • Kaliumferricyanid

Synonym:

- Potassium hexacyanoferrate(III)
- Red prussiate



Molecular Weight: 329,24

CAS: 13746-66-2

EEC-N: 237-323-3

HEU032

### Potassium ferricyanide > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069700	500 g	Glass bottle	Ref Ph.Eur 1069800

### Potassium ferricyanide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Red orange crystals      Water-insoluble matter ..... ≤50 ppm      Ferrocyanide ..... ≤500 ppm      Assay (oxidimetric) ..... ≥99.0 %  
Identification ..... Positive      Chloride ..... ≤100 ppm      Sulphate ..... ≤100 ppm

Code	Size	Packaging	Notes
471364	100 g	Plastic bottle	
471365	250 g	Plastic bottle	
471367	1 kg	Plastic bottle	

## Potassium ferricyanide > RE - Pure

**RE**

Description ..... Red orange crystals      Water insoluble substances ..... ≤ 0.1 %      KCl ..... ≤ 0.3 %  
 Moisture ..... ≤ 0.1 %       $K_4Fe(CN)_6 \cdot 3H_2O$  ..... ≤ 0.35 %      Assay ( $K_3Fe(CN)_6$ ) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
360257	1 kg	Plastic bottle	
360258	5 kg	Plastic tank	
360252	25 kg	Plastic bucket	



## Potassium ferrocyanide trihydrate

• Potassio ferrocianuro triidrato • Potassium ferrocyanure trihydraté • Potasio ferrocianuro trihidrato  
 • Kaliumferrocyanid-Trihydrat

Synonym:

- Potassium hexacyanoferrate(II) trihydrate
- Yellow prussiate

$K_4[Fe(CN)_6] \cdot 3H_2O$   
 Molecular Weight: 368,34  
 CAS: 14459-95-1  
 EEC-N: 237-722-2

HEU032

## Potassium ferrocyanide trihydrate > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611069800	500 g	Glass bottle	Ref Ph.Eur 1069800

## Potassium ferrocyanide trihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... Yellow crystals      Chloride ..... ≤ 100 ppm      Sulphate ..... Conform ACS  
 Identification ..... Positive      Water-insoluble matter ..... ≤ 50 ppm      Assay (oxidimetric) ..... 98.5 ÷ 102.0 %

Code	Size	Packaging	Notes
471484	100 g	Plastic bottle	
471485	250 g	Plastic bottle	
471487	1 kg	Plastic bottle	
471488	2.5 kg	Plastic bottle	
471483	25 kg	Drum	

## Potassium ferrocyanide trihydrate > RE - Pure

**RE**

Description ..... Yellow crystals      Identification ..... Positive      Water-insoluble matter ..... ≤ 0.1 %      Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
360557	1 kg	Plastic bottle	
360558	5 kg	Plastic tank	
360552	25 kg	Plastic bucket	



## Potassium ferrocyanide solution 10%

• Potassio ferrocianuro soluzione 10% • Potassium ferrocyanure solution 10% • Potasio ferrocianuro solución 10% • Kaliumferrocyanidlösung 10%

$K_4Fe(CN)_6 \cdot 3H_2O$   
 Molecular Weight: 422,41  
 CAS: 14459-95-1

HEU032

## Potassium ferrocyanide solution 10% > RPE - For analysis

**RPE**

Description ..... Yellow clear liquid      Identification ..... Positive      Density at 20° C ..... ≥ 1.06      Assay (oxidimetric) ..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E471501	1 l	Glass bottle	



## Potassium ferrocyanide solution 53 g/l

• Potassio ferricianuro soluzione 53 g/l • Potassium ferrocyanure solution 53 g/l • Potasio ferrocianuro solución 53 g/l • Kaliumferrocyanidlösung 53 g / l

$K_4Fe(CN)_6 \cdot 3H_2O$   
Molecular Weight: 422,41  
CAS: 14459-95-1

HEU032

### Potassium ferrocyanide solution 53 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069801	100 ml	Plastic bottle	Ref Ph.Eur 1069801



## Potassium fluoride

• Potassio fluoruro • Potassium fluorure • Potasio fluoruro • Kaliumfluorid

KF  
Molecular Weight: 58,1  
CAS: 7789-23-3  
EEC-N: 232-151-5

**Classification transport**  
ONU: 1812  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H311-H331  
P261-P304+P340-P311a-P330-P361+P364-P403+P233

### Potassium fluoride > RPE - For analysis

RPE

Description .....	White powder	Water not sol. matter .....	≤0.01 %	Sulphite .....	≤100 ppm	Ni .....	≤20 ppm
Identification .....	Positive	Chloride .....	≤0.05 %	Heavy metals (Pb) .....	≤20 ppm	Pb .....	≤20 ppm
Acidity (Hydrofluor ac) .....	≤0.1 %	Fluosilicates .....	≤0.05 %	Cu .....	≤20 ppm	Zn .....	≤20 ppm
Alcalinity (as K <sub>2</sub> CO <sub>3</sub> ) .....	≤ 0.1 %	Sulphate .....	≤100 ppm	Fe .....	≤10 ppm	Assay (non-aqueous medium) .....	≥98.0 %

Code	Size	Packaging	Notes
471564	100 g	Plastic bottle	
471561	250 g	Plastic bottle	
471562	1 kg	Plastic bottle	
471563	10 kg	Plastic bucket	



## Potassium fluoride dihydrate

• Potassio fluoruro biidrato • Potassium fluorure dihydraté • Potasio fluoruro dihidrato • Kaliumfluorid-Dihydrat

KF<sub>2</sub>H<sub>2</sub>O  
Molecular Weight: 94,13  
CAS: 13455-21-5  
EEC-N: 232-151-5

**Classification transport**  
ONU: 1812  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H311-H331  
P261-P304+P340-P311a-P330-P361+P364-P403+P233

### Potassium fluoride dihydrate > RPE - For analysis

RPE

Description .....	White crystals	Identification .....	Positive	Assay .....	≥ 98.5 %
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Code	Size	Packaging	Notes
471555	250 g	Plastic bottle	



## Potassium guaiacolsulfonate

• Potassio solfogaiaicolato • Potassium sulfogaiaicolate • Potasio sulfoguayacolato • Kaliumguajacolsulfonat

$C_7H_7KO_6S$   
Molecular Weight: 242,29  
CAS: 1321-14-8  
EEC-N: 215-314-5

### Potassium guaiacolsulfonate > RE - Pure

RE

Description .....	White crystalline powder	Water (K.F.) .....	≤6.0 %	Heavy metals (Pb) .....	≤20 ppm	Assay (non-aqueous medium) .....	≥95.5 %
Identification .....	Positive	Guaiacol (TLC) .....	≤0.5 %	Sulphate .....	≤200 ppm		

Code	Size	Packaging	Notes
363807	1 kg	Plastic bottle	



## di-Potassium hexachloroplatinate

• di-Potassio esacloroplatinato • Potassium chloroplatinate • Di-Potasio hexacloroplatinato  
• Dikaliumhexachloroplatinat

Synonym:  
*Potassium hexachloroplatinate(IV)*

$K_2PtCl_6$   
Molecular Weight: 486,01  
CAS: 16921-30-5  
EEC-N: 240-979-3

**Classification transport**  
ONU: 3290  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H318-H334-H317  
P261-P284-P301+P310a-P304+P340-  
P305+P351+P338-P342+P311a

### di-Potassium hexachloroplatinate > RPE - For analysis

**RPE**

Description .....	Yellow powder	Ca .....	≤ 20 ppm	Mg .....	≤ 20 ppm	Ru .....	≤ 20 ppm
Identification .....	Positive	Cu .....	≤ 10 ppm	Pd .....	≤ 20 ppm	Si .....	≤ 20 ppm
Ag .....	≤ 20 ppm	Fe .....	≤ 20 ppm	Pb .....	≤ 20 ppm	Assay (gravimetric) .....	40 ÷ 40.2 % Pt
Au .....	≤ 20 ppm	Ir .....	≤ 20 ppm	Rh .....	≤ 20 ppm		

Code	Size	Packaging	Notes
471127	1 g	Glass ampoule	

Potassium hexacyanoferrate(III) ▶ Potassium ferricyanide

Potassium hexacyanoferrate(II) trihydrate ▶ Potassium ferrocyanide trihydrate

Potassium hydrogen carbonate ▶ Potassium bicarbonate



## Potassium hydrogen iodate

• Potassio iodato acido • Potassium iodate acide • Potasio yodato acido • Kaliumjodatsäure

Synonym:  
*Potassium biiodate*

$KIO_3 \cdot HIO_3$   
Molecular Weight: 389,92  
CAS: 13455-24-8  
EEC-N: 236-650-9

**Classification transport**  
ONU: 3085  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H314  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Potassium hydrogen iodate > RPE - For analysis

**RPE**

Description .....	White crystalline powder	Br-BrO3-Cl-ClO3 (Cl) .....	≤ 500 ppm	Fe .....	≤ 20 ppm	Assay (oxidimetric) .....	≥ 99 %
Identification .....	Positive	Sulphate .....	≤ 100 ppm	Ni .....	≤ 20 ppm		
Water-insoluble matter .....	≤ 500 ppm	Cu .....	≤ 20 ppm	Pb .....	≤ 20 ppm		

Code	Size	Packaging	Notes
472641	50 g	Glass bottle	

di-Potassium hydrogen phosphate ▶ Potassium phosphate dibasic anhydrous

di-Potassium hydrogen phosphate trihydrate ▶ Potassium phosphate dibasic trihydrate



## Potassium hydrogen phthalate

• Potassio ftalato acido • Potassium phthalate acide • Potasio ftalato acido • Kaliumphthalsäure

Synonym:  
• Phthalic acid monopotassium salt  
• Potassium biphtalate

$HOOC_6H_4COOK$   
Molecular Weight: 204,23  
CAS: 877-24-7  
EEC-N: 212-889-4

### Potassium hydrogen phthalate > RS - For analysis according to Ph. Eur. Chap. 4.2.1

**RS**

Code	Size	Packaging	Notes
612000400	50 g	Plastic bottle	Ref Ph.Eur 2000400



## Potassium hydrogen phthalate > RS - For volumetry and pHmetry

**RS**

Description ..... White crystals Identification ..... Positive pH sol. M/20 at 25° C ..... 4.001 ÷ 4.011 Assay ..... ≥ 99.5 %

Code	Size	Packaging	Notes
471913	25 g	Glass bottle	

## Potassium hydrogen phthalate > RPE - For analysis

**RPE**

Description ..... White crystals Heavy metals (Pb)..... ≤5 ppm Cu ..... ≤5 ppm Pb ..... ≤5 ppm  
 Identification ..... Positive Total sulphur ..... ≤20 ppm Fe ..... ≤5 ppm Zn ..... ≤5 ppm  
 Loss on drying (110°C)..... ≤500 ppm Ca ..... ≤10 ppm Mg ..... ≤10 ppm Assay (acidimetric) ..... ≥99.5 %  
 Total nitrogen ..... ≤10 ppm Cd ..... ≤5 ppm Mn ..... ≤5 ppm  
 Chloride ..... ≤20 ppm Co ..... ≤5 ppm Na ..... ≤100 ppm  
 Water-insoluble matter ..... ≤30 ppm Cr ..... ≤10 ppm Ni ..... ≤5 ppm

Code	Size	Packaging	Notes
471865	250 g	Plastic bottle	
471866	1 kg	Plastic bottle	
471867	2.5 kg	Plastic bottle	



## Potassium hydrogen phthalate 0.2 mol/l (0.2N)

- Potassio ftalato acido 0.2 mol/l (0.2N) • Potassium phthalate acide 0.2 mol/l (0.2N)
- Potasio ftalato acido 0.2 mol/l (0.2N) • Kaliumphthalsäure 0.2 mol/l (0.2N)

Synonym:

- Phthalic acid monopotassium salt
- Potassium biphtalate

HOOC<sub>6</sub>H<sub>4</sub>COOK  
 Molecular Weight: 204,23  
 CAS: 877-24-7

## Potassium hydrogen phthalate 0.2 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611070001	1 l	Plastic bottle	Ref Ph.Eur 1070001



## Potassium hydrogen phthalate 0.1 mol/l (0.1N)

- Potassio ftalato acido 0.1 mol/l (0.1N) • Potassium phthalate acide 0.1 mol/l (0.1N)
- Potasio ftalato acido 0.1 mol/l (0.1N) • Kaliumphthalsäure 0.1 mol/l (0.1N)

Synonym:

- Phthalic acid monopotassium salt
- Potassium biphtalate

HOOC<sub>6</sub>H<sub>4</sub>COOK  
 Molecular Weight: 204,23  
 CAS: 877-24-7

### Classification transport

ONU: 2789  
 Transport Hazard class: 8  
 Packing group II



### Danger

H226-H314  
 P210-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## Potassium hydrogen phthalate 0.1 mol/l (0.1N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E471926	500 ml	Bottle	

**Ready-to-use solution in acetic anhydride**

## Potassium hydrogen sulfate ► Potassium bisulfate



## Potassium hydroxide, flakes

- Potassio idrossido, scaglie • Potassium hydroxyde, écailles • Potasio hidróxido, escamas
- Kaliumhydroxid, Flocken

Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3  
EEC-N: 215-181-3

**Classification transport**  
ONU: 1813  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H302-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Potassium hydroxide, flakes > ERBApharm - According to pharmacopoeia: BP-Ph.Eur.

**ERBApharm**

Description ..... White flakes      Carbonate..... ≤ 2.0 %      Heavy metals (Pb)..... ≤ 10 ppm      Na..... ≤ 1.0 %  
Identification ..... Positive      Chloride..... ≤ 200 ppm      Sulphate..... ≤ 200 ppm      Assay (total alkalin.)..... 85.0 ÷ 100.5 %  
Appearance of solution ..... Conform Ph.Eur.      Phosphate ..... ≤ 100 ppm      Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
362201	25 kg	Sack	
362202	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

### Potassium hydroxide, flakes > RE - Pure

**RE**

Description ..... White flakes      Chloride..... ≤ 80 ppm      Na (NaOH)..... ≤ 0.9 %      Assay (acidimetric) ..... ≥ 85 %  
Identification ..... Positive      Potassio carbonato..... ≤ 1 %      Sulphate..... ≤ 20 ppm

Code	Size	Packaging	Notes
362257	1 kg	Plastic bottle	
362258	5 kg	Plastic tank	
362251	25 kg	Sack	



## Potassium hydroxide, pellets

- Potassio idrossido, gocce • Potassium hydroxyde, pastilles • Potasio hidróxido, gotas
- Kaliumhydroxid, Pellets

Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3  
EEC-N: 215-181-3

**Classification transport**  
ONU: 1813  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H302-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Potassium hydroxide, pellets > RS - RSE - For electronic use

**RS**

Description ..... White pellets      Heavy metals (Pb)..... ≤ 2 ppm      Cu ..... ≤ 0.5 ppm      Ni ..... ≤ 1 ppm  
Identification ..... Positive      Silicate ..... ≤ 15 ppm      Fe ..... ≤ 5 ppm      Pb ..... ≤ 1 ppm  
Total nitrogen ..... ≤ 3 ppm      Sulphate ..... ≤ 5 ppm      Hg ..... ≤ 0.1 ppm      Zn ..... ≤ 1 ppm  
Carbonate..... ≤ 5000 ppm      As ..... ≤ 5 ppm      Mg ..... ≤ 5 ppm      Assay (alkalimetric)..... ≥ 86 %  
Chloride..... ≤ 10 ppm      Ca ..... ≤ 5 ppm      Mn ..... ≤ 0.1 ppm  
Phosphate ..... ≤ 5 ppm      Cd..... ≤ 0.1 ppm      Na..... ≤ 300 ppm

Code	Size	Packaging	Notes
472097	1 kg	Plastic bottle	
472092	5 kg	Plastic jar	

### Potassium hydroxide, pellets > RS - For microanalysis

**RS**

Description ..... White pellets      Identification ..... Positive

Code	Size	Packaging	Notes
472086	500 g	Plastic bottle	

## Potassium hydroxide, pellets > RPE - For analysis - ACS - ISO

**RPE**

Description .....	White pellets	Carbonate.....	≤ 2.0 %	Heavy metals (Ag) .....	≤ 10 ppm	Assay (alkalimetric).....	≥ 85 %
Identification .....	Positive	Chloride.....	≤ 100 ppm	Fe .....	≤ 10 ppm	Mg .....	≤ 20 ppm
Ca .....	≤ 50 ppm	Phosphate .....	≤ 5 ppm	Na .....	≤ 500 ppm		
Total nitrogen.....	≤ 10 ppm	Sulphate.....	≤ 30 ppm	Ni.....	≤ 10 ppm		

Code	Size	Packaging	Notes
472171	100 g	Plastic bottle	
472172	500 g	Plastic bottle	
472173	1 kg	Plastic bottle	
472175	5 kg	Plastic jar	

**Low content in sodium**

## Potassium hydroxide, pellets > RPE - For analysis

**RPE**

Description .....	White pellets	Phosphate .....	≤ 4 ppm	Ca .....	≤ 10 ppm	Cu.....	≤ 5 ppm
Identification .....	Positive	Silicate .....	≤ 5 ppm	Insoluble in water .....	≤ 50 ppm	Zn .....	≤ 5 ppm
Total nitrogen.....	≤ 5 ppm	Sulphate.....	≤ 10 ppm	Heavy metals (as Pb) .....	≤ 5 ppm		
Carbonate.....	≤ 0.6 %	Ag .....	≤ 0.5 ppm	Precipitable with NH <sub>4</sub> OH.....	≤ 100 ppm		
Chloride.....	≤ 10 ppm	Al .....	≤ 10 ppm	As .....	≤ 1 ppm		

Code	Size	Packaging	Notes
472057	1 kg	Plastic bottle	
472059	5 kg	Plastic jar	
472056	25 kg	Plastic bucket	

## Potassium hydroxide, pellets > ERBapharm - According to pharmacopeia: FU-Ph.Eur.

**ERBapharm**

Description .....	White pellets	Na .....	≤ 1.0 %	Phosphate .....	≤ 100 ppm	Fe .....	≤ 10 ppm
Identification .....	Positive	Carbonate.....	≤ 2.0 %	Heavy metals (Pb).....	≤ 10 ppm	Titolo (alcalinità totale) .....	85.0 ÷ 100.5 %
Appearance of solution.....	Conform Ph.Eur.	Chloride.....	≤ 200 ppm	Sulphate .....	≤ 200 ppm		

Code	Size	Packaging	Notes
362237	1 kg	Plastic bottle	
362239	5 kg	Plastic tank	
362235	25 kg	Sack	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**


## Potassium hydroxide solution 45%

- Potassio idrossido soluzione 45% • Potassium hydroxyde solution 45% • Potasio hidróxido solución 45%
- Kaliumhydroxid 45%

 Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3

**Classification transport**  
ONU: 1814  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

## Potassium hydroxide solution 45% > RS - RSE - For electronic use

**RS**

Description .....	Clear liquid	Ni .....	≤ 1 ppm	Sulphate.....	≤ 3 ppm	Mg .....	≤ 3 ppm
Colour (APHA) .....	≤ 20	Assay (acidimetric) .....	45.0 ÷ 46.0 %	Silicate .....	≤ 10 ppm	Mn .....	≤ 0.5 ppm
Carbonate.....	≤ 1.0 %	Subst. ppt by NH <sub>4</sub> OH.....	≤ 50 ppm	Heavy metals (Pb).....	≤ 3 ppm	Hg .....	≤ 0.05 ppm
Cr .....	≤ 1 ppm	Total nitrogen.....	≤ 0.5 ppm	Al .....	≤ 1 ppm	Pb .....	≤ 1 ppm
Cu .....	≤ 0.5 ppm	Chloride.....	≤ 5 ppm	As .....	≤ 0.5 ppm	Zn .....	≤ 1 ppm
Fe .....	≤ 1 ppm	Phosphate .....	≤ 3 ppm	Ca .....	≤ 3 ppm		

Code	Size	Packaging	Notes
472103	5 l	Plastic tank	



## Potassium hydroxide solution 38% (40° Bé) in water

- Potassio idrossido soluzione 38% (40° Bé) in acqua • Potassium hydroxyde 38% (40° Bé)
- Potasio hidróxido solución 38% (40° Bé) en agua • Kaliumhydroxid 38% (40° Bé) in Wasser

Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3

**Classification transport**  
ONU: 1814  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Potassium hydroxide solution 38% (40° Bé) in water > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Nitrogen compounds (N) ..... ≤10 ppm    Subst. ppt by NH<sub>4</sub>OH ..... ≤200 ppm    Fe ..... ≤5 ppm  
Carbonate ..... ≤1.5 %    Phosphate ..... ≤10 ppm    Silicate ..... ≤100 ppm    Assay ..... 38 - 40 %  
Chloride ..... ≤40 ppm    Heavy metals (Pb) ..... ≤20 ppm    Sulphate ..... ≤20 ppm

Code	Size	Packaging	Notes
E472151	1 l	Plastic bottle	
E472152	35 kg	Plastic drum	



## Potassium hydroxide solution 33%

- Potassio idrossido soluzione 33% • Potassium hydroxyde 33% • Potasio hidróxido solución 33% • Kaliumhydroxid 33%

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3

**Classification transport**  
ONU: 1814  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Potassium hydroxide solution 33% > RS - For analysis

RS

Code	Size	Packaging	Notes
PS0766/22	5 l	Plastic tank	



## Potassium hydroxide solution 28%

- Potassio idrossido soluzione 28% • Potassium hydroxyde 28% • Potasio hidróxido solución 28%
- Kaliumhydroxid 28%

Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3

**Classification transport**  
ONU: 1814  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Potassium hydroxide solution 28% > RS - For gas analysis according to Orsat

RS

Description ..... Clear colourless liquid    Identification ..... Positive    Density at 20° C ..... ~ 1.27    Assay (alkalimetric) ..... 27 ÷ 29 %

Code	Size	Packaging	Notes
E472221	1 l	Plastic bottle	



## Potassium hydroxide solution 3% in ethanol

- Potassio idrossido soluzione 3% in etanolo • Potassium hydroxyde solution 3% dans l'ethanol
- Potasio hidróxido solución 3% en etanol • Kaliumhydroxidlösung 3% in Ethanol

Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3

**Classification transport**  
ONU: 2920

### Potassium hydroxide solution 3% in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070303	100 ml	Glass bottle	Ref Ph.Eur 1070303

**Potassium hydroxide 2 mol/l (2N) in ethanol**  
 • Potassio idrossido 2 mol/l (2N) in etanolo • Potassium hydroxyde 2 mol/l (2N) dans l'ethanol  
 • Potasio hidróxido 2 mol/l (2N) en etanol • Kaliumhydroxid 2 mol / l (2N) in Ethanol

Synonym:  
Caustic potash

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 2733 Transport Hazard class: 3 Packing group II	 	<b>Danger</b> H225-H314 P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338
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**Potassium hydroxide 2 mol/l (2N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611070301	100 ml	Plastic bottle	Ref Ph.Eur 1070301

**Potassium hydroxide 1 mol/l (1N)**  
 • Potassio idrossido 1 mol/l (1N) • Potassium hydroxyde 1 mol/l (1N) • Potasio hidróxido 1 mol/l (1N)  
 • Kaliumhydroxid 1 mol/l (1N)

Synonym:  
Caustic potash

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 1814 Transport Hazard class: 8 Packing group II		<b>Danger</b> H314 P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338
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**Potassium hydroxide 1 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613009100	1 l	Plastic bottle	Ref Ph.Eur 3009100

**Potassium hydroxide 1 mol/l (1N) > RPE - For analysis**

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 84 .....

Code	Size	Packaging	Notes
472287000	1 l	Plastic bottle	Certified with NIST traceability
472282000	5 l	Kubidos	Certified with NIST traceability
472281000	10 l	Kubidos	Certified with NIST traceability

**56.11 g of KOH. Volumetric solution ready-to-use. Content is guaranteed for standardized volumes at 20°C.**

**Potassium hydroxide 1 mol/l (1N) > RPE - NORMEX - For analysis**

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472311		Plastic ampoule	Volume: 165 ml

**56,11 g of KOH. Volumetric concentrated solution to prepare 1 L of solution 1 N**

**Potassium hydroxide 0.5 mol/l (0.5N)**  
 • Potassio idrossido 0.5 mol/l (0.5N) • Potassium hydroxyde 0.5 mol/l (0.5N)  
 • Potasio hidróxido 0.5 mol/l (0.5N) • Kaliumhydroxid 0.5 mol/l (0.5N)

Synonym:  
Caustic potash

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 1814 Transport Hazard class: 8 Packing group II	 	<b>Danger</b> H302-H314 P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338
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**Potassium hydroxide 0.5 mol/l (0.5N) > RPE - For analysis**

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 84 .....

Code	Size	Packaging	Notes
472337000	1 l	Plastic bottle	Certified with NIST traceability
472332000	5 l	Kubidos	Certified with NIST traceability
472331000	10 l	Kubidos	Certified with NIST traceability

**28.055 g of KOH. Volumetric solution ready-to-use.**

## Potassium hydroxide 0.5 mol/l (0.5N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472391		Plastic ampoule	Volume: 55 ml

**28,055 g of KOH. Volumetric concentrated solution to prepare 1 L of solution 0,5 N**


## Potassium hydroxide 0.5 mol/l (0.5N) in ethanol

- Potassio idrossido 0.5 mol/l (0.5N) in alcóle etílico • Potassium hydroxyde 0.5 mol/l (0.5N) dans l'éthanol
- Potassium hydroxide 0.5 mol/l (0.5N) in ethanol • Kaliumhydroxid 0.5 mol/l (0.5N) in ethanol

 Synonym:  
Caustic potash

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 2924 Transport Hazard class: 3 Packing group II	 	<b>Danger</b> H225-H314 P210-P280-P301+P330+P331-P303+P361+P353- P304+P340-P310a-P305+P351+P338
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## Potassium hydroxide 0.5 mol/l (0.5N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613004900	1 l	Glass bottle	Ref Ph.Eur 3004900

## Potassium hydroxide 0.5 mol/l (0.5N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611070302	1 l	Glass bottle	Ref Ph.Eur 1070302

## Potassium hydroxide 0.5 mol/l (0.5N) in ethanol > RPE - For analysis

**RPE**

Description ..... Colourless to orange liquid    Assay (potentiometry) ..... 0.499 - 0.501 N    NIST 84 .....

Code	Size	Packaging	Notes
472021000	1 l	Plastic bottle	Certified with NIST traceability
472022000	1 l	Glass bottle	Certified with NIST traceability

**28.055 g of KOH. Volumetric solution ready-to-use**


## Potassium hydroxide 0.5 mol/l (0.5N) in methanol

- Potassio idrossido 0.5 mol/l (0.5N) in alcóle metilico
- Potassium hydroxyde 0.5 mol/l (0.5N) dans le méthanol • Potasio hidróxido 0.5 mol/l (0.5N) en metanol
- Kaliumhydroxid 0.5 mol/l (0.5N) in methanol

 Synonym:  
Caustic potash

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 3286 Transport Hazard class: 3 Packing group II	  	<b>Danger</b> H225-H301-H314-H370 P210-P280-P301+P330+P331-P303+P361+P353- P304+P340-P305+P351+P338
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## Potassium hydroxide 0.5 mol/l (0.5N) in methanol > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Assay (potentiometry) ..... 0.499 - 0.501 N    NIST 84 .....

Code	Size	Packaging	Notes
472366000	500 ml	Plastic bottle	Certified with NIST traceability
472364000	1 l	Glass bottle	Certified with NIST traceability
472367000	5 l	Plastic tank	Certified with NIST traceability

**28.055 g of KOH. Volumetric solution ready-to-use**



**Potassium hydroxide 0.46 mol/l (0.46N)**  
 • Potassio idrossido 0.46 mol/l (0.46N) • Potassium hydroxyde 0.46 mol/l (0.46N)  
 • Potasio hidróxido 0.46 mol/l (0.46N) • Kaliumhydroxid 0.46 mol/l (0.46N)

Synonym:  
Caustic potash

KOH  
 Molecular Weight: 56,1  
 CAS: 1310-58-3

**Classification transport**  
 ONU: 1814  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H302-H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

**Potassium hydroxide 0.46 mol/l (0.46N) > RS - For agroalimentary analysis**

**RS**

Description ..... Clear colourless liquid    Colour ..... ≤ 10 APHA    Assay ..... 0.455 ÷ 0.465 N

Code	Size	Packaging	Notes
502212	5 l	Plastic tank	

**Potassium hydroxide 0.25 mol/l (0.25N)**  
 • Potassio idrossido 0.25 mol/l (0.25N) • Potassium hydroxyde 0.25 mol/l (0.25N)  
 • Potasio hidróxido 0.25 mol/l (0.25N) • Kaliumhydroxid 0.25 mol/l (0.25N)

Synonym:  
Caustic potash

KOH  
 Molecular Weight: 56,1  
 CAS: 1310-58-3

**Classification transport**  
 ONU: 1814  
 Transport Hazard class: 8  
 Packing group III



**Warning**  
 H315-H319  
 P264-P280a-P305+P351+P338-P332+P313-  
 P362+P364-P337+P313

**Potassium hydroxide 0.25 mol/l (0.25N) > RPE - For analysis**

**RPE**

Description ..... Clear colourless liquid    Assay (potentiometry) ..... 0.2498 - 0.2503 N    NIST 84 .....

Code	Size	Packaging	Notes
472427000	1 l	Plastic bottle	Certified with NIST traceability
472422000	5 l	Kubidos	Certified with NIST traceability
472421000	10 l	Kubidos	Certified with NIST traceability

**14.027 g of KOH. Volumetric solution ready-to-use**

**Potassium hydroxide 0.23 mol/l (0.23N)**  
 • Potassio idrossido 0.23 mol/l (0.23N) • Potassium hydroxyde 0.23 mol/l (0.23N)  
 • Potasio hidróxido 0.23 mol/l (0.23N) • Kaliumhydroxid 0.23 mol/l (0.23N)

Synonym:  
Caustic potash

KOH  
 Molecular Weight: 56,1  
 CAS: 1310-58-3

**Classification transport**  
 ONU: 1814  
 Transport Hazard class: 8  
 Packing group III



**Warning**  
 H315-H319  
 P264-P280a-P305+P351+P338-P332+P313-  
 P362+P364-P337+P313

**Potassium hydroxide 0.23 mol/l (0.23N) > RS - For agroalimentary analysis**

**RS**

Description ..... Clear colourless liquid    Assay ..... 0.225 ÷ 0.235 N    Colour ..... ≤ 10 APHA

Code	Size	Packaging	Notes
502092	5 l	Plastic tank	

**Potassium hydroxide 0.1 mol/l (0.1N)**  
 • Potassio idrossido 0.1 mol/l (0.1N) • Potassium hydroxyde 0.1 mol/l (0.1N)  
 • Potasio hidróxido 0.1 mol/l (0.1N) • Kaliumhydroxid 0.1 mol/l (0.1N)

Synonym:  
Caustic potash

KOH  
 Molecular Weight: 56,1  
 CAS: 1310-58-3

**Classification transport**  
 ONU: 1814  
 Transport Hazard class: 8  
 Packing group III



**Warning**  
 H315-H319  
 P264-P280a-P305+P351+P338-P332+P313-  
 P362+P364-P337+P313

**Potassium hydroxide 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

**RS**

Code	Size	Packaging	Notes
613004800	1 l	Plastic bottle	Ref Ph.Eur 3004800

## Potassium hydroxide 0.1 mol/l (0.1N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 84 .....

Code	Size	Packaging	Notes
472457000	1 l	Plastic bottle	Certified with NIST traceability
472452000	5 l	Kubidos	Certified with NIST traceability
472451000	10 l	Kubidos	Certified with NIST traceability

**5.61 g of KOH. Volumetric solution ready-to-use**

## Potassium hydroxide 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472511		Plastic ampoule	Volume: 55 ml

**5,611 g KOH. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**


## Potassium hydroxide 0.1 mol/l (0.1N) in ethanol

- Potassio idrossido 0.1 mol/l (0.1N) in alcole etilico • Potassium hydroxyde 0.1 mol/l (0.1N) dans l'ethanol
- Potasio hidróxido 0.1 mol/l (0.1N) en etanol • Kaliumhydroxid 0.1 mol/l (0.1N) in ethanol

 Synonym:  
Caustic potash

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 1170 Transport Hazard class: 3 Packing group II	 	<b>Danger</b> H225-H315-H319 P210-P241-P280-P303+P361+P353- P305+P351+P338-P332+P313
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## Potassium hydroxide 0.1 mol/l (0.1N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613005100	1 l	Glass bottle	Ref Ph.Eur 3005100

## Potassium hydroxide 0.1 mol/l (0.1N) in ethanol > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0998 - 0.1002 N NIST 84 .....

Code	Size	Packaging	Notes
472041000	1 l	Glass bottle	Certified with NIST traceability
472042000	1 l	Plastic bottle	Certified with NIST traceability

**5.61 g of KOH. Volumetric solution ready-to-use**


## Potassium hydroxide 0.1 mol/l (0.1N) in methanol

- Potassio idrossido 0.1 mol/l (0.1N) in alcole metilico
- Potassium hydroxyde 0.1 mol/l (0.1N) dans le méthanol • Potasio hidróxido 0.1 mol/l (0.1N) en metanol
- Kaliumhydroxid 0.1 mol/l (0.1N) in methanol

 Synonym:  
Caustic potash

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 1230 Transport Hazard class: 3 Packing group II	  	<b>Danger</b> H225-H301-H311-H331-H315-H319-H370 P210-P280-P303+P361+P353-P304+P340- P305+P351+P338-P403+P233
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## Potassium hydroxide 0.1 mol/l (0.1N) in methanol > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0998 - 0.1002 N NIST 84 .....

Code	Size	Packaging	Notes
472486000	500 ml	Plastic bottle	Certified with NIST traceability
472484000	1 l	Glass bottle	Certified with NIST traceability

**5.61 g of KOH. Volumetric solution ready-to-use**



## Potassium hydroxide in solution

• Potassio idrossido in soluzione • Potassium hydroxyde en solution • Potasio hidróxido en solución • Kaliumhydroxid in Lösung

KOH

Molecular Weight: 56,11

CAS: 1310-58-3

### Classification transport

ONU: 2924

Transport Hazard class: 3

Packing group II



### Danger

H225-H314

P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Potassium hydroxide in solution > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613005001	500 ml	Glass bottle	Ref Ph.Eur 3005001



## Potassium iodate

• Potassio iodato • Potassium iodate • Potasio yodato • Kaliumiodat

KIO<sub>3</sub>

Molecular Weight: 214

CAS: 7758-05-6

EEC-N: 231-831-9

### Classification transport

ONU: 1479

Transport Hazard class: 5.1

Packing group II



### Danger

H272

P210-P220-P280-P370+P378a-P501a

### Potassium iodate > RPE - For analysis

RPE

Description ..... white crystalline powder      Loss on drying ..... ≤ 0.5 %      As ..... ≤ 3 ppm  
 Identification (I.R.) ..... Positive iodide ..... ≤ 20 ppm      Assay (dried base) ..... 99.0 ÷ 101.0 %  
 Acidity or alkalinity ..... Passes test      Heavy metals (Pb) ..... ≤ 20 ppm      SO<sub>4</sub> ..... < 50 ppm

Code	Size	Packaging	Notes
472563	50 g	Glass bottle	
472565	250 g	Glass bottle	



## Potassium iodate 0.05 mol/l (0.3N)

• Potassio iodato 0.05 mol/l (0.3N) • Potassium iodate 0.05 mol/l (0.3N) • Potasio yodato 0.05 mol/l (0.3N) • Kaliumjodat 0.05 mol/l (0.3N)

KIO<sub>3</sub>

Molecular Weight: 214

CAS: 7758-05-6

### Potassium iodate 0.05 mol/l (0.3N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613005200	1 l	Glass bottle	Ref Ph.Eur 3005200



## Potassium iodate 0.0167 mol/l (0.1N)

• Potassio iodato 0.0167 mol/l (0.1N) • Potassium iodate 0.0167 mol/l (0.1N) • Potasio yodato 0.0167 mol/l (0.1N) • Kaliumjodat 0.0167 mol/l (0.1N)

KIO<sub>3</sub>

Molecular Weight: 214

CAS: 7758-05-6

### Potassium iodate 0.0167 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid      Identification ..... Positive      Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472601		Glass ampoule	Volume: 60 ml

**Volumetric concentrated solution to prepare 1 L of solution 0.1 N**



## Potassium iodate 0.00167 mol/l (0.01N)

- Potassio iodato 0.00167 mol/l (0.01N) • Potassium iodate 0.00167 mol/l (0.01N) • Potasio yodato 0.00167 mol/l (0.01N)
- Kaliumjodat 0.00167 mol/l (0.01N)

KIO<sub>3</sub>  
Molecular Weight: 214  
CAS: 7758-05-6

### Potassium iodate 0.00167 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472631		Glass ampoule	Volume: 60 ml

**0,3567 g KIO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**



## Potassium iodide

- Potassio ioduro • Potassium iodure • Potasio yoduro • Kaliumiodid

KI  
Molecular Weight: 166,01  
CAS: 7681-11-0  
EEC-N: 231-659-4



**Danger**  
H372  
P260-P264-P270-P314-P501a

### Potassium iodide > RS - For microanalysis

RS

Description ..... White cryst. powder Identification ..... Positive

Code	Size	Packaging	Notes
472821	100 g	Glass bottle	

### Potassium iodide > RPE - For analysis - ACS

RPE

Description ..... White or colourless solid Water-insoluble matter ..... ≤ 50 ppm Sulphate ..... ≤ 50 ppm Fe ..... ≤ 3 ppm  
Identification ..... Positive Chloride + bromide (Cl) ..... ≤ 100 ppm Heavy metals (Pb) ..... ≤ 5 ppm Mg ..... ≤ 10 ppm  
pH sol. 5% at 25° C ..... 6.0 ÷ 9.2 Iodate ..... ≤ 3 ppm Ba ..... ≤ 20 ppm Na ..... ≤ 50 ppm  
Loss on drying at 150°C ..... ≤ 0.2 % Phosphate ..... ≤ 10 ppm Ca ..... ≤ 20 ppm Assay (oxidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
472735	250 g	Plastic bottle	
472737	1 kg	Plastic bottle	
472736	25 kg	Plastic bucket	

### Potassium iodide > ERBapharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBapharm

Description Polvere bianca o quasi, o cristalli incolori Alcalinity ..... Conform Ph.Eur. Loss on drying ..... ≤ 1.0 % Fe ..... ≤ 20 ppm  
Identification ..... Positive Thiosulphate ..... Conform Ph.Eur. Iodate ..... ≤ 4 ppm Assay (oxidimetric) ..... 99.0 ÷ 100.5 % s.s.  
Appearance of solution ..... Conform Ph.Eur. Nitrat.nitrit.and NH<sub>4</sub>OH .... Conform USP-NF Heavy metals (Pb) ..... ≤ 10 ppm  
Thiosulfates and barium .. Conform USP-NF Sulphate ..... ≤ 150 ppm

Code	Size	Packaging	Notes
362405	250 g	Plastic bottle	
362407	1 kg	Plastic bottle	
362409	5 kg	Plastic tank	
362403	10 kg	Plastic tank	
362402	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Potassium iodide solution 10%

• Potassio ioduro soluzione 10% • Potassium iodure solution 10% • Potasio yoduro solución 10% • Kaliumiodid 10%

KI  
Molecular Weight: 166,01  
CAS: 7681-11-0



**Danger**  
H372  
P260-P264-P270-P314-P501a

### Potassium iodide solution 10% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.072 - 1.080    Assay ..... 9.5 ÷ 10.5 % p/p

Code	Size	Packaging	Notes
472831	500 ml	Glass bottle	



## Potassium iodide solution 3.9%

• Potassio ioduro soluzione 3.9% • Potassium iodure solution 3.9% • Potasio yoduro solución 3.9% • Kaliumiodid 3.9%

KI  
Molecular Weight: 166,01  
CAS: 7681-11-0



**Warning**  
H373  
P260-P314-P501a

### Potassium iodide solution 3.9% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Assay ..... 3.7 - 4.1 % p/v

Code	Size	Packaging	Notes
472815000	250 ml	Glass bottle	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**



## Potassium iodide solution

• Potassio ioduro soluzione • Potassium iodure solution • Potasio yoduro solución • Kaliumjodidlösung

KI  
Molecular Weight: 166,01  
CAS: 7681-11-0

### Potassium iodide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611070504	100 ml	Glass bottle	Solution saturated Ref Ph.Eur 1070504
611070505	100 ml	Glass bottle	Solution iodinated R1 Ref Ph.Eur 1070505
611070502	1 l	Plastic bottle	Potassium iodide solution 166 g/l Ref Ph.Eur 1070502

**Storage: protected from light**



## Potassium iodide starch paper

• Cartina di amido di potassio • Papier potassium iodure d' amidon • Almidón de yoduro de potasio papel • Kaliumiodid-Stärke-Papier

### Potassium iodide starch paper > RS - For pHmetry

**RS**

Code	Size	Packaging	Notes
434980000	1 roll	Dispenser	Paper starch iodide, Color change: White --> Blue-purple



## Potassium iodobismuthate solution

• potassio iodobismutato soluzione • Potassium iodobismuthate solution • Potasio yodobismutato solución • Kaliumjodobismutatlösung



### Danger

H318-H372  
P260-P264-P280i-P305+P351+P338-P310a-P501a

### Potassium iodobismuthate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070600	100 ml	Glass bottle	Ref Ph.Eur 1070600
611070602	100 ml	Glass bottle	Potassium iodobismuthate solution R2 Ref Ph.Eur 1070602



## Potassium metabisulfite

• Potassio metabisolfito • Potassium metabisulfite • Potasio metabisulfito • Kaliumdisulfit

Synonym:

*Potassium disulfite*



Molecular Weight: 222,33

CAS: 16731-55-8

EEC-N: 240-795-3



### Warning

H319-H335-HEU031  
P261-P271-P304+P340-P305+P351+P338-  
P337+P313-P403+P233

### Potassium metabisulfite > ERBApharm - According to pharmacopoeia: NF

ERBApharm

Description ..... White powder or pieces      Heavy metals (Pb)..... ≤10 ppm      Assay (S02) ..... 51.8 ÷ 57.6 %  
Identification ..... Positive      Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
362627	1 kg	Plastic bottle	
362629	5 kg	Plastic tank	
362622	10 kg	Plastic tank	
362623	25 kg	Plastic bucket	

**This product should be used in compliance with the current legislation.**



## Potassium nitrate

• Potassio nitrato • Potassium nitrate • Potasio nitrato • Kaliumnitrat



Molecular Weight: 101,1

CAS: 7757-79-1

EEC-N: 231-818-8

### Classification transport

ONU: 1486

Transport Hazard class: 5.1

Packing group III



### Danger

H272  
P210-P220-P280-P370+P378a-P501a

### Potassium nitrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... White crystalline powder      Chloride ..... ≤20 ppm      Sulphate ..... ≤30 ppm      Mg ..... ≤20 ppm  
Identification ..... Positive      Phosphate ..... ≤5 ppm      Heavy metals (Pb) ..... ≤5 ppm      Na ..... ≤50 ppm  
pH sol. 5% in H<sub>2</sub>O ..... 4.5 ÷ 8.5      Iodate ..... ≤5 ppm      Ca ..... ≤50 ppm      Assay (acidimetric) ..... ≥99.0 %  
Water-insoluble matter ..... ≤50 ppm      Nitrite ..... ≤10 ppm      Fe ..... ≤3 ppm

Code	Size	Packaging	Notes
473006	100 g	Plastic bottle	
473007	1 kg	Plastic bottle	
473009	5 kg	Plastic tank	
473001	25 kg	Drum	



## Potassium nitrate > ERBApharm - According to pharmacopoeia: BP-Ph.Eur.

**ERBApharm**

Description .....	White crystalline powder	Reducing substances .....	Conform Ph.Eur.	Ca .....	≤ 100 ppm	Assay (acidimetric) .....	99.0 ÷ 101.0 % s.s.
Identification .....	Positive	Ammonium .....	≤ 100 ppm	Fe .....	≤ 20 ppm		
Appearance of solution .....	Conform Ph.Eur.	Heavy metals (Pb) .....	≤ 10 ppm	Na .....	≤ 0.10 %		
Acidity or alkalinity .....	Conform Ph.Eur.	Sulphate .....	≤ 150 ppm	Loss on drying .....	≤ 0.5 %		

Code	Size	Packaging	Notes
363007	1 kg	Plastic bottle	
363009	5 kg	Plastic tank	
363002	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Potassium nitrate 1 mol/l (1N)

• Potassio nitrato 1 mol/l (1N) • Potassium nitrate 1 mol/l (1N) • Potasio nitrato 1 mol/l (1N) • Kaliumnitrat 1 mol/l (1N)

KNO<sub>3</sub>  
Molecular Weight: 101,1  
CAS: 7757-79-1

## Potassium nitrate 1 mol/l (1N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Density at 20°C ..... 1.057 ÷ 1.061

Code	Size	Packaging	Notes
473045	250 ml	Plastic bottle	



## Potassium nitrite

• Potassio nitrito • Potassium nitrite • Potasio nitrito • Nitrit-Kalium

KNO<sub>2</sub>  
Molecular Weight: 85,1  
CAS: 7758-09-0  
EEC-N: 231-832-4

**Classification transport**  
ONU: 1488  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H301-H400  
P210-P220-P264-P280-P301+P310a-P330

## Potassium nitrite > RPE - For analysis

**RPE**

Description ..... Yellowish crystals Chloride ..... ≤ 200 ppm Fe ..... ≤ 10 ppm Assay ..... ≥ 97 %  
Identification ..... Positive Sulphate ..... ≤ 200 ppm Pb ..... ≤ 5 ppm

Code	Size	Packaging	Notes
473084	100 g	Glass bottle	



## Potassium oxalate monohydrate

• Potassio ossalato monoidrato • Potassium oxalate monohydrat • Potasio oxalato monohidrat • Kaliumoxalat-Monohydrat

Synonym:  
• Ethanedioic acid  
• Oxalic acid potassium salt

(COOK)<sub>2</sub>·H<sub>2</sub>O  
Molecular Weight: 184,23  
CAS: 6487-48-5  
EEC-N: 209-506-8



**Warning**  
H302-H312  
P264-P270-P280h-P301+P312a-P330-P501a

## Potassium oxalate monohydrate > RPE - For analysis - ACS

**RPE**

Description ..... White crystalline powder Ready carbonizable substances ..... Conform Chloride ..... ≤20 ppm Fe ..... ≤10 ppm  
Identification ..... Positive Water-insoluble matter ..... ≤100 ppm Sulphate ..... ≤100 ppm Na ..... ≤200 ppm  
Neutrality ..... Conform Ammonium ..... ≤200 ppm Heavy metals (Pb) ..... ≤20 ppm Assay (oxidimetric) ..... 98.5 ÷ 101.0 %

Code	Size	Packaging	Notes
473135	250 g	Plastic bottle	
473137	1 kg	Plastic bottle	
473133	25 kg	Plastic bucket	



## Potassium m-periodate

• Potassio (meta)-periodato • Potassium m-periodate • Potasio (meta)-periyodato • Kaliumperiodat

Synonym:  
Periodic acid potassium salt

KIO<sub>4</sub>  
Molecular Weight: 230  
CAS: 7790-21-8  
EEC-N: 232-196-0

**Classification transport**  
ONU: 1479  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272  
P210-P220-P280-P370+P378a-P501a

### Potassium m-periodate > RPE - For analysis - Reag. Ph. Eur.

**RPE**

Description ..... White crystalline powder    Identification ..... Positive    Mn ..... ≤ 1 ppm    Assay (iodometric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
473332	25 g	Glass bottle	
473334	100 g	Glass bottle	



## Potassium permanganate

• Potassio permanganato • Potassium permanganate • Potasio permanganato • Kaliumpermanganat

KMnO<sub>4</sub>  
Molecular Weight: 158,04  
CAS: 7722-64-7  
EEC-N: 231-760-3

**Classification transport**  
ONU: 1490  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H302-H410  
P210-P220-P264-P280-P301+P312a-P501a

### Potassium permanganate > RS - For enviromental analysis - ACS

**RS**

Description ..... Dark violet crystals    Chloride & Chlorate(Cl) ..... ≤ 50 ppm    Sulphate ..... ≤ 200 ppm    Assay (oxidimetric) ..... ≥ 99.0 %  
Identification ..... Positive    Water-insoluble matter ..... ≤ 0.2 %    Hg ..... ≤ 0.05 ppm

Code	Size	Packaging	Notes
476671	100 g	Glass bottle	

**Low content in Hg**

### Potassium permanganate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... Dark violet crystals    Chloride & Chlorate(Cl) ..... ≤ 50 ppm    Sulphate ..... ≤ 200 ppm    Appearance of solution ..... Conform Ph.Eur.  
Identification ..... Positive    Water-insoluble matter ..... ≤ 0.2 %    Assay (oxidimetric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
473384	100 g	Plastic bottle	
473385	250 g	Plastic bottle	
473387	1 kg	Plastic bottle	
473381	25 kg	Metal drum	

### Potassium permanganate > ERBapharm - According to pharmacopeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBapharm**

Description ..... Dark-violet crystals    Appearance of solution ..... Conform Ph.Eur.    Water not sol. matter ..... ≤ 0.2 %    Sulphate ..... ≤ 500 ppm  
Identification ..... Positive    Loss on drying ..... ≤ 0.5 %    Chloride ..... ≤ 200 ppm    Assay (oxidimetric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
363107	1 kg	Plastic bottle	
363109	5 kg	Plastic tank	
363101	25 kg	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Potassium permanganate solution 3%

• Potassio permanganato soluzione 3% • Potassium permanganate solution 3% • Potasio permanganato solución 3% • Kaliumpermanganatlösung 3%

KMnO<sub>4</sub>  
Molecular Weight: 158,04  
CAS: 7722-64-7



H411  
P273-P391-P501a

### Potassium permanganate solution 3% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070902	1 l	Glass bottle	Ref Ph.Eur 1070902



## Potassium permanganate 0.2 mol/l (1N)

• Potassio permanganato 0.2 mol/l (1N) • Potassium permanganate 0.2 mol/l (1N) • Potasio permanganato 0.2 mol/l (1N) • Kaliumpermanganat 0.2 mol/l (1N)

KMnO<sub>4</sub>  
Molecular Weight: 158,04  
CAS: 7722-64-7



H411  
P273-P391-P501a

### Potassium permanganate 0.2 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear purple liquid Assay (potentiometry) ..... 0.99 - 1.01 N NIST 136.....e

Code	Size	Packaging	Notes
473514000	1 l	Glass bottle	Certified with NIST traceability

**3.1606 g of KMnO<sub>4</sub>. Volumetric solution ready-to-use**



## Potassium permanganate 0.02 mol/l (0.1N)

• Potassio permanganato 0.02 mol/l (0.1N) • Potassium permanganate 0.02 mol/l (0.1N) • Potasio permanganato 0.02 mol/l (0.1N) • Kaliumpermanganat 0.02 mol/l (0.1N)

KMnO<sub>4</sub>  
Molecular Weight: 158,04  
CAS: 7722-64-7

### Potassium permanganate 0.02 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613005301	100 ml	Glass bottle	Ref Ph.Eur 3005300
613005309	250 ml	Glass bottle	Ref Ph.Eur 3005300
613005300	1 l	Glass bottle	Ref Ph.Eur 3005300

### Potassium permanganate 0.02 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Purple clear liquid Assay (potentiometry) ..... 0.0998 - 0.1002 N NIST 136.....e

Code	Size	Packaging	Notes
473567000	1 l	Glass bottle	Certified with NIST traceability
473565000	5 l	Kubidos	Certified with NIST traceability

**3.1606 g of KMnO<sub>4</sub>. Volumetric solution ready-to-use**

### Potassium permanganate 0.02 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear purple liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
473591		Glass ampoule	Volume: 65 ml

**3,161 g KMnO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



## Potassium permanganate 0.002 mol/l (0.01N)

- Potassio permanganato 0.002 mol/l (0.01N) • Potassium permanganate 0.002 mol/l (0.01N) • Potasio permanganato 0.002 mol/l (0.01N)
- Kaliumpermanganat 0.002 mol/l (0.01N)

KMnO<sub>4</sub>  
Molecular Weight: 158,04  
CAS: 7722-64-7

H412  
P273-P501a

### Potassium permanganate 0.002 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear purple liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
473661		Glass ampoule	Volume: 60 ml

**0,3161 g KMnO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**



## Potassium permanganate and phosphoric acid solution

- Potassio permanganato e acido fosforico soluzione • Potassium permanganate - Solution phosphorique • Potasio permanganato y ácido fosfórico solución
- Kaliumpermanganat - Phosphorlösung

KMnO<sub>4</sub>  
Molecular Weight: 158,04  
CAS: 7722-64-7

### Potassium permanganate and phosphoric acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070901	100 ml	Glass bottle	Ref Ph.Eur 1070901



## Potassium persulfate

- Potassio persolfato • Potassium persulfate • Potasio persulfato • Kaliumpersulfat

Synonym:  
*Potassium peroxodisulfate*

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub>  
Molecular Weight: 270,31  
CAS: 7727-21-1  
EEC-N: 231-781-8

**Classification transport**  
ONU: 1492  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272-H302-H315-H319-H334-H317-H335  
P210-P280-P284-P304+P340-P305+P351+P338-  
P342+P311a-P403+P233

### Potassium persulfate > RE - Pure

RE

Description ..... White crystalline powder Acidity(Sulphuric acid) ..... ≤ 0.15 % Assay (oxidimetric) ..... ≥ 99 %  
Identification ..... Positive Fe ..... ≤ 5 ppm

Code	Size	Packaging	Notes
473701	1 kg	Plastic bottle	



## Potassium phosphate dibasic anhydrous

- Potassio fosfato bibasico anidro • Potassium phosphate dibasique anhydre
- Potasio fosfato dibásico anhidro • Dikaliumhydrogenphosphat wasserfrei

Synonym:  
*Dipotassium hydrogenphosphate*

$K_2HPO_4$   
Molecular Weight: 174,18  
CAS: 7758-11-4  
EEC-N: 231-834-5

### Potassium phosphate dibasic anhydrous > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... White crystalline powder      Loss on drying (105°C)..... ≤1.0 %      Chloride..... ≤30 ppm      Fe ..... ≤10 ppm  
Identification ..... Positive      Water-insoluble matter ..... ≤100 ppm      Sulphate ..... ≤50 ppm      Na ..... ≤500 ppm  
pH sol. 5% in H<sub>2</sub>O ..... 8.5 ÷ 9.6      Total nitrogen ..... ≤10 ppm      Heavy metals (Pb)..... ≤5 ppm      Assay (potentiometric) ..... ≥98.0 %

Code	Size	Packaging	Notes
471785	100 g	Plastic bottle	
471786	500 g	Plastic bottle	
471787	1 kg	Plastic bottle	
471782	5 kg	Plastic tank	
471781	25 kg	Plastic drum	
471788	25 kg	Plastic bucket	

### Potassium phosphate dibasic anhydrous > RE - Pure

**RE**

Description ..... white crystalline powder      Chloride..... ≤100 ppm      Sulphate ..... ≤200 ppm      Assay (acidimetric) ..... ≥98 %  
Identification ..... Positive      Heavy metals (Pb)..... ≤30 ppm      Fe ..... ≤50 ppm

Code	Size	Packaging	Notes
361757	1 kg	Plastic bottle	
361752	5 kg	Plastic tank	
361751	25 kg	Plastic bucket	



## Potassium phosphate dibasic trihydrate

- Potassio fosfato bibasico triidrato • Potassium phosphate dibasique trihydraté
- Potasio fosfato dibasico trihidrato • Zweiwertiges Kaliumphosphat-Trihydrat

Synonym:  
*Dipotassium hydrogen phosphate trihydrate*

$K_2HPO_4 \cdot 3H_2O$   
Molecular Weight: 228,23  
CAS: 16788-57-1  
EEC-N: 231-834-5

### Potassium phosphate dibasic trihydrate > RPE - For analysis

**RPE**

Description ..... White crystals      Total nitrogen ..... ≤50 ppm      Cu ..... ≤30 ppm      Pb ..... ≤30 ppm  
Identification ..... Positive      Chloride..... ≤50 ppm      Fe ..... ≤30 ppm  
pH sol. 5% in H<sub>2</sub>O ..... 8.5 ÷ 9.6      Sulphate ..... ≤100 ppm      Assay (non-aqueous medium) ..... ≥ 99.0 %  
Water-insoluble matter ..... ≤100 ppm      As ..... ≤1 ppm      Ni ..... ≤30 ppm

Code	Size	Packaging	Notes
471764	100 g	Plastic bottle	
471766	500 g	Plastic bottle	
471767	1 kg	Plastic bottle	
471761	25 kg	Fibre drum	



## Potassium phosphate monobasic

- Potassio fosfato monobásico • Potassium phosphate monobasique • Potasio fosfato monobásico
- Kaliumphosphat monobasisch

Synonym:

- Monopotassium phosphate
- Potassium dihydrogen phosphate



Molecular Weight: 136,09

CAS: 7778-77-0

EEC-N: 231-913-4

### Potassium phosphate monobasic > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description .....	White crystals	Water-insoluble matter .....	≤100 ppm	Fe .....	≤10 ppm	liquid Ph. Eur.	
Identification .....	Positive	Chloride .....	≤10 ppm	Na .....	≤50 ppm	Reducing substances .....	Pass test Ph.Eur.
pH sol. 5% in H <sub>2</sub> O .....	4.2 ÷ 4.5	Sulphate .....	≤30 ppm	Assay (potentiometric) 99.0 ÷ 100.5 (s-s) %		As .....	≤ 2 ppm
Loss on drying (105°C) .....	≤0.2 %	Heavy metals (Pb) .....	≤10 ppm	Appearance of solution .....	Clear colourless	Loss on drying 130°C .....	≤ 2.0 %

Code	Size	Packaging	Notes
471685	100 g	Plastic bottle	
471686	500 g	Plastic bottle	
471687	1 kg	Plastic bottle	
471682	5 kg	Plastic jar	
471681	25 kg	Plastic bucket	

### Potassium phosphate monobasic > ERBapharm - According to pharmacopoeia: NF

ERBapharm

Description .....	White crystalline powder	Loss on drying .....	≤1.0 %	Not soluble matter .....	≤0.2 %	Assay .....	98.0 ÷ 100.5 % s.s.
Identification .....	Positive	Fluoride .....	≤10 ppm	As .....	≤3 ppm	Origin (BSE/TSE) .....	Synthesis
Organic volatile impurities	Conform USP-NF	Heavy metals (Pb) .....	≤20 ppm	Pb .....	≤5 ppm	Residual solvents (Current ICH) .....	Conform

Code	Size	Packaging	Notes
361507	1 kg	Plastic bottle	
361509	5 kg	Plastic tank	
361503	25 kg	Plastic bucket	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade



## Potassium phosphate monobasic 0.2 mol/l (0.2N)

- Potassio fosfato monobásico 0.2 mol/l (0.2N) • Potassium phosphate monobasique 0.2 mol/l (0.2N)
- Potasio fosfato monobásico 0.2 mol/l (0.2N) • Monobasisches Kaliumphosphat 0.2 mol/l (0.2N)

Synonym:

- Monopotassium phosphate
- Potassium dihydrogen phosphate



Molecular Weight: 136,09

CAS: 7778-77-0

### Potassium phosphate monobasic 0.2 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069601	1 l	Plastic bottle	Ref Ph.Eur 1069601



## Potassium pyroantimonate acid

- Potassio piroantimoniato acido • Potassium pyroantimonate acide • Potasio piroantimoniato acido
- Kaliumsäurepyroantimoniat

Synonym:

- Potassium hexahydroxoantimonate(V)
- Potassium antimonate, hydrated



Molecular Weight: 262,9

CAS: 12208-13-8

EEC-N: 235-387-7

### Classification transport

ONU: 1549

Transport Hazard class: 6.1

Packing group III



### Warning

H302-H332-H411

P261-P264-P271-P301+P312a-P304+P340-P501a

### Potassium pyroantimonate acid > RPE - For analysis

RPE

Description .....	White to off white crystals powder	Identification .....	Positive	Assay (as K3B03 on calc.mat.) .....	≥ 99 %	Loss on ignition .....	≤ 22 %
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Code	Size	Packaging	Notes
473835	250 g	Plastic bottle	





## Potassium pyroantimonate solution

• Potassio piroantimoniato soluzione • Potassium pyroantimoine solution • Potasio piroantimoniato solución • Kaliumpyroantimonlösung

Synonym:

• Potassium hexahydroxoantimonate(V)  
• Potassium antimonate, hydrated

$\text{KSb(OH)}_6$

Molecular Weight: 262,9

CAS: 12208-13-8

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group II

### Potassium pyroantimonate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611071303	100 ml	Plastic bottle	Ref Ph.Eur 1071300
611071309	250 ml	Plastic bottle	Ref Ph.Eur 1071300
611071302	1 l	Plastic bottle	Ref Ph.Eur 1071300

### Potassium pyroantimonate solution > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000311	100 ml	Bottle	



## tetra-Potassium pyrophosphate

• Potassio pirofosfato • Potassium pyrophosphate • Potasio pirofosfato • Kaliumpyrophosphat

$\text{K}_4\text{P}_2\text{O}_7$

Molecular Weight: 330,35

CAS: 7320-34-5

EEC-N: 230-785-7

### tetra-Potassium pyrophosphate > RPE - For analysis

RPE

Description .....	White powder	Fluoride .....	$\leq 5$ ppm	As .....	$\leq 1$ ppm	Assay (acidimetric) .....	$\geq 95.0$ %
Identification .....	Positive	Heavy metals (Pb) .....	$\leq 20$ ppm	Fe .....	$\leq 30$ ppm		
Water-insoluble matter .....	$\leq 0.1$ %	pH sol. 1% at 25° C .....	$10.0 \div 10.5$	Pb .....	$\leq 1$ ppm		

Code	Size	Packaging	Notes
473915	250 g	Plastic bottle	



## Potassium pyrosulphate

• Potassio pirosofosfato • Potassium pyrosulfate • Potasio pirosofosfato • Kaliumpyrosulfat

Synonym:

Potassium disulfate

$\text{K}_2\text{O}_7\text{S}_2$

Molecular Weight: 254,33

CAS: 7790-62-7

EEC-N: 232-216-8

### Classification transport

ONU: 3260

Transport Hazard class: 8

Packing group II



### Danger

H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

### Potassium pyrosulphate > RPE - For analysis - ACS

RPE

Description .....	White granules	Chloride .....	$\leq 20$ ppm	Fe .....	$\leq 20$ ppm	Ca .....	$\leq 20$ ppm
Identification .....	Positive	Phosphate .....	$\leq 10$ ppm	Na .....	$\leq 100$ ppm	Mg .....	$\leq 10$ ppm
Water (K.F.) .....	$\leq 2.5$ %	Heavy metals (Pb) .....	$\leq 10$ ppm	Assay (acidimetric) .....	$37.5 \div 38.6$ % (H <sub>2</sub> SO <sub>4</sub> )	Water-insoluble matter .....	$\leq 100$ ppm

Code	Size	Packaging	Notes
474016	100 g	Plastic bottle	



## Potassium sodium tartrate tetrahydrate

- Potassio sodio tartrato tetraidrato • Potassium sodium tartrate tétrahydraté
- Potasio y sodio tartrato tetrahidrato • Kalium natrium tartrat tetrahydrate

Synonym:  
Rochelle salt

$C_4H_4O_6KNa \cdot 4H_2O$   
Molecular Weight: 282,23  
CAS: 6381-59-5  
EEC-N: 205-698-2

### Potassium sodium tartrate tetrahydrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description . White semitransparent crystals	Chloride.....≤10 ppm	Sulphate.....≤50 ppm	%
Identification ..... Positive	Phosphate .....≤20 ppm	Ca.....≤50 ppm	
pH sol. 5% at 25° C ..... 6.0 ÷ 8.5	Water-insoluble matter .....≤50 ppm	Fe.....≤10 ppm	
Ammonium.....≤20 ppm	Heavy metals (Pb).....≤5 ppm	Assay (non-aqueous medium) . 99.0 ÷ 102.0	

Code	Size	Packaging	Notes
474115	100 g	Plastic bottle	
474116	500 g	Plastic bottle	
474117	1 kg	Plastic bottle	
474119	5 kg	Plastic jar	
474112	25 kg	Plastic bucket	
474114	50 kg	Plastic bucket	

### Potassium sodium tartrate tetrahydrate > ERBApharm - According to pharmacopoeia: USP

ERBApharm

Description ..... White crystalline powder	Ammonia.....Conform USP-NF	Assay (alkalimetric)..... 99.0 ÷ 102.0 % s.s.
Identification ..... Positive	Water (K.F.)..... 21.0 ÷ 27.0 %	Origin (BSE/TSE)..... Conform
Alcalinity.....Conform USP-NF	Heavy metals (Pb).....≤10 ppm	Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
363457	1 kg	Plastic bottle	
363459	5 kg	Plastic tank	
363455	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Potassium sorbate

- Potassio sorbato • Potassium sorbate • Potasio sorbato • Kaliumsorbat

Synonym:  
• Potassium 2,4-hexadienoate  
• Sorbic acid potassium salt

$CH_3(CH=CH)_2COOK$   
Molecular Weight: 150,22  
CAS: 24634-61-5  
EEC-N: 246-376-1



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Potassium sorbate > RE - Pure

RE

Description ..... White rode-like granules	Loss on drying in vacuo.....≤1 %	As.....≤3 ppm	Assay (non-aqueous medium) .....≥99 % s s
Identification ..... Positive	Aldehydes(Formaldehyde).....≤0.1 %	Pb.....≤10 ppm	
M.p. extr. Sorbic acid..... 133 ÷ 135 ° C	Cu + Zn.....≤50 ppm	Zn.....≤25 ppm	

Code	Size	Packaging	Notes
363884	1 kg	Plastic bottle	



## Potassium sulfate

• Potassio solfato • Potassium sulfate • Potasio sulfato • Kaliumsulfat

$K_2SO_4$   
Molecular Weight: 174,27  
CAS: 7778-80-5  
EEC-N: 231-915-5

### Potassium sulfate > RS - For microanalysis

RS

Description ..... White crystals Identification ..... Positive

Code	Size	Packaging	Notes
474205	250 g	Plastic bottle	

### Potassium sulfate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... White crystals Total nitrogen ..... ≤5 ppm Heavy metals (Pb) ..... ≤5 ppm Assay (acidimetric) ..... ≥99.0 %  
Identification ..... Positive Chloride ..... ≤10 ppm Fe ..... ≤5 ppm Ca ..... ≤100 ppm  
pH sol. 5% in H<sub>2</sub>O ..... 5.5 ÷ 8.5 Water-insoluble matter ..... ≤100 ppm Na ..... ≤200 ppm Mg ..... ≤50 ppm

Code	Size	Packaging	Notes
474166	100 g	Plastic bottle	
474167	1 kg	Plastic bottle	
474169	5 kg	Plastic jar	

### Potassium sulfate > RE - Pure

RE

Description ..... White crystalline powder Loss on drying ..... ≤ 0.1 % Na ..... ≤ 300 ppm Mg ..... ≤ 300 ppm  
Identification ..... Positive Assay (gravimetric) ..... ≥99 % Chloride ..... ≤ 40 ppm

Code	Size	Packaging	Notes
363607	1 kg	Plastic bottle	
363608	5 kg	Plastic tank	
363602	25 kg	Plastic bucket	



## Potassium tartrate

• Potassio tartrato • Potassium tartrate • Potasio tartrato • Kaliumtartrat

Synonym:  
*Dipotassium tartrate hemihydrate*

$C_4H_4K_2O_6 \cdot 1/2H_2O$   
Molecular Weight: 235,28  
CAS: 6100-19-2

### Potassium tartrate > RPE - For analysis

RPE

Description ..... White crystals Phosphate ..... ≤ 5 ppm Ca ..... ≤ 50 ppm Pb ..... ≤ 2 ppm  
Identification ..... Positive Water-insoluble matter ..... ≤ 50 ppm Cu ..... ≤ 2 ppm Zn ..... ≤ 2 ppm  
pH sol. 5% at 25° C ..... 7.0 ÷ 9.0 Heavy metals (Pb) ..... ≤ 5 ppm Fe ..... ≤ 5 ppm Assay (non-aqueous medium) ..... ≥ 99 %  
Ammonium ..... ≤ 10 ppm Sulphate ..... ≤ 50 ppm Na ..... ≤ 200 ppm  
Chloride ..... ≤ 10 ppm As ..... ≤ 0.4 ppm Ni ..... ≤ 2 ppm

Code	Size	Packaging	Notes
474465	250 g	Plastic bottle	
474467	1 kg	Plastic bottle	



## Potassium L-tartrate monobasic

- Potasio tartrato acido • Potassium L-tartrate monobasic • Potasio tartrato acido
- Kalium L-Tartrat monobasisch

Synonym:  
*Potassium bitartrate*

COOK(CHOH)<sub>2</sub>COOH  
Molecular Weight: 188,18  
CAS: 868-14-4  
EEC-N: 212-769-1

### Potassium L-tartrate monobasic > RPE - For analysis

**RPE**

Description ..... White crystalline powder Pot. rotat. spec. a 20°C (c=10; NaOH 1N)..... +32 ÷ +33 ° Sulphate ..... ≤ 100 ppm  
Identification ..... Positive Chloride..... ≤ 200 ppm As ..... ≤ 1 ppm  
Loss on drying ..... ≤ 0.2 % Heavy metals (Pb)..... ≤ 10 ppm Assay (non-aqueous medium) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
474515	250 g	Plastic bottle	
474517	1 kg	Plastic bottle	

### Potassium L-tartrate monobasic > RE - Pure

**RE**

Description ..... White crystalline powder Ac. tartarico libero ..... ≤ 0.2 % As ..... ≤ 1 ppm  
Identification ..... Positive Chloride..... ≤ 350 ppm Pb ..... ≤ 10 ppm  
Loss on drying ..... ≤ 0.5 % Sulphate ..... ≤ 0.12 % Assay (acidimetric) ..... ≥ 99.5 % s.s.

Code	Size	Packaging	Notes
363907	1 kg	Plastic bottle	



## Potassium tellurite

- Potasio tellurito • Potassium tellurite • Potasio telurito • Kaliumtellurit

K<sub>2</sub>TeO<sub>3</sub>·nH<sub>2</sub>O  
Molecular Weight: 253,8  
CAS: 7790-58-1  
EEC-N: 232-213-1



**Danger**

H301  
P264-P270-P301+P310a-P330-P405-P501a

### Potassium tellurite > RE - Pure

**RE**

Description ..... Yellowish crystals Identification ..... Positive Assay (oxidimetric) ..... ≥ 95 %

Code	Size	Packaging	Notes
474652	25 g	Glass bottle	



## Potassium tetraiodomercurate solution, alkaline

- Potasio tetraiodomercurato soluzione alcalina • Potassium tétraiodomercurate - Solution alcaline • Potasio tetraiodomercurato solución alcalina
- Kaliumtetraiodomercurat - alkalische Lösung

### Classification transport

ONU: 3316  
Transport Hazard class: 9  
Packing group II



**Danger**

H290-H300-H310-H330-H314-H373-H410  
P264-P273-P301+P310a-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P320-P361+P364

### Potassium tetraiodomercurate solution, alkaline > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611071600	200 ml	Bottle	Ref Ph.Eur 1071600

**Potassium thiocyanate**  
 • Potassio solfocianuro • Potassium sulfocyanure • Potasio sulfocianuro • Kaliumthiocyanat  
 Synonym: *Potassium rhodanide*

KSCN  
 Molecular Weight: 97,18  
 CAS: 333-20-0  
 EEC-N: 206-370-1

**Warning**  
 H302-H312-H332-H412-HEU032  
 P261-P264-P271-P280h-P301+P312a-P304+P340

**Potassium thiocyanate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP** **RPE**

Description ..... White crystals      Water-insoluble matter ..... ≤50 ppm      Chloride ..... ≤50 ppm      Fe ..... ≤2 ppm  
 Identification ..... Positive      Reducing iodine ..... Conform ACS      Sulphate ..... ≤50 ppm      Na ..... ≤50 ppm  
 pH sol. 5% at 25° C ..... 5.3 ÷ 8.7      Ammonium ..... ≤30 ppm      Heavy metals (Pb) ..... ≤5 ppm      Assay (argentimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
474355	250 g	Plastic bottle	
474357	1 kg	Plastic bottle	

**Potassium thiocyanate > RE - Pure** **RE**

Description ..... White crystalline powder      pH sol. 5% at 20°C ..... 5.0 ÷ 8.7      Sulphate ..... ≤ 0.1 %      Assay (argentimetric) ..... ≥ 98 %  
 Identification ..... Positive      Chloride ..... ≤ 500 ppm      Fe ..... ≤ 20 ppm

Code	Size	Packaging	Notes
363756	500 g	Plastic bottle	
363752	25 kg	Plastic bucket	

**Potassium thiocyanate solution 5%**  
 • Potassio solfocianuro soluzione 5% • Potassium sulfocyanure solution 5%  
 • Potasio sulfocianuro solución 5% • Kaliumthiocyanat 5%  
 Synonym: *Potassium rhodanide*

KSCN  
 Molecular Weight: 97,18  
 CAS: 333-20-0  
 HEU031-HEU210

**Potassium thiocyanate solution 5% > RPE - For analysis** **RPE**

Description ..... Clear colourless liquid      Identification ..... Positive      Density at 20° C ..... 1.020 ÷ 1.030

Code	Size	Packaging	Notes
E474381	1 l	Plastic bottle	

**Stabilized with methyle p-hydroxybenzoate and n-Propyle p-hydroxybenzoate**

**Potassium thiocyanate 0.1 mol/l (0.1N)**  
 • Potassio solfocianuro 0.1 mol/l (0.1N) • Potassium sulfocyanure 0.1 mol/l (0.1N)  
 • Potasio sulfocianuro 0.1 mol/l (0.1N) • Kaliumthiocyanat 0.1 mol/l (0.1N)  
 Synonym: *Potassium rhodanide*

KSCN  
 Molecular Weight: 97,18  
 CAS: 333-20-0  
 HEU031-HEU210

**Potassium thiocyanate 0.1 mol/l (0.1N) > RPE - For analysis** **RPE**

Description ..... Clear colourless liquid      Identification ..... Positive      Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E474417	1 l	Plastic bottle	

**9.718 g of KSCN. Volumetric solution ready-to-use. Stabilized with p-oxybenzoate**



## Potassium thiocyanate solution

- Potassio solfocianuro soluzione • Potassium sulfocyanure solution • Potasio sulfocianuro solución
- Kaliumsulfocyanidlösung

Synonym:  
*Potassium rhodanide*

KSCN  
Molecular Weight: 97,18  
CAS: 333-20-0

### Potassium thiocyanate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611071801	1 l	Plastic bottle	A 97 g/l solution Ref Ph.Eur 1071801



## Praseodymium standard solution

- Praseodimio standard soluzione • Praseodyme solution standard • Praseodimio, solución patrón • Praseodym-Standardlösung

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group III



### Danger

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Praseodymium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505782	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505785	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Praseodymium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503821	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503823	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503825	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503827	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Primary opalescent suspension

- Sospensione primaria di opalescenza • Suspension mère d'opalescence • Suspensión opalescente primaria • Suspensionsmutter der Opaleszenz



### Danger

H317-H350-HA26  
P261-P280-P308+P313-P362+P364-P333+P313-  
P501a


### Primary opalescent suspension > RS - For analysis according to USP - Ph. Eur. Chap. 2.2.1

RS

Description ..... Opalescent liquid Assay (15ml in 1l of purif.water)..... 57 - 63 NTU

Code	Size	Packaging	Notes
612201100	100 ml	Glass bottle	Formazin suspension
612201101	1 l	Glass bottle	Formazin suspension




	<b>L(-)Proline</b> • L(-)Prolina • L(-)Proline • L(-)Prolina • L-Prolin	<b>Synonym:</b> (S)-Pyrrolidine-2-carboxylic acid
	<chem>NH(CH2)3CHCOOH</chem> Molecular Weight: 115,13 CAS: 147-85-3 EEC-N: 205-702-2	

### L(-)Proline > RPE - For analysis

**RPE**

Description	White crystalline powder	Potere rotat. spec. a 20°C (C=4; H2O)	-86.8 ÷ -84.5 °	Loss on drying	≤ 0.3 %
Identification	Positive	pH 2,5% at 25° C	5.5 ÷ 7	Assay (non-aqueous medium)	99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
474708	5 g	Glass bottle	

	<b>Propan-1-ol</b> • Propan-1-olo • Propane-1-ol • Propan-1-ol • 1-Propanol	<b>Synonym:</b> Propyl alcohol
	<chem>CH3CH2CH2OH</chem> Molecular Weight: 60,1 CAS: 71-23-8 EEC-N: 200-746-9	

### Classification transport

ONU: 1274  
 Transport Hazard class: 3  
 Packing group III



### Danger

H225-H302-H318-H336  
 P210-P280-P303+P361+P353-P304+P340-P310a-  
 P305+P351+P338-P403+P233

### Propan-1-ol > RS - For HPLC - Isocratic Grade

**RS**

Description	Clear colourless liquid	Boiling point	96.9 ÷ 97.4 ° C	Assay (GLC)	≥99.5 %	at 240 nm	≥79 %
Identification	Positive	Acidity or alkalinity	≤0.00015 meq/g	U.V. Transmittance		at 250 nm	≥89 %
Density at 20° C	0.803 ÷ 0.805	Water (K.F)	≤500 ppm	at 220 nm	≥20 %	at 270 nm	≥96 %
Refractive index at 20°C	1.3840 ÷ 1.3860	Residue on evaporation	≤10 ppm	at 230 nm	≥56 %	at 290 nm	≥98 %

Code	Size	Packaging	Notes
412541000	1 l	Glass bottle	
412542000	2.5 l	Glass bottle	

### Propan-1-ol > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C	1.384 - 1.386	Non volatile residue	≤ 10 mg/Kg	Assay (GC)	≥ 99.5 %
Water content (K.F)	≤ 300 mg/Kg	Colour	≤ 10 Hazen	Free acid (as CH3COOH)	≤ 0.03 % m/m

Code	Size	Packaging	Notes
P0941016	1 l	Glass bottle	
P0941021	2.5 l	Glass bottle	

### Propan-1-ol > RPE - For analysis - Reag. Ph. Eur.

**RPE**

Description	Clear liquid	Density at 20° C	0.803 ÷ 0.805	Distillation range	96 ÷ 99°C	Acidity (acetic acid)	≤ 0.03 %
Identification (I.R.)	Conform	Refractive index at 20°C	1.3840 ÷ 1.3860	Water (K.F)	≤ 1000 ppm	Assay (GLC)	≥ 99.5 %
Colour	≤ 10 APHA	Boiling point	96 ÷ 98 ° C	Residue on evaporation	≤ 5 ppm		

Code	Size	Packaging	Notes
415104	1 l	Glass bottle	
415102	2.5 l	Glass bottle	
415108	10 l	Plastic tank	
415106	25 l	Aluminium can	

## Propan-1-ol > RE - Pure

**RE**

Description .....	Clear liquid	Density at 20° C .....	0.802 ÷ 0.806	Water (K.F.) .....	≤0.5 %	Assay (GLC) .....	≥99 %
Identification .....	Positive	Refractive index at 20°C. 1.3830 ÷ 1.3870		Residue on evaporation .....	≤ 50 ppm	Colour .....	≤ 10 APHA

Code	Size	Packaging	Notes
309351	1 l	Glass bottle	
309352	2.5 l	Glass bottle	
309354	5 l	Plastic tank	
309353	25 l	Plastic tank	
309358	165 kg	Metal drum	



## Propan-2-ol

• Propan-2-olo • Propane-2-ol • Propan-2-ol • 2-Propanol

Synonym:  
• Isopropanol  
• IPA

CH<sub>3</sub>CHOHCH<sub>3</sub>  
Molecular Weight: 60,1  
CAS: 67-63-0  
EEC-N: 200-661-7

**Classification transport**  
ONU: 1219  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233

## Propan-2-ol > RS - For LC/MS

**RS**

Description .....	Clear colourless liquid	Acidity (acetic acid).....	≤ 0.0010 %	At 260 nm .....	≥ 98.5 %	Al .....	≤ 50 ppb
Colour .....	≤ 10 APHA	Alcalinity (NH <sub>3</sub> ).....	≤ 0.0005 %	HPLC Gradient		Fe .....	≤ 50 ppb
Identification (I.R.).....	Positive	Assay (CPG) .....	≥ 99.95 %	At 254 nm .....	≤ 2 mAU	Na .....	≤ 50 ppb
Refractive index at 20°C.....	1.375 - 1.379	Transmittance		Test LC-MS TIC (50-2000m/z) ES I(+)		Ca .....	≤ 50 ppb
Water (K.F.) .....	≤ 200 ppm	At 220 nm .....	≥ 64 %	Sensitive Impurities (reserpine)...	≤ 100 ppb	Mg .....	≤ 50 ppb
Residue on evaporation .....	≤ 2 ppm	At 230 nm .....	≥ 80 %	Metals compounds		K .....	≤ 50 ppb

Code	Size	Packaging	Notes
415183	1 l	Glass bottle	
415184	2.5 l	Glass bottle	

## Propan-2-ol > RS - For HPLC PLUS Gradient grade

**RS**

Description .....	Clear colourless liquid	Acidity or alkalinity.....	≤0.0001 meq/g	at 254 nm .....	≤2 ppb	at 240 nm .....	≥89 %
Identification .....	Positive	Water (K.F.) .....	≤0.1 %	at 365 nm .....	≤2 ppb	at 250 nm .....	≥96 %
Density at 20° C .....	0.784 ÷ 0.786	Residue on evaporation .....	≤2 ppm	U.V. Transmittance		at 260 nm .....	≥98 %
Refractive index at 20°C. 1.3766 ÷ 1.3786		Assay (GLC) .....	≥99.9 %	at 220 nm .....	≥63 %	at 270 nm .....	≥99 %
Boiling point.....	82.1 ÷ 82.6 °C	Fluorescence		at 230 nm .....	≥79 %		

Code	Size	Packaging	Notes
412711000	1 l	Glass bottle	
412712000	2.5 l	Glass bottle	

## Propan-2-ol > RS - For HPLC Isocratic grade - ACS - Reag.Ph.Eur - Reag.USP

**RS**

Appearance .....	Clear liquid	Density at 20°C .....	0.784 ÷ 0.786	Assay (GLC) .....	≥ 99.9 %	at 275 nm .....	≤ 0.03 AU
Identification .....	Positive	Refractive index at 20°C. 1.3766 ÷ 1.3786		Absorbance UV (ACS - USP)		at 300 nm .....	≤ 0.02 AU
Color .....	≤ 10 APHA	Carbonyl comp. (propionald. and acetone) ≤ 20 ppm		at 210 nm .....	≤ 1.00 AU	from 400 to 330 nm.....	≤ 0.01 AU
Solubility in water.....	Passes test	Residue after evaporation .....	≤ 5 ppm	at 220 nm .....	≤ 0.40 AU	Transmittance UV (RS CLHP - Reag Ph Eur)	
Miscibility in alcohol .....	Passes test	Water (H <sub>2</sub> O) .....	≤ 500 ppm	at 230 nm .....	≤ 0.20 AU	at 250 nm .....	≥ 95 %
Miscibility in water.....	Passes test	Titration acid or base.....	≤ 0.0001 meq/g	at 245 nm .....	≤ 0.08 AU		
Boiling point.....	82.05 ÷ 82.55 °C			at 260 nm .....	≤ 0.04 AU		

Code	Size	Packaging	Notes
412821	1 l	Glass bottle	
525161	2.5 l	Glass bottle	

## Propan-2-ol > RS - For HPLC - Isocratic Grade

**RS**

Description .....	Clear colourless liquid	Acidity or alkalinity.....	≤0.0001 meq/g	At 210 nm .....	≥ 20 %	at 260 nm .....	≥98 %
Identification .....	Positive	Water (K.F.) .....	≤0.1 %	at 220 nm .....	≥63 %	at 270 nm .....	≥99 %
Density at 20° C .....	0.784 ÷ 0.786	Residue on evaporation .....	≤2 ppm	at 230 nm .....	≥79 %		
Refractive index at 20°C.....	1.3766 ÷ 1.3786	Assay (GLC) .....	≥99.9 %	at 240 nm .....	≥89 %		
Boiling point.....	82.1 ÷ 82.6 ° C	U.V. Transmittance		at 250 nm .....	≥96 %		

Code	Size	Packaging	Notes
412421000	1 l	Glass bottle	
412422000	2.5 l	Glass bottle	

## Propan-2-ol > RS - For preparative HPLC

**RS**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.3766 ÷ 1.3786	Residue on evaporation .....	≤5 ppm	U.V. Transmittance	
Identification .....	Positive	Boiling point.....	82.1 ÷ 82.6 ° C	Alcalinity (NH3).....	≤0.0002 meq/g	at 220 nm .....	≥50 %
Density at 20° C .....	0.784 ÷ 0.786	Water (K.F.) .....	≤500 ppm	Assay (GLC) .....	≥99.5 %	at 255 nm .....	≥97 %

Code	Size	Packaging	Notes
415112	2.5 l	Glass bottle	

## Propan-2-ol > RS - PESTIPUR - For pesticide analysis

**RS**

Clear, colourless liq. appearance .....	Conform	Water content (K.F.) .....	≤ 500 mg/Kg	GC-ECD. Individual peak (Lindane) ..	≤ 3 ng/l	Retention time Atrazin to Coumaphos	
Identification .....	Conform	Non volatile residue .....	≤ 2 mg/Kg	Retention time trichlorobenzene to mirex			
Refractive index at 20°C.....	1.375 - 1.379	Free acid (as CH3COOH).....	≤ 20 mg/Kg	GC-NPD. Individual peak (Ethylparathion) ≤	3 ng/l		
Colour .....	≤ 10 Apha	Assay (GC) .....	≥ 99.9 %				

Code	Size	Packaging	Notes
415281	1 l	Glass bottle	

**For chlorinated and nitrogenous compounds analysis.**

## Propan-2-ol > RS - SPECTROSOL - For optical spectroscopy

**RS**

Description .....	Clear liquid	Boiling point.....	82.1 ÷ 82.6 ° C	Assay (GLC) .....	≥99.8 %	at 205 nm .....	≥10 %
Colour (APHA) .....	≤10	Water (K.F.) .....	≤500 ppm	Fluorescence		at 215 nm .....	≥50 %
Identification .....	Positive	Residue on evaporation .....	≤5 ppm	at 254 nm .....	≤2 ppb	at 230 nm .....	≥80 %
Density at 20° C .....	0.784 ÷ 0.786	Acidity .....	≤0.0005 meq/g	at 365 nm .....	≤2 ppb	at 250 nm .....	≥95 %
Refractive index at 20°C.....	1.3766 ÷ 1.3786	Alcalinity.....	≤0.0002 meq/g	U.V. Transmittance		at 260 nm .....	≥98 %

Code	Size	Packaging	Notes
415213	1 l	Glass bottle	
P0952721	2.5 l	Glass bottle	

## Propan-2-ol > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C.....	1.375 - 1.379	Non volatile residue .....	≤ 10 mg/Kg	Assay (GC) .....	≥ 99.8 %
Water content (K.F.) .....	≤ 300 mg/Kg	Colour .....	≤ 10 Hazen	Free acid (as CH3COOH).....	≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0951010	200 ml	Bottle with septum	
P0951016	1 l	Glass bottle	

## Propan-2-ol > RS - VLSI - For electronic use

**RS**

Code	Size	Packaging	Notes
527696	1 l	Plastic bottle	
527690	2.5 l	Plastic bottle	
527691	30 l	Plastic tank	

**For specifications, contact our customer service for a certificate of analysis**

## Propan-2-ol > RS - RSE - For electronic use

**RS**

Description .....	White flakes	Chloride .....	≤0.2 ppm	Ca .....	≤0.2 ppm	Ni .....	≤0.01 ppm
Identification .....	Positive	Total phosphorus .....	≤0.1 ppm	Cd .....	≤0.01 ppm	Pb .....	≤0.01 ppm
Colour (APHA) .....	≤10	Heavy metals (Pb) .....	≤0.1 ppm	Co .....	≤0.01 ppm	Pt .....	≤0.05 ppm
Assay (HRGC) .....	≥99 %	Subst. reducing KMnO <sub>4</sub> .....	≤2.5 ppm	Cr .....	≤0.01 ppm	Sb .....	≤0.01 ppm
Water miscibility .....	Conform	Phosphate .....	≤0.5 ppm	Cu .....	≤0.01 ppm	Sn .....	≤0.02 ppm
Assay (GLC) .....	≥99.7 %	Total sulphur .....	≤1 ppm	Fe .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Resistivity .....	≥10 Mohm.cm	Ag .....	≤0.02 ppm	Ga .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Density at 20° C .....	0.784 ÷ 0.786	Al .....	≤ 50 ppb	In .....	≤0.02 ppm	Tl .....	≤0.05 ppm
Boiling point .....	82.1 ÷ 82.6 ° C	As .....	≤0.01 ppm	K .....	≤0.1 ppm	V .....	≤0.05 ppm
Water (K.F.) .....	≤500 ppm	Au .....	≤0.05 ppm	Li .....	≤0.02 ppm	Zn .....	≤ 10 ppb
Residue on evaporation .....	≤5 ppm	B .....	≤0.01 ppm	Mg .....	≤0.1 ppm	Zr .....	≤0.05 ppm
Acidity (propionic ac.) .....	≤10 ppm	Ba .....	≤0.1 ppm	Mn .....	≤0.01 ppm		
Alcalinity (NH <sub>3</sub> ) .....	≤2 ppm	Be .....	≤0.02 ppm	Mo .....	≤0.05 ppm		
Aldehydes - ketones .....	≤50 ppm	Bi .....	≤0.02 ppm	Na .....	≤0.5 ppm		

Code	Size	Packaging	Notes
415237	1 l	Glass bottle	
415235	2.5 l	Glass bottle	
415231	5 l	Metal tank	
415238	5 l	Plastic bottle	
415236	27 l	Metal drum	
415233	200 l	Metal drum	

## Propan-2-ol > RS - MOS - For electronic use

**RS**

Description .....	Clear liquid	Chloride .....	≤0.2 ppm	Ca .....	≤0.2 ppm	Na .....	≤0.5 ppm
Colour (APHA) .....	≤10	Phosphate .....	≤0.5 ppm	Cd .....	≤0.01 ppm	Ni .....	≤0.01 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤0.1 ppm	Co .....	≤0.01 ppm	Pb .....	≤0.01 ppm
Water miscibility .....	Conform	Subst. reducing KMnO <sub>4</sub> .....	≤2.5 ppm	Cr .....	≤0.01 ppm	Pt .....	≤0.05 ppm
Resistivity .....	≥10 Mohm.cm	Total sulphur .....	≤1 ppm	Cu .....	≤0.01 ppm	Sb .....	≤0.01 ppm
Assay (GLC) .....	≥99.7 %	Ag .....	≤0.02 ppm	Fe .....	≤0.1 ppm	Sn .....	≤0.02 ppm
Density at 20° C .....	0.784 ÷ 0.786	Al .....	≤0.05 ppm	Ga .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Boiling point .....	82.1 ÷ 82.6 ° C	As .....	≤0.01 ppm	In .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Water (K.F.) .....	≤500 ppm	Au .....	≤0.05 ppm	K .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Residue on evaporation .....	≤5 ppm	B .....	≤0.01 ppm	Li .....	≤0.02 ppm	V .....	≤0.05 ppm
Acidity (propionic ac.) .....	≤10 ppm	Ba .....	≤0.1 ppm	Mg .....	≤0.1 ppm	Zn .....	≤0.01 ppm
Alcalinity (NH <sub>3</sub> ) .....	≤2 ppm	Be .....	≤0.02 ppm	Mn .....	≤0.01 ppm	Zr .....	≤0.05 ppm
Aldehydes - ketones .....	≤50 ppm	Bi .....	≤0.02 ppm	Mo .....	≤0.05 ppm		

Code	Size	Packaging	Notes
415162	1 l	Glass bottle	
415161	2.5 l	Glass bottle	

## Propan-2-ol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Clear liquid	Residue on evaporation .....	≤ 10 ppm	B .....	≤ 0.02 ppm	Mg .....	≤ 0.1 ppm
Colour (APHA) .....	≤ 10	Acidity or alkalinity .....	≤ 0.0001 meq/g	Ba .....	≤ 0.5 ppm	Mn .....	≤ 0.01 ppm
Identification (I.R.) .....	Conform	Carbonyl compounds (acetone) .....	≤ 20 ppm	Ca .....	≤ 0.5 ppm	Ni .....	≤ 0.01 ppm
Water miscibility .....	Conform	Carbonyl compounds (propionaldehyde) .....	≤ 20 ppm	Cd .....	≤ 0.01 ppm	Pb .....	≤ 0.01 ppm
Density at 20° C .....	0.785 ÷ 0.789	Subst. reducing KMnO <sub>4</sub> .....	≤ 5 ppm	Co .....	≤ 0.01 ppm	Zn .....	≤ 0.01 ppm
Refractive index at 20° C .....	1.3766 ÷ 1.3786	Heavy metals (Pb) .....	≤ 1 ppm	Cr .....	≤ 0.01 ppm	Assay (GLC) .....	≥ 99.9 %
Boiling point .....	82.1 ÷ 82.6 ° C	Al .....	≤ 0.5 ppm	Cu .....	≤ 0.01 ppm		
Water (K.F.) .....	≤ 0.1 %			Fe .....	≤ 0.1 ppm		

Code	Size	Packaging	Notes
415154	1 l	Glass bottle	
524171	1 l	Spray bottle	6 units / box
415156	2.5 l	Glass bottle	
415158	2.5 l	Plastic bottle	
415173	5 l	Plastic bottle	
529174	5 l	Plastic tank	
415153	10 l	Plastic tank	
415157	25 l	Aluminium can	
524170	25 l	Plastic tank	
415152	200 l	Metal drum	

## Propan-2-ol > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-Ph.Franc.-BP

**ERBApharm**

Description .....	Clear colourless liquid	Density at 25°C .....	0.783 - 0.787	Related compounds.....	≤ 0.3 %	at 290 nm .....	≤ 0.02 AU
Identification .....	Conform	Refractive index at 20°C.....	1.376 - 1.378	Any single impurity.....	≤ 0.1 %	at 310 nm .....	≤ 0.01 AU
Appearance of solution .....	Conform Ph. Eur.	Water (K.F.) .....	≤ 0.1 %	Total impurities (GC) .....	≤ 1.0 %	UV Absorbance curve from 230 to 310	
Acidity or alkalinity (ml NaOH 0,01M).....	≤ 0.6 ml	Benzene .....	≤ 2 ppm	UV Absorbance		nm .....	Curve with no observable peaks or shoulders Ph.Eur.
Acidity (ml NaOH 0,020N).....	≤ 0.70 ml	Non volatile substances .....	≤ 20 ppm	at 230 nm .....	≤ 0.30 AU	Origin (BSE/TSE).....	Synthesis
Peroxide .....	Conform Ph.Eur.	Limit of volatiles impuritiesConform USP-NF		at 250 nm .....	≤ 0.10 AU	Residual solvents (Current ICH).....	Conform
Density at 20°C .....	0.785 - 0.789 Ph.Eur.	Assay (CPG).....	≥ 99.9 %	at 270 nm .....	≤ 0.03 AU		

Code	Size	Packaging	Notes
309501	1 l	Glass bottle	
309505	2.5 l	Glass bottle	
529165	5 l	Plastic tank	
309506	10 l	Plastic tank	
309504	25 l	Metal drum	
309507	25 l	Plastic drum	
309500	200 l	Metal drum	
309509	200 l	Plastic drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Propan-2-ol > RE - Pure

**RE**

Description .....	Clear colourless liquid	Residue on evaporation .....	≤ 20 ppm	Acidity (acetic acid).....	≤ 20 ppm
Water (K.F.) .....	≤ 2000 ppm	Refractive index at 20°C.....	1.375 ÷ 1.379	Colour .....	≤ 10 APHA

Code	Size	Packaging	Notes
529093	5 l	Plastic tank	
529092	25 l	Plastic tank	
529091	200 l	Metal drum	



## Propan-2-ol 70%

• Propan-2-olo 70% • Propane-2-ol 70% • Propan-2-ol 70% • 2-Propanol 70%

Synonym:

- 2-Propanol
- Isopropanol

CH<sub>3</sub>CHOHCH<sub>3</sub>  
Molecular Weight: 60,1  
CAS: 67-63-0

**Classification transport**  
ONU: 1219  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233

## Propan-2-ol 70% > RPE - For analysis - ACS

**RPE**

Description .....	Clear colourless liquid	Density at 20°C .....	0.856 ÷ 0.862
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Code	Size	Packaging	Notes
524161	25 l	Plastic tank	

## Propan-2-ol 70% > ERBApharm - According to pharmacopoeia: Ph.Eur.- Microbiological tested

**ERBApharm**

Description .....	Clear colourless liquid	Related substances (CPG) .....	≤ 0.3 %	Residual solvents (Current ICH).....	Conform	Test of specified micro-organisms	
Density at 20°C .....	0.856 - 0.862	Absorbance .....	Conform Ph.Eur.	Total aerobic microbial count (TAMC) ....	≤ 5 CFU/100ml	Enterobacteriaceae.....	Absent/100 ml
Assay (alcoholic) at 20°C.....	69 - 71 % (m/m)	Benzene .....	≤ 2 ppm	Total yeasts/mould count (TYMC).....	≤ 5 CFU/100ml	Staphylococcus aureus.....	Absent/100 ml
		Origin (BSE/TSE).....	Synthesis			Pseudomonas aeruginosa....	Absent/100 ml

Code	Size	Packaging	Notes
524195	5 l	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Propan-2-ol 70% > ERBApharm - Prepared from raw material according Ph.Eur

**ERBApharm**

Description ..... Clear colourless liquid    Density at 20°C ..... 0.856 ÷ 0.862    Assay (alcoholic) at 20°C ..... 69 ÷ 71 % (m/m)

Code	Size	Packaging	Notes
524182	1 l	Plastic bottle	
524183	1 l	Spray bottle	6 units / box
524184	2.5 l	Plastic bottle	
524181	5 l	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

Propanedioic acid ▶ Malonic acid

1,2-Propanediol ▶ Propylene glycol



### 1,3-Propanediol

• 1,3-Propanediolo • 1,3-Propanediol • 1,3-Propanodiol • 1,3-Propandiol

Synonym:

- 1,3-Dihydroxypropane
- Trimethylene glycol

CH<sub>2</sub>OHCH<sub>2</sub>CH<sub>2</sub>OH  
 Molecular Weight: 76,1  
 CAS: 504-63-2  
 EEC-N: 207-997-3

### 1,3-Propanediol > RE - Pure

**RE**

 Appearance ..... Clear and viscous liquid    Refractive index at 20°C ..... 1.438 - 1.442    Colour ..... ≤ 15 Hazen  
 Identification (IR) ..... Conform    Water content (K.F.) ..... ≤ 1000 mg/Kg    Assay (GC) ..... ≥ 99.7 %

Code	Size	Packaging	Notes
P8040216	1 l	Glass bottle	
P8040222	5 l	Plastic tank	
P8040268	190 l	Metal drum	

1,2,3-Propanetriol ▶ Glycerol (30°Bé)



### 1-Propanesulfonic acid sodium salt

• Acido 1-propansolfonico sale sodico • Acide 1-propanesulfonique sel sodique • Acido 1-propanosulfónico sal sódica • 1-Propan sulfonsäure-Natriumsalz

CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>Na  
 Molecular Weight: 146,14  
 CAS: 14533-63-2

### 1-Propanesulfonic acid sodium salt > RS - For ion pair chromatography

**RS**

 Description ..... White crystalline powder    Absorbance    At 220 nm ..... ≤ 0.02 AU    At 260 nm ..... ≤ 0.01 AU  
 Water (K.F.) ..... ≤ 2.0 %    At 200 nm ..... ≤ 0.05 AU    At 230 nm ..... ≤ 0.02 AU  
 Assay ..... ≥ 98.0 %    At 210 nm ..... ≤ 0.03 AU    At 250 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405901	25 g	Glass bottle	
405902	100 g	Plastic bottle	

Propanoic acid ▶ Propionic acid

2-Propanone ▶ Acetone



**Propionaldehyde**  
 • Aldeide propionica • Aldéhyde propionique • Aldehído propiónico • Propionaldehyd

Synonym:  
Propanal

CH<sub>3</sub>CH<sub>2</sub>CHO  
 Molecular Weight: 58,08  
 CAS: 123-38-6  
 EEC-N: 204-623-0

**Classification transport**  
 ONU: 1275  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H302-H315-H319-H335  
 P210-P280-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P233

**Propionaldehyde > RE - Pure**

RE

Description ..... Clear colourless liquid    Identification ..... Positive    Refractive index at 20°C. 1.3610 ÷ 1.3660    Assay (GLC) ..... ≥ 96.0 %

Code	Size	Packaging	Notes
310504	100 ml	Glass bottle	

**Propionic acid**  
 • Acido propionico • Acide propionique • Acido propiónico • Propionsäure

Synonym:  
 • Propanoic acid  
 • Propanyl acid

CH<sub>3</sub>CH<sub>2</sub>COOH  
 Molecular Weight: 74,08  
 CAS: 79-09-4  
 EEC-N: 201-176-3

**Classification transport**  
 ONU: 3463  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H226-H314  
 P210-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

**Propionic acid > RPE - For analysis**

RPE

Description ..... Clear colourless liquid    Density at 20° C ..... 0.992 ÷ 0.994    Chloride ..... ≤5 ppm    Fe ..... ≤2 ppm  
 Identification ..... Positive    Refractive index at 20°C. 1.3864 ÷ 1.3884    Heavy metals (Pb) ..... ≤5 ppm    Assay (acidimetric) ..... ≥99.5 %  
 Water miscibility ..... Conform    Boiling point ..... 140 ÷ 142 ° C    Residue on evaporation ..... ≤50 ppm  
 Alcohol miscibility ..... Conform    Water (K.F.) ..... ≤0.25 %    Sulphate ..... ≤10 ppm

Code	Size	Packaging	Notes
409551	250 ml	Glass bottle	
409553	1 l	Glass bottle	

**Propionic acid > ERBAPharm - According to pharmacopoeia: USP-NF**

ERBAPharm

Description ..... Clear colourless liquid    Distillation range ..... 138.5 - 142.5 °C    Readily oxidizable substances ..... Conform    Origin (BSE/TSE) ..... Synthesis  
 Identification (I.R.) ..... Positive    Nonvolatil residue ..... ≤ 0.01 %    Aldehyde ..... Conform    Residual solvents (Current ICH) ..... Conform  
 Density at 25°C ..... 0.988 - 0.993    Heavy metals (Pb) ..... ≤ 0.001 %    Assay (acidimetric) ..... 99.5 - 100.5 %

Code	Size	Packaging	Notes
529050	20 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Propionic acid > RE - Pure**

RE

Description ..... Yellow clear liquid    Density at 20° C ..... 0.988 ÷ 0.998    Residue on evaporation ..... ≤ 100 ppm  
 Identification ..... Positive    Refractive index at 20°C ..... 1.3854 ÷ 1.3894    Assay (acidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
306254	1 l	Glass bottle	

**n-Propyl acetate**  
 • n-Propile acetato • n-Propyle acétate • n-Propil acetato • n-Propylacetat

CH<sub>3</sub>COO(CH<sub>2</sub>)<sub>2</sub>CH<sub>3</sub>  
 Molecular Weight: 102,13  
 CAS: 109-60-4  
 EEC-N: 203-686-1

**Classification transport**  
 ONU: 1276  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H319-H336-HEU066  
 P210-P280-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P233

**n-Propyl acetate > RPE - For analysis**

RPE

Description ..... Clear liquid    Colour ..... ≤ 15 Apha    Water (K.F.) ..... ≤ 1000 ppm  
 Identification ..... Positive    Refractive index at 20°C ..... 1.3812 ÷ 1.3882    Assay (GLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
474807	1 l	Glass bottle	

## n-Propyl alcohol ▶ Propan-1-ol

**Propyl p-hydroxybenzoate**

• Propile p-ossibenzoate • Propyle p-oxybenzoate • Propil p-hidroxiobenzoato • Propyl-p-oxybenzoat

Synonym:  
Propylparaben

$\text{HOC}_6\text{H}_4\text{COO}(\text{CH}_2)_2\text{CH}_3$   
Molecular Weight: 180,21  
CAS: 94-13-3  
EEC-N: 202-307-7

**Warning**

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Propyl p-hydroxybenzoate > ERBApharm - According to pharmacopoeia: DAB-BP-FU-NF-Ph.Eur.-Ph.Franc.****ERBApharm**

Description ..... White crystalline powder      Acidity ..... Conform Ph.Eur.      Melting point .....  $96 \div 99$  °C      Origin (BSE/TSE) ..... Synthesis  
Identification ..... Positive      Related compounds ..... Conform Ph.Eur.      Sulphated ash .....  $\leq 0.1$  %  
Appearance of solution ..... Conform Ph.Eur.      Organic volatile impurities Conform USP-NF      Assay (saponification) .....  $98.0 \div 102.0$  %

Code	Size	Packaging	Notes
363953	50 g	Glass bottle	
363956	500 g	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Propylene carbonate**

• Propilene carbonato • Propylène carbonate • Propileno carbonato • Propylencarbonat

Synonym:  
1,2-Propanediol cyclic carbonate

$\text{OCH}(\text{CH}_3)\text{CH}_2\text{OCO}$   
Molecular Weight: 102,09  
CAS: 108-32-7  
EEC-N: 203-572-1

**Warning**

H319  
P264-P280i-P305+P351+P338-P337+P313

**Propylene carbonate > RPE - For analysis****RPE**

Description ..... Clear colourless liquid      Density at 20° C .....  $1.200 \div 1.206$       Boiling point .....  $241.0 \div 242.5$  °C      Assay (acidimetric) .....  $\geq 99$  %  
Identification ..... Positive      Refractive index at 20°C.  $1.4199 \div 1.4219$       Residue on ignition .....  $\leq 100$  ppm

Code	Size	Packaging	Notes
474871	1 l	Glass bottle	

**Propylene glycol**

• Glicol propilenico • Propylène glycol • Propilenglicol • Propylenglycol

Synonym:  
1,2-Propanediol

$\text{CH}_2\text{OHCHOHCH}_3$   
Molecular Weight: 76,09  
CAS: 57-55-6  
EEC-N: 200-338-0

**Propylene glycol > RPE - For analysis****RPE**

Description ..... Clear colourless liquid      Density at 20° C .....  $1.034 \div 1.038$       Alkalinity (NH<sub>4</sub>OH) .....  $\leq 0.85$  ppm      Residue on ignition .....  $\leq 70$  ppm  
Identification ..... Positive      Refractive index at 20°C.  $1.4309 \div 1.4339$       Chloride .....  $\leq 20$  ppm      Sulphate .....  $\leq 20$  ppm  
Water miscibility ..... Conform      Boiling point .....  $188.0 \div 190.0$  °C      Carbonyl Compounds (CO) .....  $\leq 100$  ppm      As .....  $\leq 2$  ppm  
Miscb. with Acetone ..... Complete      Water (K.F.) .....  $\leq 0.1$  %      Heavy metals (Pb) .....  $\leq 2$  ppm      Fe .....  $\leq 2$  ppm  
Alcohol miscibility ..... Complete      Acidity (acetic acid) .....  $\leq 20$  ppm      Peroxides (H<sub>2</sub>O<sub>2</sub>) .....  $\leq 5$  ppm      Assay (GLC) .....  $\geq 99.5$  %

Code	Size	Packaging	Notes
454054	1 l	Glass bottle	
454053	2.5 l	Glass bottle	
454052	30 kg	Plastic drum	

## Propylene glycol > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

**ERBApharm**

Description .....	Clear colourless liquid	Ethylene glycol .....	≤ 0.10 %	Density at 20° C .....	1.035 - 1.040 Ph.Eur.	Sulphated ash .....	≤70 ppm
Identification .....	Positive Ph. Eur.	Identification C. Same RT to standard by GC	USP	Density at 25°C .....	1.035 - 1.037 USP	Chloride .....	≤70 ppm
Identification A (IR) .....	Conform USP	USP		Boiling point .....	184 ÷ 189 °C	Heavy metals (Pb) .....	≤ 5 ppm (m/V)
Identification B:		Acidity .....	Conform Ph.Eur.	Refractive index at 20°C .....	1.431 ÷ 1.433	Sulphate .....	≤60 ppm
Diethylene glycol .....	≤ 0.10 %	Reducing substances .....	Conform Ph.Eur.	Water (K.F.) .....	≤0.2 %	Assay (GLC) .....	≥99.5 %
		Oxidizing substances .....	Conform Ph.Eur.				

Code	Size	Packaging	Notes
346701	1 l	Glass bottle	
346703	2.5 l	Glass bottle	
346705	60 kg	Plastic tank	
346708	200 kg	Plastic drum	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*



## Pumice stone

• Pomice • Pierre ponce • Piedra pómez • Bimsstein

CAS: 1332-09-8

## Pumice stone > RPE - For analysis

**RPE**

Description .....

Code	Size	Packaging	Notes
469971	250 g	Plastic bottle	



## Pyridine

• Piridina • Pyridine • Piridina • Pyridin

N:CHCH:CHCH:CH  
CAS: 110-86-1  
EEC-N: 203-809-9

**Classification transport**  
ONU: 1282  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H312-H332  
P210-P241-P261-P280-P303+P361+P353-  
P304+P340

## Pyridine > RS - Anhydrous - For analysis

**RS**

Water content (K.F.) .....

Code	Size	Packaging	Notes
P0671010	200 ml	Bottle with septum	
P0671016	1 l	Glass bottle	
P0671046	1 l	Glass bottle PVC coated	
P0671021	2.5 l	Glass bottle	
P0671068	200 l	Metal drum	

## Pyridine > RS - For peptide synthesis

**RS**

Water content (K.F.) .....

Code	Size	Packaging	Notes
P0673516	1 l	Glass bottle	
P0673521	2.5 l	Glass bottle	

## Pyridine > RS - For potentiometry

**RS**

Water content (K.F.) .....

Code	Size	Packaging	Notes
P06725P16	1 l	Glass bottle	

## Pyridine > RS - For titration according to Karl Fischer

**RS**

Description ..... Clear colourless liquid      Density at 20° C ..... 0.979 ÷ 0.985      Boiling point ..... 114.2 ÷ 116.2 ° C      Assay (GLC) ..... ≥99.6 %  
 Identification ..... Positive      Refractive index at 20°C. 1.5050 ÷ 1.5140      Water (K.F.) ..... ≤500 ppm

Code	Size	Packaging	Notes
469651	250 ml	Glass bottle	
469652	1 l	Glass bottle	

## Pyridine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... Clear colourless liquid      Boiling point ..... 114.2 - 116.2 ° C      Residue on evaporation ..... ≤20 ppm      Sulphate ..... ≤10 ppm  
 Identification ..... Positive      Subst. reducing KMnO4 ..... Conform      Ammonia ..... ≤20 ppm      Cu ..... ≤5 ppm  
 Water solubility ..... Conform      Water (K.F.) ..... ≤0.1 %      Chloride ..... ≤10 ppm      Assay (GLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
469622	500 ml	Glass bottle	
469629	1 l	Glass bottle	
469624	2.5 l	Glass bottle	
469626	20 kg	Plastic drum	
469621	25 kg	Metal drum	
469623	200 l	Metal drum	

## Pyridine > RE - Pure

**RE**

Description ..... Clear colourless liquid or yellowish      Density at 20° C ..... 0.979 ÷ 0.985      Water (K.F.) ..... ≤0.1 %  
 Colour ..... ≤ 20 APHA      Refractive index at 20°C ..... 1.5055 ÷ 1.5135      Residue on evaporation ..... ≤50 ppm  
 Identification ..... Positive      Boiling point ..... 113.7 ÷ 116.7 ° C      Assay (GLC) ..... ≥99.8 %

Code	Size	Packaging	Notes
358752	1 l	Glass bottle	
358754	25 kg	Metal drum	
528257	200 l	Metal drum	



## Pyridine-d5

• Piridina-d5 • Pyridine-d5 • Piridina-d5 • Pyridin-d5

Synonym:

Pentadeuteropyridine

C<sub>5</sub>D<sub>5</sub>N  
 Molecular Weight: 84,14  
 CAS: 7291-22-7  
 EEC-N: 230-720-2

**Classification transport**  
 ONU: 1282  
 Transport Hazard class: 3  
 Packing group II


**Danger**

H225-H302-H312-H332  
 P210-P241-P261-P280-P303+P361+P353-  
 P304+P340

## Pyridine-d5 > RS - For NMR - min 99.95%

**RS**

Code	Size	Packaging	Notes
P5370	2 x 0.6 ml	Glass ampoule	

**For specifications, contact our customer service for a certificate of analysis**

## Pyridine-d5 > RS - For NMR - min 99.5%

**RS**

Code	Size	Packaging	Notes
P5369A	2 x 0.75 ml	Glass ampoule	
P5364A	10 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**



## 1-(2-Pyridylazo)-2-naphthol

- 1-(2-Piridile-azo)-2-naftolo • 1-(2-Pyridyl-azo)-2-naphthol • 1-(2-Piridilazo)-2-naftol
- 1-(2-pyridyl-azo)-2-naphthol

Synonym:  
PAN

N:CHCH:CHCH:CN:NC<sub>10</sub>H<sub>6</sub>OH  
Molecular Weight: 249,27  
CAS: 85-85-8  
EEC-N: 201-637-9

### 1-(2-Pyridylazo)-2-naphthol > RPE - For analysis

RPE

Description ..... Orange red powder Identification ..... Positive Assay ..... ≥ 97.5 %

Code	Size	Packaging	Notes
469592	5 g	Glass bottle	

**Complexometric indicator. For extraction and spectrophotometric determination of the transition metals**



## Pyrocatechol

- Pirocatecolo • Pyrocatechol • Pirocatequina • Brenzkatechin

Synonym:  
• 1,2-Benzenediol  
• Catechol

1,2-(OH)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>  
Molecular Weight: 110,11  
CAS: 120-80-9  
EEC-N: 204-427-5

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



**Warning**  
H302-H312-H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Pyrocatechol > RPE - For analysis

RPE

Description ..... Grey-brown flakes Identification ..... Positive Melting point ..... 103 ÷ 105 ° C Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
469753	50 g	Glass bottle	



## Pyrocatechol violet

- Violetto pirocatechina • Violet de pyrocatechol • Violeta de pirocatequina • Brenzkatechinviolett

Synonym:  
Pyrocatecholsulfonphthalein

C<sub>19</sub>H<sub>14</sub>O<sub>7</sub>S  
Molecular Weight: 386,39  
CAS: 115-41-3  
EEC-N: 204-088-3

### Pyrocatechol violet > RPE - For analysis

RPE

Description ..... Brown crystalline powder Identification ..... Positive Sensitivity as indicat. .... Conform

Code	Size	Packaging	Notes
491871	1 g	Glass bottle	
491872	25 g	Glass bottle	

**Complexometric indicator**



## Pyrogallol

- Pirogallolo • Acide pyrogallique • Pirogalol • Pyrogallol

Synonym:  
1,2,3-Trihydroxybenzene

1,2,3-(OH)<sub>3</sub>C<sub>6</sub>H<sub>3</sub>  
Molecular Weight: 126,11  
CAS: 87-66-1  
EEC-N: 201-762-9



**Warning**  
H302-H312-H332-H341-H412  
P261-P271-P280-P304+P340-P308+P313-P330

### Pyrogallol > RPE - For analysis - ACS - Reag. Ph.Eur.

RPE

Description ..... White crystalline powder Melting point ..... 131 ÷ 135 ° C Fe ..... ≤10 ppm Sulphate ..... ≤50 ppm  
Identification (I.R.) ..... Positive Sulphated ash ..... ≤ 0.005 % Heavy metals (Pb) ..... ≤5 ppm Chloride ..... ≤10 ppm

Code	Size	Packaging	Notes
409435	250 g	Plastic bottle	



## Pyrrolidine dithiocarbamic acid ammonium salt

- Acido pirrolidinditiocarbammico sale ammonico • Acide pyrrolidinedithiocarboxylique-1,sel ammoniacal
- Acido pirrolidinditiocarbámico sal de amonio • Pyrrolidindithiocarbaminsäure-Ammoniumsalz

Synonym:  
*Ammonium pyrrolidinedithiocarbamate*

$\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{NCSSNH}_4$   
Molecular Weight: 164,29  
CAS: 5108-96-3  
EEC-N: 225-834-4

### Pyrrolidine dithiocarbamic acid ammonium salt > RPE - For analysis - Reag. Ph. Eur.

**RPE**

Description ..... White yellowish powder    Identification .....    Positive    Assay .....  $\geq 99\%$  (NH<sub>3</sub>)

Code	Size	Packaging	Notes
409471	10 g	Glass bottle	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z





## Quinaldine red

• Rosso chinaldina • Rouge de quinaldine • Rojo de quinaldina • Chinaldinrot

Synonym:

2-(4-Dimethylaminostyryl)-1-ethylquinolinium iodide

$C_{21}H_{23}IN_2$

Molecular Weight: 430,33

CAS: 117-92-0

EEC-N: 204-221-5

### Quinaldine red > RPE - For analysis

RPE

Description ..... Dark green powder Non acq.media ind.sens. .... Conform Colour change.....Incolore - rosso  
 Identification ..... Positive Loss on drying ..... ≤5 %

Code	Size	Packaging	Notes
476687	1 g	Glass bottle	
476688	25 g	Glass bottle	

**Acid-base indicator (pH 1.4 ÷ 3.2)**



## Quinidine sulfate

• Chinidina solfato • Quinidine sulfate • Quinidina sulfato • Chinidinsulfat

$(C_{20}H_{24}N_2O_2)_2 \cdot H_2SO_4 \cdot 2H_2O$

Molecular Weight: 782,96

CAS: 6591-63-5

EEC-N: 200-046-3



Warning

H302

P264-P270-P301+P312a-P330-P501a

### Quinidine sulfate > RPE - For analysis

RPE

Description ..... White crystalline powder pH sol. 1% at 25° C ..... 6.0 ÷ 6.8 Chloride..... ≤50 ppm Residue on ignition..... ≤500 ppm  
 Identification ..... Positive Specific optical rotation +275.5 ÷ +280.5 ° Alcohol/Chlorof.isolub. .... ≤500 ppm Fe ..... ≤10 ppm  
 Ready carbonizable substances..... Conform Loss on drying ..... 4.2 ÷ 5.0 % Heavy metals (Pb)..... ≤10 ppm Assay (non-aqueous medium) ..... ≥95 %

Code	Size	Packaging	Notes
436701	10 g	Glass bottle	



## Quinoline

• Chinolina • Quinoléine • Quinoleína • Chinolin

Synonym:

1-Benzazine

$C_9H_7N$

Molecular Weight: 129,16

CAS: 91-22-5

EEC-N: 202-051-6

Classification transport

ONU: 2656

Transport Hazard class: 6.1

Packing group III



Danger

H302-H312-H315-H319-H341-H350-H411-HA26

P280-P305+P351+P338-P308+P313-P330-

P332+P313-P337+P313

### Quinoline > RE - Pure

RE

Description ..... Yellow-brown clear liquid Density at 20° C ..... 1,088 ÷ 1,100 Boiling point..... 235.6 ÷ 238.6 °C Assay (GLC) ..... ≥95 %  
 Identification ..... Positive Refractive index at 20°C. 1.6218 ÷ 1.6318 Residue on ignition..... ≤0.1 %

Code	Size	Packaging	Notes
333701	100 ml	Glass bottle	
333707	1 l	Glass bottle	

## Quinone ► p-Benzoquinone



## Raffinose

• Raffinosio • Raffinose • Rafinosa • Raffinose

$C_{18}H_{32}O_{16} \cdot 5H_2O$   
 Molecular Weight: 594,51  
 CAS: 17629-30-0  
 EEC-N: 208-146-9

### Raffinose > RPE - For analysis

RPE

Description ..... White crystalline powder    Specific optical rotation..... +103 - +107 °    Total nitrogen..... ≤100 ppm    Sulphate..... ≤50 ppm  
 Identification ..... Positive    Water (K.F.)..... 13 - 17 %    Chloride..... ≤50 ppm    As..... ≤2 ppm  
 Melting point..... 78 - 80 °C    Residue on ignition..... ≤ 0.1 %    Heavy metals (Pb)..... ≤10 ppm    Fe..... ≤10 ppm

Code	Size	Packaging	Notes
475132	25 g	Glass bottle	



## Raney's alloy

• Lega Raney • Alliage de Raney • Aleación según Raney • Raney-Legierung

CAS: 12003-78-0

### Classification transport

ONU: 3089  
 Transport Hazard class: 4.1  
 Packing group III



### Danger

H228-H260-H317-H351-H372  
 P210-P223-P231a+P232-P241-P280-P308+P313

### Raney's alloy > RPE - For analysis

RPE

Description ..... Greyish metallic powder    Identification ..... Positive    Al..... ~50 %    Ni..... ~50 %

Code	Size	Packaging	Notes
457675	250 g	Plastic bottle	



## Reagent for lipolysis

• Reattivo unico per lipolisi • Réactif unique pour lipolyse • Reactivo unico para lipolisi • Reagenz für die Lipolyse

### Classification transport

ONU: 1760  
 Transport Hazard class: 8  
 Packing group III



### Warning

H290  
 P234-P390-P406

### Reagent for lipolysis > RPE - For analysis

RPE

Density at 20°C ..... 1.151 ÷ 1.161    pH at 20°C ..... 7.9 ÷ 8.3

Code	Size	Packaging	Notes
524910	2.5 l	Glass bottle	

**Composition: Reagent for copper: 90.9% HCl 0,7N: 4.55% EDTA(8% w/v): 4.55%**



## Reagent TAN

• Reattivo TAN • Réactif TAN • Reactivo TAN • TAN-Reagenz

### Classification transport

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H315-H319-H361d-H336-H373  
 P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233

### Reagent TAN > RS - For analysis

RS

Water content (K.F.) ..... 4500 - 5500 mg/Kg    Free acid (as CH3COOH)..... ≤ 5 mg/Kg    Refractive index at 20°C..... 1.433 - 1.437

Code	Size	Packaging	Notes
PS0327/21	2.5 l	Glass bottle	
PS0327/29	5 l	Plastic tank	
PS0327/39	10 l	Plastic tank	

**Composition: 495 ml propanol-2, 500ml Toluene, 5 ml water**



## Reagent TBN ASTM D2896

• Reattivo TBN ASTM D2896 • Réactif TBN ASTM D2896 • Reactivo TBN ASTM D2896 • TBN-Reagenz D2896

### Classification transport

ONU: 2924  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H314-H411  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

## Reagent TBN ASTM D2896 > RS - For analysis

RS

Refractive index at 20°C..... 1.464 - 1.469

Code	Size	Packaging	Notes
PS0423/21	2.5 l	Glass bottle	
PS0423/29	5 l	Plastic tank	
PS0423/39	10 l	Plastic tank	

**Composition: 333 ml acetic acid, 667 ml chlorobenzene**



## Reagent TBN ASTM D4739

• Reattivo TBN ASTM D4739 • Réactif TBN ASTM D4739 • Reactivo TBN ASTM D4739 • TBN-Reagenz D4739

### Classification transport

ONU: 1992  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H302-H315-H319-H351-H361d-H336-H372-  
HEU301  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233

## Reagent TBN ASTM D4739 > RS - For analysis

RS

Aspect..... Conform Density at 20°C ..... 1.036 ÷ 1.044 Water (K.F.) ..... ~ 1 % (m/m)

Code	Size	Packaging	Notes
526615	5 l	Plastic tank	

**Composition: Bidistilled water: 0.05 L, Isopropyl alcohol: 1.650 L, Toluene: 1.650 L, Chloroform: 1.650 L**



## Red for oils O

• Rosso per olio O • Rouge pour l'huile O • Rojo para aceites O • Oelrot o

### Synonym:

- Oil Red O
- 1-[2,5-Dimethyl-4-(2,5-dimethylphenylazo)phenylazo]-2-naphthol

$C_{26}H_{24}N_4O$

Molecular Weight: 408,5

CAS: 1320-06-5

EEC-N: 215-295-3

## Red for oils O > RPE - For analysis - C.I. 26125

RPE

Description ..... Red brick powder Identification ..... Positive

Code	Size	Packaging	Notes
476961	25 g	Glass bottle	

**Dye for lipoprotein in acetate cellulose capsule**



## Redox solution 220 mV at 25°C

• Soluzione Redox 220 mV a 25°C • Solution réductrice 220 mV à 25°C • Solución Redox 220 mV a 20°C • Reduktionslösung 220 mV bei 25 ° C

## Redox solution 220 mV at 25°C > RS - For electrochemistry

RS

Description ..... Yellow clear liquid Identification ..... Positive pH at 25°C ..... 6.95 ÷ 7.05 Redox potential at 25°C..... 215 ÷ 225 mV

Code	Size	Packaging	Notes
478032	500 ml	Glass bottle	

**Redox solution 468 mV at 25°C**

• Soluzione Redox 468 mV a 25°C • Solution réductrice 468 mV à 25°C • Solución Redox 468 mV a 25°C • Reduktionslösung 468 mV bei 25 °C

**Classification transport**ONU: 3264  
Transport Hazard class: LQ**Warning**H290-H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313**Redox solution 468 mV at 25°C > RS - For electrochemistry****RS**

Description .....Liquido limpido verde-marrone chiaro Identification ..... Positive Redox potential at 25°C..... 458 ÷ 478 mV

Code	Size	Packaging	Notes
478052	500 ml	Plastic bottle	

**Refractive Index standards**

• Indice di rifrazione standard • Etalons d'indice de réfraction • Patrones de índice de refracción • Brechungsindex-Standards

**Refractive Index standards > RS - For calibration****RS**

Code	Size	Packaging	Notes
540101	15 ml	Bottle	1.34325 at 20°C
540102	15 ml	Bottle	1.34782 at 20°C
540103	15 ml	Bottle	1.35171 at 20°C
540104	15 ml	Bottle	1.37233 at 20°C
540105	15 ml	Bottle	1.38115 at 20°C
540106	15 ml	Bottle	1.40978 at 20°C
540107	15 ml	Bottle	1.42009 at 20°C
540108	15 ml	Bottle	1.44193 at 20°C

Store between 2 - 8 °C

**Reinecke salt**

• Sale di Reinecke • Sel de Reinecke • Sal de Reinecke • Reinecke salt

Synonym:

Ammonium tetrarhodanodiamminechromate(III)

NH<sub>4</sub>[Cr(NH<sub>3</sub>)<sub>2</sub>(SCN)<sub>4</sub>].H<sub>2</sub>O  
Molecular Weight: 354,44  
CAS: 13573-16-5  
EEC-N: 237-003-3**Warning**H302-H312-H332-HEU032  
P261-P264-P271-P280h-P301+P312a-P304+P340**Reinecke salt > RPE - For analysis - ACS****RPE**Description ..... Dark red crystalline powder Diluted HCl-ins. matter ..... ≤500 ppm Assay (gravimetric) ..... ≥93.0 %  
Identification ..... Positive Sens.(Choline chloride) ..... ≥0.5 mg/ml

Code	Size	Packaging	Notes
420672	25 g	Glass bottle	

**Resorcinol**


• Resorcina • Résorcine • Resorcina • Resorcin

Synonym:

1,3-Benzenediol

1,3-(OH)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>  
Molecular Weight: 110,11  
CAS: 108-46-3  
EEC-N: 203-585-2**Classification transport**ONU: 2876  
Transport Hazard class: 6.1  
Packing group III**Warning**H302-H315-H319-H400  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313**Resorcinol > RPE - For analysis****RPE**Description ..... White flakes Melting point ..... 109 ÷ 111 °C Assay (GLC) ..... ≥ 97.5 %  
Identification ..... Positive Residue on ignition ..... ≤ 0.1 %

Code	Size	Packaging	Notes
476565	250 g	Plastic bottle	

	<b>L(+)-Rhamnose</b> • L(+)-Ramosio • L(+)-Rhamnose • L(+)-Ramnosa • L(-)-Rhamnose	Synonym: 6-Deoxy-L-mannose
	$C_6H_{12}O_5 \cdot H_2O$ Molecular Weight: 182,17 CAS: 10030-85-0 EEC-N: 222-793-4	

### L(+)-Rhamnose > RPE - For analysis

**RPE**

Appearance ..... White to pale cream crystalline powder      Identification (FTIR) ..... Conforms      Melting point ..... 87 - 94 °C  
 Assay (HPLC) ..... ≥ 98.5 %      Water (K.F.) ..... 9 - 11 %      Optical Rotation (C=10 in water, 20h) ..... +7 - +9 °

Code	Size	Packaging	Notes
476312	25 g	Glass bottle	

	<b>Rhenium standard solution</b> • Renio standard soluzione • Rhénium solution standard • Renio, solución patrón • Rhenium-Standardlösung
	Classification transport ONU: 3264

### Rhenium standard solution > RS - Standard solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
505802	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505805	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid


**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Rhenium standard solution > RS - Standard solution for AAS

**RS**

Code	Size	Packaging	Notes
507754	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507513	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

	<b>Rhodium standard solution</b> • Rodio standard soluzione • Rhodium solution standard • Rodio, solución patrón • Rhodium-Standardlösung
	Classification transport ONU: 1760 Transport Hazard class: 8 Packing group III

### Rhodium standard solution > RS - Standard solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
505807	100 ml	Plastic bottle	conc. 10 ppm Matrix: Hydrochloric acid
505808	100 ml	Plastic bottle	conc. 100 ppm Matrix: Hydrochloric acid
505809	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Rhodium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503861	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503863	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503865	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

**Rhodol solution**

• Rhodol soluzione • Solution Rhodol • Rhodol solución • Rhodol-Lösung

H412-HEU208  
P273-P501a

**Rhodol solution > RS - For analysis**

RS

Refractive index at 20°C ..... 1.342 - 1.346

Code	Size	Packaging	Notes
PS0158/15	1 l	Plastic bottle	
PS0158/29	5 l	Plastic tank	

**Riboflavine**

• Riboflavina • Riboflavine • Riboflavina • Riboflavin

Synonym:  
Vitamin B2

$C_{17}H_{20}O_6N_4$   
Molecular Weight: 376,37  
CAS: 83-88-5  
EEC-N: 201-507-1

**Riboflavine > RE - Pure**

RE

Description ..... Yellow-orange powder s.s. Lumiflavine (spectr.) ..... ≤ 0.025 A  
Identification ..... Positive Loss on drying ..... ≤ 1.5 % Titolo (fluorimetrico) ..... 98.0 ÷ 102.0 % s.s.  
Absorbance ..... Conform Sulphated ash ..... ≤ 0.1 %  
Pot. rot. spec. a20°C (c=0.5;NaOH 0.05N) ..... -115 ÷ -135 ° Lumiflavine (TLC) ..... ≤ 0.025 %

Code	Size	Packaging	Notes
389511	10 g	Glass bottle	

**D(-)Ribose**

• D(-)Ribosio • D(-)Ribose • D(-)Ribosa • D(-)-Ribose

$C_5H_{10}O_5$   
Molecular Weight: 150,13  
CAS: 50-69-1  
EEC-N: 200-059-4

**D(-)Ribose > RPE - For analysis**

RPE

Description ..... Yellowish powder Loss on drying ..... ≤ 1 % ÷ -20.8 ° Heavy metals (Pb) ..... ≤ 10 ppm  
Identification ..... Positive Potere rotat. spec. a 20°C (C=4; H2O)-19.2 Separazione (TLC) ..... ≥ 99.50 % Residue on ignition ..... ≤ 0.1 %

Code	Size	Packaging	Notes
476608	5 g	Glass bottle	





## Rice starch

• Amido di riso • Amidon de riz • Almidón de arroz • Reisstärke

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
CAS: 9005-25-8  
EEC-N: 232-679-6

### Rice starch > ERBApharm - According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

**ERBApharm**

Description .....	White powder	Loss on drying .....	≤ 15.0 %	Zolfo biossido.....	≤ 50 ppm	TYMC .....	≤ 100 CFU/g
Identification .....	Positive	Sulphated ash .....	≤ 0.6 %	Oxidizing substances .....	≤ 0.002 %	Escherichia coli .....	Absent Ph.Eur.
Microscopic test.....	Conform Ph.Eur.	pH (sosp. 20%) .....	5.0 ÷ 8.0	Microbial tests		Salmonella.....	Absent Ph. Eur.
Foreign cellular elem. ....	Conform Ph.Eur.	Fe .....	≤ 10 ppm	TAMC .....	≤ 1000 CFU/g		

Code	Size	Packaging	Notes
313107	1 kg	Plastic bottle	
313108	2.5 kg	Plastic bottle	
313109	5 kg	Plastic tank	
313102	25 kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Rosolic acid

• Acido p-rosolico • Acide p-rosolique • Acido p-rosólico • Rosolsäure

Synonym:

- 4-[Bis(4-hydroxyphenyl)methylene]-2,5-cyclohexadienone
- Aurin

C<sub>19</sub>H<sub>14</sub>O<sub>3</sub>  
Molecular Weight: 290,32  
CAS: 603-45-2  
EEC-N: 210-041-8



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Rosolic acid > RPE - For analysis - C.I. 43800

**RPE**

Description .....	Red - brown crystalline powder	Loss on drying .....	≤ 10 %	pH range .....	6.2 ÷ 8.2
Identification .....	Positive	Colour change.....	yellow red		

Code	Size	Packaging	Notes
409702	25 g	Glass bottle	

**Dye for microscopy (bacteriology). Indicator acid - base**



## Rubidium standard solution

• Rubidio standard soluzione • Rubidium solution standard • Rubidio, solución patrón • Rubidium-Standardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Rubidium standard solution > RS - Standard solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
505792	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505795	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Rubidium standard solution > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
503841	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503843	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503845	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503847	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Rubidium standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507755	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507514	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Ruthenium standard solution

• Rutenio standard soluzione • Ruthénium solution standard • Rutenio, solución patrón • Ruthenium-Standardlösung

## Classification transport

ONU: 3264  
 Transport Hazard class: 8  
 Packing group III



## Danger

H290-H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## Ruthenium standard solution &gt; RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505812	100 ml	Plastic bottle	conc. 10 ppm Matrix: Hydrochloric acid
505815	100 ml	Plastic bottle	conc. 100 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Ruthenium standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503871	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503873	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503875	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
503877	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Saccharose ▶ D(+)-Sucrose



### Safranine T

• Safranina T • Safranine T • Safranina T • Safranin T

Synonym:  
Basic Red 2

$C_{20}H_{19}ClN_4$   
Molecular Weight: 350,85  
CAS: 477-73-6  
EEC-N: 207-518-8



#### Warning

H302-H319  
P264-P280i-P301+P312a-P305+P351+P338-  
P337+P313-P501a

### Safranine T > RS - For microscopy - C.I. 50420

RS

Description ..... Red brown powder Identification ..... Positive

Code	Size	Packaging	Notes
477232	25 g	Glass bottle	

**Dye for bacteriology, cytology**



### Safranine T hydroalcoholic solution for Gram-Hucker Kit

• Safranina T soluzione idroalcolica per kit Gram-Hucker  
• Safranine T solution hydroalcoolique pour kit de Gram-Hucker  
• Safranina T solución hidroalcohólica para kit Gram-Hucker  
• Safranin T hydroalkoholische Lösung für Gram-Hucker Kit

Synonym:  
Basic Red 2

$C_{20}H_{19}ClN_4$   
Molecular Weight: 350,85  
CAS: 477-73-6

HEU210

### Safranine T hydroalcoholic solution for Gram-Hucker Kit > RS - For bacteriology

RS

Description ..... Red clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
477241	250 ml	Glass bottle	In Vitro Diagnostic Medical Device



### Salicylaldehyde azine

• Salicilaldeide azina • Salicylaldéhyde-azine • Salicilaldehido azina • Salicylaldehyd Azin

### Salicylaldehyde azine > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611075500	100 ml	Glass bottle	Ref Ph.Eur 1075500



### Salicylic acid

• Acido salicílico • Acide salicylique • Acido salicílico • Salicylsäure

Synonym:  
2-Hydroxybenzoic acid

$2-HOC_6H_4COOH$   
Molecular Weight: 138,12  
CAS: 69-72-7  
EEC-N: 200-712-3



#### Danger

H302-H315-H318-H335  
P304+P340-P310a-P305+P351+P338-P330-  
P362+P364-P403+P233

### Salicylic acid > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder Melting point ..... 158.0 ÷ 161.0 °C Residue on ignition ..... ≤100 ppm Assay (HPLC) ..... ≥99.0 %  
Identification ..... Positive Chloride ..... ≤10 ppm Sulphate ..... ≤30 ppm  
Ready carbonizable substances ..... Conform Heavy metals (Pb) ..... ≤5 ppm Fe ..... ≤2 ppm

Code	Size	Packaging	Notes
409773	100 g	Plastic bottle	
409777	1 kg	Plastic bottle	

**Salicylic acid > ERBApharm - According to pharmacopeia: FU****ERBApharm**

Description .....	White crystalline powder	Melting point.....	158.0 ÷ 161.0 °C	Sulphate.....	≤200 ppm	Residual solvents (Current ICH).....	Conform
Identification .....	Positive	Loss on drying .....	≤0.5 %	Heavy metals (Pb).....	≤20 ppm		
Appearance of solution .....	Conform F.U.	Sulphated ash.....	≤0.1 %	Assay (acidimetric) .....	99.0 ÷ 100.5 % s.s.		
Related substances (HPLC) .....	Conform	Chloride.....	≤100 ppm	Origin (BSE/TSE).....	Synthesis		

Code	Size	Packaging	Notes
306381	1 kg	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Salicylic acid > ERBApharm - According to pharmacopeia: Ph.Eur.-USP-FU****ERBApharm**

Description .....	White crystalline powder	Melting point.....	158.0 ÷ 161.0 °C	Sulphate.....	≤200 ppm	Residual solvents (Current ICH).....	Conform
Identification .....	Positive	Loss on drying .....	≤0.5 %	Heavy metals (Pb).....	≤20 ppm		
Appearance of solution .....	Conform Ph.Eur.	Sulphated ash.....	≤500 ppm	Assay (acidimetric) .....	99.5 ÷ 100.5 % s.s.		
Related compounds.....	Conform PhEur	Chloride.....	≤100 ppm	Origin (BSE/TSE).....	Synthesis		

Code	Size	Packaging	Notes
306377	1 kg	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Salmiac ▶ Ammonium chloride****Samarium standard solution**

• Samario standard soluzione • Samarium solution standard • Samario, solución patrón • Samarium-Standardlösung

**Classification transport**

ONU: 3264  
 Transport Hazard class: 8  
 Packing group III

**Samarium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505852	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505855	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Samarium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503931	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503933	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503935	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503937	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Samarium standard solution > RS - Standard solution for AAS****RS**

Code	Size	Packaging	Notes
507756	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507515	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Sand of Fontainebleau

• Sabbia di Fontainebleau • Sable de Fontainebleau • Arena de Fontainebleau • Sand von Fontainebleau

Synonym:  
Silica

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 14808-60-7  
EEC-N: 238-878-4

### Sand of Fontainebleau > RS - For agroalimentary analysis

RS

Density at 20°C ..... 2 ÷ 3    Granulometry ..... 180 ÷ 500 micrometer

Code	Size	Packaging	Notes
502064	1 kg	Plastic bottle	
502063	5 kg	Plastic bucket	
502062	25 kg	Plastic bucket	



## Sand purified

• Sabbia purificata • Sable purifié • Arena purificada • Sand gereinigt

Synonym:  
Silica

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 14808-60-7  
EEC-N: 238-878-4

### Sand purified > RS - For flash chromatography

RS

Description ..... Hazel granules    Identification ..... Positive    Particle size (40÷100) ..... Conform mesh

Code	Size	Packaging	Notes
477153	1 kg	Plastic bottle	



## Saponin

• Saponina • Saponine • Saponina • Saponin

CAS: 8047-15-2  
EEC-N: 232-462-6



### Warning

H335  
P261-P271-P304+P340-P312a-P403+P233-P501a

### Saponin > RE - Pure

RE

Description ..... Yellow powder    Identification ..... Positive    pH 1% at 25°C ..... 5.0 - 6.5    Water ..... ≤ 5 %

Code	Size	Packaging	Notes
365755	250 g	Plastic bottle	
365757	1 kg	Plastic bottle	
365758	5 kg	Plastic tank	



## Saybolt Colour Standards

• Standard del colore Saybolt • Etalons couleurs Saybolt • Patrones de color Saybolt • Saybolt Farbstandards

### Saybolt Colour Standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540709	100 ml	Glass bottle	-15
540710	100 ml	Glass bottle	+0
540711	100 ml	Glass bottle	+12
540712	100 ml	Glass bottle	+15
540713	100 ml	Glass bottle	+19
540714	100 ml	Glass bottle	+25
540715	100 ml	Glass bottle	+30

**Scandium standard solution**

• Scandio standard soluzione • Scandium solution standard • Escandio, solución patrón • Scandium-Standardlösung

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Scandium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505837	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505838	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505839	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Scandium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503901	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503903	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503905	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503907	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Scandium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507757	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507516	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Schiff's reagent for Aldehydes**

• Schiff reattivo soluzione per Aldeidi • Réactif de Schiff pour Aldéhydes • Schiff reattivo solución para Aldehídos • Schiff-Reagens für Aldehyde

**Danger**H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Schiff's reagent for Aldehydes > RS - For analysis**

RS

Description ..... Clear colourless or light yellow liquid    Identification ..... Positive

Code	Size	Packaging	Notes
477601	500 ml	Glass bottle	



**Schiff's reagent for PAS coloration**

• Schiff reattivo per colorazione PAS • Réactif de Schiff pour PAS coloration • Schiff reattivo solución para PAS coloración • Schiff-Reagenz für NICHT Färbung

**Warning**

H290-H319  
P234-P264-P280i-P305+P351+P338-  
P337+P313-P406

**Schiff's reagent for PAS coloration > RS - For histology****RS**

Description ..... Yellow clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
477591	500 ml	Glass bottle	In Vitro Diagnostic Medical Device
477592	6 x 500 ml	Glass bottle	In Vitro Diagnostic Medical Device

**Sebacic acid**

• Acido sebáico • Acide sébacique • Acido sebáico • Sebacinssäure

Synonym:

*Decanedioic acid*

HOOC(CH<sub>2</sub>)<sub>8</sub>COOH  
Molecular Weight: 202,25  
CAS: 111-20-6  
EEC-N: 203-845-5

**Sebacic acid > RE - Pure****RE**

Description ..... White granular powder Melting point ..... 132.5 ÷ 136.5 °C Assay (GLC) ..... ≥94 %  
Identification ..... Positive Residue on ignition ..... ≤0.1 %

Code	Size	Packaging	Notes
409875	250 g	Plastic bottle	

**Selenic mixture**

• Miscela selenica • Mélange séléinique • Mezcla selenica • Selenmischung

**Warning**

H319-H411  
P264-P280i-P305+P351+P338-P337+P313-P391-  
P501a

**Selenic mixture > RS - For nitrogen detection according to Wieninger****RS**

Description ..... Pads or dark gray powder Identification ..... Positive

Code	Size	Packaging	Notes
463421	250 g	Plastic bottle	
463422	1 kg	Plastic bottle	

**Selenium, powder**

• Selenio, polvere • Sélénium, poudre • Selenio, polvo • Selen

Se  
Molecular Weight: 78,96  
CAS: 7782-49-2  
EEC-N: 231-957-4

**Classification transport**

ONU: 3288  
Transport Hazard class: 6.1  
Packing group II

**Danger**

H301-H331-H373-H413  
P271-P301+P310a-P304+P340-P311a-P330-  
P403+P233

**Selenium, powder > RPE - For analysis****RPE**

Description ..... Blackish powder Cu ..... ≤ 100 ppm Pb ..... ≤ 500 ppm  
Identification ..... Positive Fe ..... ≤ 100 ppm Te ..... ≤ 500 ppm  
As ..... ≤ 100 ppm Hg ..... ≤ 100 ppm Assay ..... ≥ 99.50 % (Se)

Code	Size	Packaging	Notes
477702	25 g	Glass bottle	

**Selenium standard solution**

• Selenio standard soluzione • Sélénium solution standard • Selenio, solución patrón • Selen-Standardlösung

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group II**Danger**H290-H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233**Selenium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615002501	100 ml	Plastic bottle	A 1 ppm solution Ref Ph.Eur 5002501
615002500	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5002500

**Selenium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505842	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505845	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505843	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Selenium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503911	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503913	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503915	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503917	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Selenium standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear pinky liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507758	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507491	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497625	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497621	500 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Selenium standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear pinkish liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
477691		Plastic ampoule	conc. 1.000 ppm Matrix: Water - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Selenium dioxide

• Selenio biossido • Sélénium dioxyde • Selenio dióxido • Selendioxid

SeO<sub>2</sub>  
Molecular Weight: 110,96  
CAS: 7446-08-4  
EEC-N: 231-194-7

**Classification transport**  
ONU: 3283  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H331-H373-H410  
P271-P301+P310a-P304+P340-P311a-P330-P403+P233

### Selenium dioxide > RPE - For analysis

RPE

Description ..... White-pink crystals Chloride..... ≤ 500 ppm Pb ..... ≤ 50 ppm  
Identification ..... Positive Fe ..... ≤ 50 ppm Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
477762	25 g	Glass bottle	



## Selenous acid

• Acido selenioso • Acide sélénieux • Acido selenioso • Selenige Säure

H<sub>2</sub>SeO<sub>3</sub>  
Molecular Weight: 128,98  
CAS: 7783-00-8  
EEC-N: 231-974-7

**Classification transport**  
ONU: 3283  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H331-H373-H410  
P271-P301+P310a-P304+P340-P311a-P330-P403+P233

### Selenous acid > RPE - For analysis

RPE

Description ..... Whitish powder Identification ..... Positive Assay (iodometric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
409964	100 g	Glass bottle	



## Silica gel 60A 6 - 35μ

• Gel di silice 60A 6 - 35μ • Gel de silice 60A 6 - 35μ • Gel de silice 60A 6 - 35μ • Kieselgel 60A 6 - 35μ

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 7631-86-9

### Silica gel 60A 6 - 35μ > RS - For chromatography

RS

Particle size ..... 6 - 35 μm Particle size > 10.1 μm ..... ≥ 90 % Particle size > 6.4 μm ..... ≥ 98 %  
Loss on drying ..... ≤ 6 % Particle size > 40.3 μm ..... ≤ 10 %

Code	Size	Packaging	Notes
P2010017	1 kg	Plastic bottle	
P2010027	5 kg	Plastic bucket	
P2010044	25 kg	Plastic drum	

**400-2500 mesh. Stir before use**



## Silica gel 60A 20 - 45μ

• Gel di silice 60A 20 - 45μ • Gel de silice 60A 20 - 45μ • Gel de silice 60A 20 - 45μ • Kieselgel 60A 20 - 45μ

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 7631-86-9

### Silica gel 60A 20 - 45μ > RS - For chromatography

RS

Particle size ..... 20 - 45 μm Particle size > 16 μm ..... ≥ 98 % Particle size > 64.0 μm ..... ≤ 4 %  
Loss on drying ..... ≤ 6 % Particle size > 20.2 μm ..... ≥ 90 %

Code	Size	Packaging	Notes
P2200017	1 kg	Plastic bottle	
P2200027	5 kg	Plastic bucket	

**325 - 625 mesh. Stir before use**

**Silica gel 60A 35 - 70 $\mu$** • Gel di silice 60A 35 - 70 $\mu$  • Gel de silice 60A 35 - 70 $\mu$  • Gel de silice 60A 35 - 70 $\mu$  • Kieselgel 60A 35 - 70 $\mu$ SiO<sub>2</sub>

Molecular Weight: 60,09

CAS: 7631-86-9

**Silica gel 60A 35 - 70 $\mu$  > RS - For chromatography**

RS

Particle size ..... 35 ÷ 70  $\mu$ m    Particle size >63  $\mu$ m ..... ≤ 10 %    pH (5% m/m solution) ..... 6.5 ÷ 7.5  
 Particle size <40  $\mu$ m ..... ≤ 15 %    Loss on drying ..... ≤ 8.0 %

Code	Size	Packaging	Notes
P2000017	1 kg	Plastic bottle	
P2000026	2 kg	Plastic bottle	
P2000027	5 kg	Plastic bucket	
P2000044	25 kg	Plastic drum	

**220 - 400 mesh. Stir before use****Silica gel 60A 35 - 70 $\mu$  > RS - For Flash chromatography**

RS

Description ..... White powder    Nitrate ..... ≤150 ppm    Ni ..... ≤5 ppm    > 32.0  $\mu$ m ..... ≥ 87.0 %  
 Identification ..... Positive    Sulphate ..... ≤700 ppm    Pb ..... ≤5 ppm    > 80.7  $\mu$ m ..... ≤ 3.0 %  
 pH suspension 10% H<sub>2</sub>O ..... 6.2 ÷ 7.2    Cd ..... ≤5 ppm    Zn ..... ≤5 ppm  
 Chloride ..... ≤100 ppm    Cu ..... ≤5 ppm    Granulometry  
 Apparent density ..... 380 ÷ 420 g/l    Fe ..... ≤50 ppm    > 20.2  $\mu$ m ..... ≥ 99.0 %

Code	Size	Packaging	Notes
453351	100 g	Plastic bottle	
453352	500 g	Plastic bottle	
453353	1 kg	Plastic bottle	
453355	5 kg	Plastic tank	

**220 - 400 mesh****Silica gel 60A 40 - 63 $\mu$** • Gel di silice 60A 40 - 63 $\mu$  • Gel de silice 60A 40 - 63 $\mu$  • Gel de silice 60A 40 - 63 $\mu$  • Kieselgel 60A 40 - 63 $\mu$ SiO<sub>2</sub>

Molecular Weight: 60,09

CAS: 7631-86-9

**Silica gel 60A 40 - 63 $\mu$  > RS - For chromatography**

RS

Particle size ..... 40 ÷ 63  $\mu$ m    Particle size >63  $\mu$ m ..... ≤ 10 %    pH (5% m/m solution) ..... 6.5 ÷ 7.5  
 Particle size <40  $\mu$ m ..... ≤ 15 %    Loss on drying ..... ≤ 6 %

Code	Size	Packaging	Notes
P2050017	1 kg	Plastic bottle	
P2050027	5 kg	Plastic bucket	
P2050044	25 kg	Metal bucket	

**230 - 400 mesh. Stir before use**



## Silica gel 60A 70 - 200 $\mu$

• Gel di silice 60A 70 - 200 $\mu$  • Gel de silice 60A 70 - 200 $\mu$  • Gel de silice 60A 70 - 200 $\mu$  • Kieselgel 60A 70 - 200 $\mu$

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 7631-86-9

### Silica gel 60A 70 - 200 $\mu$ > RS - For chromatography

RS

Particle size ..... 70 ÷ 200  $\mu$ m    Particle size >200  $\mu$ m ..... ≤ 10 %    pH (5% m/m solution) ..... 6.5 - 7.5  
Particle size <60  $\mu$ m ..... ≤ 10 %    Loss on drying ..... ≤ 6.0 %

Code	Size	Packaging	Notes
P2100017	1 kg	Plastic bottle	
P2100026	2 kg	Plastic bottle	
P2100027	5 kg	Plastic bucket	
P2100044	25 kg	Plastic drum	

70 - 220 mesh. Stir before use



## Silica gel 60A 0,06÷0,20 mm

• Gel di silice 60A 0,06÷0,20 mm • Gel de silice 60A 0,06÷0,20 mm • Gel de silice 60A 0,06÷0,20 mm  
• Kieselgel 60A 0.06 ÷ 0.20 mm

Synonym:  
• Silica  
• Silicon dioxide

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 7631-86-9

### Silica gel 60A 0,06÷0,20 mm > RS - For chromatography

RS

Description ..... White powder    pH suspension 10% H<sub>2</sub>O ..... 6.5 ÷ 7.5    > 0.20 mm ..... ≤ 5 %  
Identification ..... Positive    < 0.06 mm ..... ≤ 5 %

Code	Size	Packaging	Notes
453336	500 g	Plastic bottle	
453337	1 kg	Plastic bottle	
453332	5 kg	Plastic bucket	
453331	20 kg	Plastic bucket	

70 - 230 mesh



## Silica gel granular

• Gel di silice granulare • Gel de silice granulés • Gel de silice granulado • Kieselgel granuliert

Synonym:  
• Silica  
• Silicon dioxide

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 7631-86-9

### Silica gel granular > RE - Pure

RE

Description ..... White granules    Identification ..... Positive    Functionality ..... Conform

Code	Size	Packaging	Notes
453278	10 x 50 g	Carton box	
453272	10 x 100 g	Carton box	
453273	10 x 250 g	Carton box	
453275	10 x 500 g	Carton box	
453277	1 kg	Plastic bottle	
453279	5 kg	Plastic tank	

**Silica gel granular with indicator cobalt free**

- Gel di silice granulare con indicatore esente da cobalto
- Gel de silice granulés avec indicateur exempt de cobalt
- Gel de sílice granulada sin cobalto
- Kieselgelgranulat mit kobaltfreiem Indikator

Synonym:

- Silica
- Silicon dioxide

SiO<sub>2</sub>

Molecular Weight: 60,09

CAS: 7631-86-9

**Silica gel granular with indicator cobalt free > RE - Pure****RE**

Description ..... Small bags containing yellowish granules Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
453317	1 kg	Plastic bottle	
453319	5 kg	Plastic tank	
453315	25 kg	Plastic bucket	

**Silicon standard solution**

- Silicio standard soluzione
- Silicium solution standard
- Silicio, solución patrón
- Silizium-Standardlösung

**Classification transport**

ONU: 3264

Transport Hazard class: 8

Packing group III

**Danger**

H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Silicon standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505847	100 ml	Plastic bottle	conc. 10 ppm Matrix: Water
505848	100 ml	Plastic bottle	conc. 100 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Silicon standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503921	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503923	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503925	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Water
503927	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Water
504271	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
504273	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
504275	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid and hydrofluoric acid
504277	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Silicon standard solution > RS - Standard solution for AAS****RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497635	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Water
E497631	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Silicon standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
477961		Plastic ampoule	conc. 1.000 ppm Matrix: Water - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Silicon carbide ▶ Carborundum, granules



### Silicon dioxide

• Silicio biossido • Silicium dioxyde • Silicio dióxido • Siliciumdioxid

Synonym:  
Silica

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 14808-60-7  
EEC-N: 238-878-4



#### Warning

H373  
P260-P314-P501a

## Silicon dioxide > RPE - For analysis

RPE

Description ..... White powder Identification ..... Positive Loss on ignition ..... ≤ 0.5 % Assay ..... ≥ 99.5 %

Code	Size	Packaging	Notes
422104	100 g	Plastic bottle	
422106	500 g	Plastic bottle	



### Silicotungstic acid

• Acido silicotungstico • Acide silicotungstique • Acido silicotúngstico • Kieselwolframsäure

Synonym:  
Tungstosilicic acid hydrate

SiO<sub>2</sub>·12WO<sub>3</sub>·26H<sub>2</sub>O  
Molecular Weight: 3310,66  
CAS: 12027-43-9



#### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

## Silicotungstic acid > RPE - For analysis

RPE

Description ..... White powder Identification ..... Positive Solubility ..... Clear colourless liquid Loss on ignition ..... 14.0 - 16.2 %

Code	Size	Packaging	Notes
410051	10 g	Glass bottle	



### Silver, sheet

• Argentó, lamina • Argent, lames • Plata, hojas • Silber, Blatt

Ag  
Molecular Weight: 107,87  
CAS: 7440-22-4  
EEC-N: 231-131-3

## Silver, sheet > RPE - For analysis

RPE

Description ..... Lamina Identification ..... Positive Assay ..... ≥99.9 %

Code	Size	Packaging	Notes
423752	25 g	Bag	0.5 mm

**Silver, wool**

• Argento, lana • Argent, laine • Plata, lana • Silber, Wolle

Ag  
 Molecular Weight: 107,87  
 CAS: 7440-22-4  
 EEC-N: 231-131-3

**Silver, wool > RS - For microanalysis**

RS

Description ..... Lana Identification ..... Positive Assay ..... ≥99.9 %

Code	Size	Packaging	Notes
423791	5 g	Glass bottle	

**Silver standard solution**

• Argento standard soluzione • Argent solution standard • Plata, solución patrón • Silberstandardlösung

**Classification transport**

ONU: 3264  
 Transport Hazard class: 8  
 Packing group III

**Danger**

H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

**Silver standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615002609	100 ml	Glass bottle	A 5 ppm solution: to dilute according to Ref Ph.Eur 5002600

**Silver standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505302	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505305	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505303	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Silver standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503401	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503403	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503405	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503407	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Silver standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507526	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507480	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Silver standard solution > RS - NORMEX - Concentrated solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
423611		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volometric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Silver acetate

• Argento acetato • Argent acétate • Plata acetato • Silberacetat

 Synonym:  
Acetic acid silver salt

CH<sub>3</sub>COOAg  
Molecular Weight: 166,92  
CAS: 563-63-3  
EEC-N: 209-254-9



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

## Silver acetate > RE - Pure

**RE**

Description ..... White greyish powder Identification ..... Positive Assay (argentimetric) ..... ≥98 %

Code	Size	Packaging	Notes
319502	25 g	Glass bottle	
319507	250 g	Plastic bottle	



## Silver carbonate

• Argento carbonato • Argent carbonate • Plata carbonato • Silbercarbonat

Ag<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 275,75  
CAS: 534-16-7  
EEC-N: 208-590-3



### Danger

H318-H410  
P273-P280i-P305+P351+P338-P310a-P391-P501a

## Silver carbonate > RE - Pure

**RE**

Description ..... Yellow-green powder Identification ..... Positive Substances not ppt HCl ..... ≤1 % Assay (argentimetric) ..... 99.5 ÷ 101.5 %

Code	Size	Packaging	Notes
320002	25 g	Glass bottle	
320007	250 g	Glass bottle	



## Silver chloride

• Argento cloruro • Argent chlorure • Plata cloruro • Silberchlorid

AgCl  
Molecular Weight: 143,32  
CAS: 7783-90-6  
EEC-N: 232-033-3

### Classification transport

ONU: 3077  
Transport Hazard class: 9  
Packing group III



### Warning

H410  
P273-P391-P501a

## Silver chloride > RE - Pure

**RE**

Description ..... Whitish irregular granules  
Identification ..... Positive  
Al ..... ≤ 60 ppm  
Ca ..... ≤ 60 ppm  
Cu ..... ≤ 100 ppm  
Fe ..... ≤ 100 ppm  
Mg ..... ≤ 60 ppm  
Mn ..... ≤ 60 ppm  
Ni ..... ≤ 60 ppm  
Pb ..... ≤ 60 ppm

Code	Size	Packaging	Notes
320502	25 g	Glass bottle	
320504	100 g	Glass bottle	

**Silver diethyldithiocarbamate**

• Argento dietilditiocarbammato • Argent diéthylidithiocarbamate • Plata dietilditiocarbamato  
• Silberdiethyldithiocarbaminat

Synonym:

- DETC
- Diethyldiocarbamic acid silver salt

(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NCSSAg  
Molecular Weight: 256,14  
CAS: 1470-61-7  
EEC-N: 216-003-7

**Silver diethyldithiocarbamate > RPE - For analysis****RPE**

Appearance Light yellow crystalline powder Assay (C<sub>5</sub>H<sub>10</sub>AgNS<sub>2</sub>) ..... ≥ 99 % Insoluble matter in water ..... ≤ 0.1 % Loss on drying ..... ≤ 0.1 %

Code	Size	Packaging	Notes
423913	10 g	Glass bottle	

**Silver manganese paper**

• Carta di manganese d'argento • Papier argent manganèse • Papel de plata de manganeso • Silber-Mangan-Papier

H412  
P273-P501a

**Silver manganese paper > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611078200	50 stripes	Tube	Ref Ph.Eur 1078200

**Silver nitrate**

• Argento nitrato • Argent nitrate • Plata nitrato • Silbernitrat

Synonym:

Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8  
EEC-N: 231-853-9

**Classification transport**

ONU: 1493  
Transport Hazard class: 5.1  
Packing group II

**Danger**

H272-H290-H314-H410  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Silver nitrate > RPE - For analysis - ACS****RPE**

Description ..... White crystals Fee acidity ..... Conform ACS Sulphate ..... ≤20 ppm Pb ..... ≤10 ppm  
Identification ..... Positive Substances not ppt HCl ..... ≤100 ppm Cu ..... ≤2 ppm Assay (argentimetric) ..... ≥99.0 %  
Appearance of solution ..... Conform ACS Chloride ..... ≤5 ppm Fe ..... ≤2 ppm

Code	Size	Packaging	Notes
423952	25 g	Glass bottle	
423954	100 g	Glass bottle	
423955	250 g	Glass bottle	
423957	1 kg	Plastic bottle	

**Silver nitrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB****ERBApharm**

Description ..... White crystalline powder Appearance of solution ..... Conform USP-NF Al,Pb,Cu,Bi ..... Conform Ph.Eur. Assay (argentimetric) ..... 99.8 ÷ 100.5 %  
Identification ..... Positive Acidity or alkalinity ..... Conform Ph.Eur. Foreign salts ..... ≤ 0.3 %

Code	Size	Packaging	Notes
320904	100 g	Glass bottle	
320907	1 kg	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Silver nitrate solution 5%

• Argento nitrato soluzione 5% • Argent nitrate solution 5% • Plata nitrato solución 5% • Silbernitrat 5%

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314-H411  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Silver nitrate solution 5% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Density at 15° C ..... 1.036 ÷ 1.044    Assay ..... 4.0 ÷ 6.0 %

Code	Size	Packaging	Notes
E423982	1 l	Bottle	



## Silver nitrate solution 2.9075%

• Argento nitrato soluzione 2.9075% • Argent nitrate solution 2.90756% • Plata nitrato solución 2.90756% • Silbernitrat 2.90756%

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

H412  
P273-P501a

### Silver nitrate solution 2.9075% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E424001	1 l	Bottle	



## Silver nitrate 1 mol/l (1N)

• Argento nitrato 1 mol/l (1N) • Argent nitrate 1 mol/l (1N) • Plata nitrato 1 mol/l (1N) • Silbernitrat 1 mol/l (1N)

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314-H411  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Silver nitrate 1 mol/l (1N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Assay (potentiometry) ..... 0.999 - 1.001 N    NIST 399 ..... c

Code	Size	Packaging	Notes
424036000	500 ml	Glass bottle	Certified with NIST traceability
424035000	1 l	Glass bottle	Certified with NIST traceability

**169.87 g of AgNO<sub>3</sub>. Volumetric solution ready-to-use**



## Silver nitrate 0.5 mol/l (0.5N)

• Argento nitrato 0.5 mol/l (0.5N) • Argent nitrate 0.5 mol/l (0.5N) • Plata nitrato 0.5 mol/l (0.5N) • Silbernitrat 0.5 mol/l (0.5N)

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314-H411  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Silver nitrate 0.5 mol/l (0.5N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Assay (potentiometry) ..... 0.4995 - 0.5005 N    NIST 399 ..... c

Code	Size	Packaging	Notes
424051000	1 l	Glass bottle	Certified with NIST traceability

**Volumetric solution ready-to-use**

**Silver nitrate 0.1 mol/l (0.1N)**

- Argento nitrato 0.1 mol/l (0.1N) • Argent nitrate 0.1 mol/l (0.1N) • Plata nitrato 0.1 mol/l (0.1N)
- Silbernitrat 0.1 mol/l (0.1N)

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

**Warning**

H315-H319-H412  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

**Silver nitrate 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613005600	1 l	Glass bottle	Ref Ph.Eur 3005600

**Storage: protected from light****Silver nitrate 0.1 mol/l (0.1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 399..... c

Code	Size	Packaging	Notes
424067000	1 l	Plastic bottle	Certified with NIST traceability
424062000	5 l	Kubidos	Certified with NIST traceability
424063000	5 l	Plastic tank	Certified with NIST traceability
424061000	10 l	Kubidos	Certified with NIST traceability

**16.987 g of AgNO<sub>3</sub>. Volumetric solution ready-to-use****Silver nitrate 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
424081		Glass ampoule	Volume: 60 ml

**16.987 g of AgNO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N****Silver nitrate 0.1 mol/l (0.1N) in 2-propanol**

- Argento nitrato 0.1 mol/l (0.1N) in isopropanolo • Argent nitrate 0.1 mol/l (0.1N) dans le propanol-2 • Plata nitrato 0.1 mol/l (0.1N) en propanol-2
- Silbernitrat 0.1 mol/l (0.1N) in 2-Propanol

**Classification transport**

ONU: 1219  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H315-H319-H336-H412  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233

**Silver nitrate 0.1 mol/l (0.1N) in 2-propanol > RS - For analysis****RS**

Assay (potentiometry) ..... 0.0998 - 0.1002 N

Code	Size	Packaging	Notes
PS0250/16	1 l	Glass bottle	

**Silver nitrate 0.05 mol/l (0.05N)**

- Argento nitrato 0.05 mol/l (0.05N) • Argent nitrate 0.05 mol/l (0.05N) • Plata nitrato 0.05 mol/l (0.05N)
- Silbernitrat 0.05 mol/l (0.05N)

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

H412  
P273-P501a

**Silver nitrate 0.05 mol/l (0.05N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.04995 - 0.05005 N NIST 399..... c

Code	Size	Packaging	Notes
424101000	1 l	Plastic bottle	Certified with NIST traceability

**Volumetric solution ready-to-use**





## Silver nitrate 0.01 mol/l (0.01N)

• Argento nitrato 0.01 mol/l (0.01N) • Argent nitrate 0.01 mol/l (0.01N) • Plata nitrato 0.01 mol/l (0.01N)  
• Silbernitrat 0.01 mol/l (0.01N)

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

H412  
P273-P501a

### Silver nitrate 0.01 mol/l (0.01N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0030/15	1 l	Plastic bottle	

### Silver nitrate 0.01 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
424161		Glass ampoule	Volume: 60 ml

**1,6987 g of AgNO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**



## Silver nitrate 0.01 mol/l (0.01N) in propanol-2

• Argento nitrato 0.01 mol/l (0.01N) in isopropanolo • Argent nitrate 0.01 mol/l (0.01N) dans le propanol-2 • Plata nitrato 0.01 mol/l (0.01N) en propanol-2  
• Silbernitrat 0.01 mol/l (N/10) in Propanol-2

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

**Classification transport**  
ONU: 1219  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233

### Silver nitrate 0.01 mol/l (0.01N) in propanol-2 > RS - For analysis

RS

Assay (potentiometry) ..... 0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0252/16	1 l	Glass bottle	



## Silver nitrate solution

• Argento nitrato soluzione • Argent nitrate solution • Plata nitrato solución • Silbernitratlösung

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8



**Danger**  
H315-H318-H411  
P264-P280a-P305+P351+P338-P310a-P362+P364-  
P332+P313

### Silver nitrate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611078307	100 ml	Glass bottle	Silver nitrate R1 Ref Ph.Eur 1078301
611078306	100 ml	Glass bottle	Silver nitrate R2 Ref Ph.Eur 1078302
611078301	1 l	Glass bottle	Silver nitrate R1 Ref Ph.Eur 1078301
611078302	1 l	Glass bottle	Silver nitrate R2 Ref Ph.Eur 1078302

**Storage: protected from light**

### Silver nitrate solution > RS - For analysis according to JP

RS

Code	Size	Packaging	Notes
616001001	1 l	Plastic bottle	Silver nitrate TS

**Storage: protected from light**

**Silver nitrate solution > RS - For analysis according to USP**

RS

Code	Size	Packaging	Notes
617000201	1 l	Glass bottle	Silver nitrate TS

**Silver oxide**

• Argento ossido • Argent oxyde • Plata óxido • Silberoxid

Synonym:  
*Silver(I) oxide*

Ag <sub>2</sub> O Molecular Weight: 231,74 CAS: 20667-12-3 EEC-N: 243-957-1	<b>Classification transport</b> ONU: 1479 Transport Hazard class: 5.1 Packing group II	  	<b>Danger</b> H271-H318-H410 P210-P280-P283-P305+P351+P338-P310a- P306+P360
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**Silver oxide > RPE - For analysis**

RPE

Description ..... Grey powder	Ca ..... ≤ 50 ppm	Fe ..... ≤ 150 ppm	Pb ..... ≤ 50 ppm
Identification ..... Positive	Cd ..... ≤ 50 ppm	Mg ..... ≤ 50 ppm	Zn ..... ≤ 50 ppm
Loss on drying ..... ≤ 0.5 %	Cu ..... ≤ 0.08 %	Ni ..... ≤ 50 ppm	Assay (argentimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
424181	25 g	Glass bottle	
424182	250 g	Plastic bottle	

**Silver sulfate**

• Argento solfato • Argent sulfate • Plata sulfato • Silbersulfat

Synonym:  
*Sulfuric acid disilver(I) salt*

Ag <sub>2</sub> SO <sub>4</sub> Molecular Weight: 311,79 CAS: 10294-26-5 EEC-N: 233-653-7	 	<b>Danger</b> H318-H410 P273-P280i-P305+P351+P338-P310a-P391-P501a
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**Silver sulfate > RPE - For analysis**

RPE

Description ..... Whitish powder	Umidità (H2O) ..... ≤ 0.5 %	Fe ..... ≤ 150 ppm
Identification ..... Positive	Cu ..... ≤ 500 ppm	Assay (argentimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
424201	25 g	Glass bottle	
424203	100 g	Glass bottle	

**Silver sulfate solution 0.7% in sulfuric acid**• Argento solfato soluzione 0.7% in acido solforico • Argent sulfate solution 0.7% dans l'acide sulfurique  
• Plata sulfato solución 0.7% en acido sulfúrico • Silbersulfat 0.7% in SchwefelsäureSynonym:  
*Sulfuric acid disilver(I) salt*

Ag <sub>2</sub> SO <sub>4</sub> Molecular Weight: 311,79 CAS: 10294-26-5	<b>Classification transport</b> ONU: 1830 Transport Hazard class: 8 Packing group II		<b>Danger</b> H290-H314-H412 P280-P301+P330+P331-P303+P361+P353- P304+P340-P310a-P305+P351+P338
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**Silver sulfate solution 0.7% in sulfuric acid > RS - For environmental analysis (COD determination)**

RS

Description ..... Clear colourless liquid	Identification ..... Positive	Assay ..... 0.685 ÷ 0.715 %
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Code	Size	Packaging	Notes
424191	1 l	Glass bottle	
424192	2.5 l	Glass bottle	

**Soap solution in ethanol**

• Sapone soluzione in alcol etilico • Savon en solution dans l'éthanol • Jabón solución en alcohol etílico • Seife in Ethanollösung

**Classification transport**ONU: 1170  
Transport Hazard class: 3  
Packing group II**Warning**H226-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313**Soap solution in ethanol > RS - For hydrotimetry according to Boutron-Boudet****RS**

Description ..... Yellowish clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
E477507	1 l	Glass bottle	

**Soda lime**

• Calce sodata • Chaux sodée • Cal sodada • Natronkalk

CAS: 8006-28-8

**Warning**H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313**Soda lime > RS - For anesthesia and basal metabolism test****RS**Description ..... White granules Water ..... 12.0 ÷ 19.0 % Activity ..... ≥ 19.0 % Umidità assorbita ..... ≤ 7.5 %  
Identification ..... Positive Alcalinity (NaOH) ..... ≤ 3.5 % Hardness ..... ≥ 75.0 % Diameter ..... 2.5 ÷ 5.0 mm

Code	Size	Packaging	Notes
432873	1 kg	Plastic bottle	
432874	4,5 kg	Plastic tank	

**With ethyl violet indicator****Soda lime > RS - For CO2 absorption****RS**Description ..... Granuli white Diameter: ..... Conform > 1.40 mm ..... Balance  
Identification ..... Positive > 2.80 mm ..... < 1.0 % > 0.60 mm ..... < 20.0 %  
CO2 Absorption ..... > 19 % > 2.00 mm ..... < 30.0 % < 0.60 mm ..... < 1.0 %

Code	Size	Packaging	Notes
432861	1 kg	Plastic bottle	
432862	5 kg	Plastic tank	

**With indicator manganese salt****Soda lime > RS - For microanalysis****RS**Description ..... White granules Water ..... 16 ÷ 19 % > 4.75 mm ..... ≤ 7.0 %  
Identification ..... Positive Hardness ..... ≥ 80 % < 0.6 mm ..... ≤ 1.0 %

Code	Size	Packaging	Notes
432851	500 g	Plastic bottle	

**With indicator ethyl violet****Soda lime > RPE - For analysis****RPE**Description ..... White granules Hardness ..... ≥ 75 % > 8.0 mm ..... Nil  
Identification ..... Positive Activity ..... ≥ 19.0 % > 4.75 mm ..... ≤ 7.0 %  
Water ..... 12 ÷ 19 % Alcalinity (NaOH) ..... ≤ 3.5 % < 0.425 mm ..... ≤ 2.0 %

Code	Size	Packaging	Notes
432801	1 kg	Plastic bottle	
432802	2.5 kg	Plastic bottle	
432803	25 kg	Plastic bucket	

**With ethyl purple indicator. Diameter 2,5 - 6 mm**

**Sodium standard solution**

• Sodio standard soluzione • Sodium solution standard • Sodio solución patrón • Natriumstandardlösung

**Danger**

H290-H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Sodium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615002701	100 ml	Plastic bottle	A 50 ppm solution: to dilute according to Ref Ph.Eur 5002701
615002709	100 ml	Plastic bottle	A 200 ppm solution: to dilute according to Ref Ph.Eur 5002700
615005700	1 l	Plastic bottle	A 1000 ppm solution Ref Ph.Eur 5005700

**Sodium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505732	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505735	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505733	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Sodium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503741	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503743	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503745	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503747	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Sodium standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507759	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503749	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497645	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497641	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Sodium standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
478101		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package****Sodium standard solution > RS - Standard solution for ion chromatography**

RS

Code	Size	Packaging	Notes
503301	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503303	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Sodium acetate anhydrous

• Sodio acetato anidro • Sodium acétate anhydre • Sodio acetato anhidro • Natriumacetat wasserfrei

Synonym:

Acetic acid sodium salt anhydrous

CH<sub>3</sub>COONa  
Molecular Weight: 82,035  
CAS: 127-09-3  
EEC-N: 204-823-8

### Sodium acetate anhydrous > RPE - For analysis

RPE

Description ..... White hygroscopic powder	Heavy metals (Pb).....≤10 ppm	Ca.....≤100 ppm	Ni.....≤2 ppm
Identification ..... Positive	Nitrate .....≤10 ppm	Cu.....≤2 ppm	Zn.....≤2 ppm
pH sol. 5% at 25° C ..... 7.5 ÷ 9.2	Subst. reducing KMnO <sub>4</sub> .....≤50 ppm (1h)	Fe.....≤3 ppm	Assay (non-aqueous medium) .99.0 ÷ 101.0 % (s.s.)
Loss on drying ..... ≤1.0 %	Sulphate .....≤100 ppm	K.....≤0.1 %	
Ca, Mg and ppt by NH <sub>4</sub> OH.....≤50 ppm	Al.....≤5 ppm	Mg.....≤5 ppm	
Chloride.....≤350 ppm	As.....≤1 ppm	Mn.....≤5 ppm	

Code	Size	Packaging	Notes
478165	100 g	Plastic bottle	
478166	500 g	Plastic bottle	
478167	1 kg	Plastic bottle	
478163	25 kg	Fibre drum	

### Sodium acetate anhydrous > ERBApharm - According to pharmacopoeia: USP

ERBApharm

Description ..... White crystalline powder	pH..... 7.5 ÷ 9.2 USP-NF	Heavy metals (Pb).....≤10 ppm	% s.s.
Identification ..... Positive	Loss on drying ..... ≤1.0 %	Sulphate .....≤50 ppm	Origin (BSE/TSE)..... Synthesis
Calcium + Magnesium .... Conform USP-NF	Water not sol. matter .....≤500 ppm	Al.....≤0.2 ppm	
K..... Conform USP-NF	Chloride.....≤350 ppm	Assay (non-aqueous medium) .99.0 ÷ 101.0	

Code	Size	Packaging	Notes
366377	1 kg	Plastic bottle	
366372	5 kg	Plastic tank	
366371	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sodium acetate trihydrate

• Sodio acetato triidrato • Sodium acétate trihydraté • Sodio acetato trihidrato • Natriumacetat-trihydrat

Synonym:

Acetic acid sodium salt trihydrate

CH<sub>3</sub>COONa.3H<sub>2</sub>O  
Molecular Weight: 136,08  
CAS: 6131-90-4  
EEC-N: 612-115-9

### Sodium acetate trihydrate > RPE - For analysis - ISO - ACS - Reag.USP

RPE

Description ..... White crystals	Chloride.....≤10 ppm	Sulphate .....≤20 ppm	%
Identification ..... Positive	Phosphate .....≤5 ppm	Fe.....≤5 ppm	Ca.....≤50 ppm
pH sol. 5% at 25° C ..... 7.5 ÷ 9.2	Water-insoluble matter .....≤50 ppm	K.....≤50 ppm	Mg.....≤20 ppm
Subst. reducing KMnO <sub>4</sub> ..... Conform	Heavy metals (Pb).....≤5 ppm	Assay (non-aqueous medium) .99.0 ÷ 101.0	

Code	Size	Packaging	Notes
478135	100 g	Plastic bottle	
478136	500 g	Plastic bottle	
478137	1 kg	Plastic bottle	
478139	5 kg	Plastic tank	
478132	25 kg	Plastic bucket	

**Sodium acetate trihydrate** > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-BP

ERBApharm

Description .....	White or almost white,cryst. powder or colourless cryst.	K.....	Conform USP-NF	Heavy metals (Pb).....	≤10 ppm	Calcium + Magnesium .....	≤50 ppm
Identification .....	Positive	pH sol. 5% at 25° C .....	7.5 ÷ 9.0	Sulphate .....	≤50 ppm	Fe .....	≤10 ppm
Appearance of solution .....	Conform Ph.Eur.	Loss on drying 130° C.....	39.0 ÷ 40.5 %	Not soluble matter.....	≤500 ppm	Al .....	≤0.2 ppm
Reducing substances .....	Conform Ph.Eur.	Chloride.....	≤200 ppm	As .....	≤2 ppm	Assay (non-aqueous medium) .....	99.0 ÷ 101.0 % (s.s.)

Code	Size	Packaging	Notes
366207	1 kg	Plastic bottle	
366209	5 kg	Plastic tank	
366205	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Sodium alginate**

• Sodio alginato • Sodium alginate • Sodio alginato • Natriumalginat

Synonym:

- Algin
- Alginic acid

(C<sub>6</sub>H<sub>7</sub>O<sub>6</sub>Na)<sub>n</sub>  
Molecular Weight: >200000  
CAS: 9005-38-3

**Sodium alginate** > ERBApharm - According to pharmacopoeia: FU-Ph.Eur.

ERBApharm

Description .....	Beige powder	Sulphated ash.....	30.0 ÷ 36.0 %	Microbial tests	Salmonella.....	Absent
Identification .....	Positive	Chloride.....	≤1.0 %	TAMC .....	≤1000 CFU/g	
Appearance of solution .....	Conform Ph.Eur.	Heavy metals (Pb).....	≤20 ppm	TYMC .....	≤100 CFU/g	
Loss on drying .....	≤15.0 %	Ca.....	≤1.50 %	Escherichia coli .....	Absent	

Code	Size	Packaging	Notes
366551	100 g	Plastic bottle	
366552	1 kg	Plastic bottle	
366553	5 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Sodium aluminate**

• Sodio alluminato • Sodium aluminat • Sodio aluminato • Natriumaluminat

NaAlO<sub>2</sub>  
Molecular Weight: 81,97  
CAS: 11138-49-1  
EEC-N: 234-391-6

**Classification transport**

ONU: 2812  
Transport Hazard class: 8  
Packing group III

**Danger**

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Sodium aluminate** > RE - Pure

RE

Description .....	White-grey powder	Iron (as Fe2O3) .....	≤ 0.05 %	Sodium (as Na2O) .....	37 - 45 %
Identification .....	Positive	Aluminium (as Al2O3) .....	50 - 60 %		

Code	Size	Packaging	Notes
478237	1 kg	Plastic bottle	
478232	25 kg	Plastic bucket	





## Sodium ammonium hydrogen phosphate

- Sodio ammonio idrogeno fosfato • Sodium ammonium hydrogenophosphate
- Sodio y amonio hidrógeno fosfato • Natriumammoniumhydrogenphosphat

Synonym:

- Ammonium sodium phosphate dibasic tetrahydrate
- Ammonium sodium hydrogen phosphate

NaNH<sub>4</sub>HPO<sub>4</sub>·4H<sub>2</sub>O  
Molecular Weight: 209,07  
CAS: 13011-54-6  
EEC-N: 235-860-8

### Sodium ammonium hydrogen phosphate > RPE - For analysis

RPE

Description .....	White crystalline powder	Fluoride .....	≤10 ppm	As .....	≤0.5 ppm	Mg .....	≤20 ppm
Identification .....	Positive	Water-insoluble matter .....	≤50 ppm	Ca .....	≤50 ppm	Ni .....	≤25 ppm
pH sol. 5% at 25° C .....	7.5 ÷ 8.5	Heavy metals (Pb) .....	≤5 ppm	Cu .....	≤25 ppm	Zn .....	≤25 ppm
Carbonate .....	≤10 ppm	Nitrate .....	≤10 ppm	Fe .....	≤5 ppm	Assay (acidimetric) .....	≥99.5 %
Chloride .....	≤10 ppm	Sulphate .....	≤50 ppm	K .....	≤300 ppm		

Code	Size	Packaging	Notes
478357	1 kg	Plastic bottle	



## Sodium L-ascorbate

- Sodio L-ascorbato • Sodium L-ascorbate • Sodio L-ascorbato • Natrium L-ascorbat

Synonym:

- L(+)-Ascorbic acid sodium salt
- Vitamin C sodium salt

C<sub>6</sub>H<sub>7</sub>O<sub>6</sub>Na  
Molecular Weight: 198,11  
CAS: 134-03-2  
EEC-N: 205-126-1

### Sodium L-ascorbate > RE - Pure

RE

Description .....	white to yellow crystalline powder	Identification .....	Positive	Assay (HClO <sub>4</sub> ) .....	≥ 98.5 %
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Code	Size	Packaging	Notes
366681	100 g	Plastic bottle	
366684	1 kg	Plastic bottle	



## Sodium arsenite 0.1 mol/l (0.2N)

- Sodio arsenito 0.1 mol/l (0.2N) • Sodium arsenite 0.1 mol/l (0.2N) • Sodio arsenito 0.1 mol/l (0.2N)
- Natriumarsenit 0.1 mol/l (0.2N)

Synonym:

- Sodium (meta)arsenite
- Sodium dioxoarsenate

AsNaO<sub>2</sub>  
Molecular Weight: 129,91  
CAS: 7784-46-5

### Classification transport

ONU: 1686  
Transport Hazard class: 6.1  
Packing group III



### Danger

H302-H350-H411-HA26  
P264-P280-P301+P312a-P330-P308+P313-P501a

### Sodium arsenite 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613005800	1 l	Plastic bottle	Ref Ph.Eur 3005800



## Sodium arsenite 0.05 mol/l (0.1N)

- Sodio arsenito 0.05 mol/l (0.1N) • Sodium arsenite 0.05 mol/l (0.1N) • Sodio arsenito 0.05 mol/l (0.1N)
- Natriumarsenit 0.05 mol/l (0.1N)

Synonym:

- Sodium (meta)arsenite
- Sodium dioxoarsenate

AsNaO<sub>2</sub>  
Molecular Weight: 129,91  
CAS: 7784-46-5

### Classification transport

ONU: 1686  
Transport Hazard class: 6.1  
Packing group II



### Danger

H302-H319-H350-H411-HA26  
P264-P280-P301+P312a-P305+P351+P338-P308+P313-P337+P313

### Sodium arsenite 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description .....	Clear colourless liquid	Identification .....	Positive	Titration factor .....	0.995 ÷ 1.005
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Code	Size	Packaging	Notes
402381		Glass ampoule	Volume: 60 ml

**6,494 g NaAsO<sub>2</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**

**Sodium azide**

• Sodio azide • Sodium azide • Sodio azida • Natriumazid

NaN<sub>3</sub>

Molecular Weight: 65,01

CAS: 26628-22-8

EEC-N: 247-852-1

**Classification transport**

ONU: 1687

Transport Hazard class: 6.1

Packing group II

**Danger**

H300-H310-H373-H410-HEU032

P260-P264-P280h-P301+P310a-P330-P361+P364

**Sodium azide > RE - Pure****RE**

Description ..... White crystalline powder      Loss on drying ..... ≤ 0.5 %      pH solution 5% ..... ≥ 9      Sodium carbonate ..... ≤ 0.15 %  
 Identification ..... Positive      Water-insoluble matter ..... ≤ 500 ppm      Heavy metals (Pb) ..... ≤ 20 ppm      Assay (oxidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
478484	25 g	Glass bottle	
478482	250 g	Glass bottle	
478481	2.5 kg	Plastic bottle	

**Sodium benzoate**

• Sodio benzoato • Sodium benzoate • Sodio benzoato • Natriumbenzoat

Synonym:

*Benzoic acid sodium salt*C<sub>6</sub>H<sub>5</sub>COONa

Molecular Weight: 144,11

CAS: 532-32-1

EEC-N: 208-534-8

**Warning**

H319

P264-P280i-P305+P351+P338-P337+P313

**Sodium benzoate > ERBApharm - According to pharmacopoeia: BP-FU-NF-Ph.Eur.****ERBApharm**

Description ..... White crystalline powder      Acidity or alkalinity ..... Conform Ph.Eur.      Halog. comp. ionized Cl ..... ≤ 200 ppm      Assay (non-aqueous medium) .99.0 ÷ 100.5 % s.s.  
 Identification ..... Positive      Water (K.F) ..... ≤ 1.5 %      Halog. comp. total Cl ..... ≤ 300 ppm  
 Appearance of solution ..... Conform Ph.Eur.      Loss on drying ..... ≤ 2.0 %      Heavy metals (Pb) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
366757	1 kg	Plastic bottle	
366759	5 kg	Plastic bucket	
366754	25 kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Sodium bicarbonate**

• Sodio bicarbonato • Sodium bicarbonate • Sodio bicarbonato • Natriumbicarbonat

Synonym:

*Sodium hydrogen carbonate*NaHCO<sub>3</sub>

Molecular Weight: 84,01

CAS: 144-55-8

EEC-N: 205-633-8

**Sodium bicarbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... White crystalline powder      Phosphate ..... ≤ 10 ppm      Assay (alkalimetric) ..... 99.7 ÷ 100.3 % s.s.      Carbonate ..... Conform  
 Identification ..... Positive      Total sulphur ..... ≤ 30 ppm      Ca ..... ≤ 100 ppm      Loss on drying ..... ≤ 0.25 %  
 Water-insoluble matter ..... ≤ 150 ppm      Heavy metals (Pb) ..... ≤ 5 ppm      Mg ..... ≤ 50 ppm      Sulphate ..... ≤ 150 ppm  
 Ammonium ..... ≤ 5 ppm      Fe ..... ≤ 10 ppm      As ..... ≤ 2 ppm  
 Chloride ..... ≤ 30 ppm      K ..... ≤ 50 ppm      Appearance of solution ..... Conform

Code	Size	Packaging	Notes
478535	100 g	Plastic bottle	
478536	500 g	Plastic bottle	
478537	1 kg	Plastic bottle	
478531	5 kg	Plastic jar	
478532	25 kg	Plastic bucket	

## Sodium bicarbonate > ERBapharm - According to pharmacopoeia: Ph.Eur.-USP-FU-BP-DAB

**ERBapharm**

Description .....	White crystalline powder	Not soluble matter .....	Conform USP-NF	Heavy metals (Pb).....	≤5 ppm	Ca.....	≤100 ppm
Identification .....	Positive	Loss (silica gel) .....	≤0.25 %	Sulphate .....	≤150 ppm	Fe.....	≤20 ppm
Appearance of solution .....	Conform Ph.Eur.	Ammonium .....	≤20 ppm	Sulfur compounds .....	≤150 ppm	Assay (alkalimetric).....	99.0 ÷ 100.5 % s.s.
Carbonate.....	Conform Ph.Eur.	Chloride.....	≤150 ppm	As .....	≤2 ppm	Normal carbonate.....	Conform

Code	Size	Packaging	Notes
366908	1 kg	Plastic bottle	
366909	5 kg	Plastic tank	
366902	25 kg	Plastic bucket	
366904	50 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sodium bisulfate monohydrate

- Sodio bisolfato monoidrato • Sodium bisulfate monohydraté • Sodio bisulfato monohidrat
- Natriumbisulfat-Monohydrat

Synonym:  
Sodium hydrogen sulfate monohydrate

NaHSO<sub>4</sub>·H<sub>2</sub>O  
Molecular Weight: 138,07  
CAS: 10034-88-5  
EEC-N: 231-665-7

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group III



**Danger**  
H318  
P280i-P305+P351+P338-P310a

## Sodium bisulfate monohydrate > RPE - For analysis

**RPE**

Description .....	White crystals	Chloride.....	≤ 20 ppm	Fe .....	≤ 50 ppm
Identification .....	Positive	Heavy metals (Pb).....	≤ 50 ppm	Assay .....	≥ 96.0 %

Code	Size	Packaging	Notes
478675	100 g	Plastic bottle	
478676	500 g	Plastic bottle	
478677	1 kg	Plastic bottle	
478673	25 kg	Drum	



## Sodium borohydride

- Sodio boroidruro • Sodium borohydride • Sodio boro hidruro • Natriumtetrahydroborat

Synonym:  
Sodium tetrahydroborate

NaBH<sub>4</sub>  
Molecular Weight: 37,83  
CAS: 16940-66-2  
EEC-N: 241-004-4

**Classification transport**  
ONU: 1426  
Transport Hazard class: 4.3  
Packing group I



**Danger**  
H260-H301-H314-H360FD-HEU014-HA26  
P223-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

## Sodium borohydride > RE - Pure - Powder

**RE**

Description .....	White powder	Identification .....	Positive	Assay (oxidimetric) .....	≥ 95 %
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Code	Size	Packaging	Notes
478953	50 g	Metallic can	
478955	250 g	Metallic can	
478957	1 kg	Metallic can	

## Sodium borohydride > RE - Pure - Pearls

**RE**

Description .....	White pearls	Identification .....	Positive	Assay .....	≥ 97.5 %
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Code	Size	Packaging	Notes
478964	100 g	Metallic can	

**Sodium bromide**

• Sodio bromuro • Sodium bromure • Sodio bromuro • Bromnatium

NaBr  
Molecular Weight: 102,9  
CAS: 7647-15-6  
EEC-N: 231-599-9

**Warning**

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Sodium bromide > RPE - For analysis - ACS****RPE**

Description ..... White crystalline powder  
Identification ..... Positive  
pH sol. 5% at 25° C ..... 5.0 ÷ 8.8  
Bromate ..... ≤ 10 ppm  
Chloride ..... ≤ 0.2 %  
Water-insoluble matter ..... ≤ 50 ppm  
Heavy metals (Pb) ..... ≤ 5 ppm  
Sulphate ..... ≤ 20 ppm  
Ba ..... ≤ 20 ppm  
Ca ..... ≤ 20 ppm  
Fe ..... ≤ 5 ppm  
K ..... ≤ 0.1 %  
Mg ..... ≤ 10 ppm  
Assay (argentimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
479055	250 g	Plastic bottle	
479057	1 kg	Plastic bottle	

**Sodium bromide > ERBApharm - According to pharmacopoeia: Ph.Eur.-Ph.Franc.****ERBApharm**

Description ..... White crystalline powder  
Identification ..... Positive  
Appearance of solution ..... Conform Ph.Eur.  
Acidity or alkalinity ..... Conform Ph.Eur.  
Bromate ..... Conform Ph.Eur.  
Iodide ..... Conform Ph.Eur.  
Loss on drying ..... ≤ 3.0 %  
Chloride ..... ≤ 0.6 %  
Mg,alkal.earth met.(Ca) ..... ≤ 200 ppm  
Heavy metals (Pb) ..... ≤ 10 ppm  
Sulphate ..... ≤ 100 ppm  
Fe ..... ≤ 20 ppm  
Assay (argentimetric) ..... 98.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
367357	1 kg	Plastic bottle	
367359	5 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Sodium 1-butanesulfonate ▶ 1-Butanesulfonic acid sodium salt****Sodium carbonate anhydrous**

• Sodio carbonato anidro • Sodium carbonate anhydrous • Sodio carbonato anhidro • Natriumcarbonat wasserfrei

Synonym:

- Calcined soda
- Carbonic acid disodium salt

Na<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 105,99  
CAS: 497-19-8  
EEC-N: 207-838-8

**Warning**

H319  
P264-P280i-P305+P351+P338-P337+P313

**Sodium carbonate anhydrous > RS - Standard for volumetry****RS**

Description ..... White crystals  
Identification ..... Positive  
Assay ..... ≥ 99.7 %

Code	Size	Packaging	Notes
479331	50 g	Glass bottle	

**Sodium carbonate anhydrous > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP****RPE**

Description ..... White crystalline powder  
Identification ..... Positive  
Loss on drying (285°C) ..... ≤ 1.0 %  
Chloride ..... ≤ 10 ppm  
Phosphate ..... ≤ 10 ppm  
Water-insoluble matter ..... ≤ 100 ppm  
Heavy metals (Pb) ..... ≤ 5 ppm  
Silicate ..... ≤ 50 ppm  
Total sulphur ..... ≤ 30 ppm  
Fe ..... ≤ 5 ppm  
K ..... ≤ 50 ppm  
Assay (alkalimetric) ..... ≥ 99.5 % s.s.  
Ca ..... ≤ 300 ppm  
Mg ..... ≤ 50 ppm

Code	Size	Packaging	Notes
479305	100 g	Plastic bottle	
479306	500 g	Plastic bottle	
479307	1 kg	Plastic bottle	
479301	5 kg	Plastic tank	
479302	25 kg	Drum	

## Sodium carbonate anhydrous > ERBApharm - According to pharmacopoeia: Ph.Eur.-NF

**ERBApharm**

Description .....	White crystalline powder	Alkali hydroxides and bicarbonates Conform Ph.Eur.	As .....	≤ 5 ppm	Assay (acidimetric) .....	99.5 ÷ 100.5 %s.s.
Identification .....	Positive	Chloride .....	Fe .....	≤ 50 ppm		
Loss on drying .....	≤0.5 %	Heavy metals (Pb) .....		≤ 10 ppm		
Appearance of solution .....	Conform Ph.Eur.	Sulphate .....	Residue solvents .....	Conform USP-NF		

Code	Size	Packaging	Notes
367707	1 kg	Plastic bottle	
367703	5 kg	Plastic tank	
367705	25 kg	Plastic bucket	
367704	50 kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sodium carbonate decahydrate

• Sodio carbonato decaidrato • Sodium carbonate décahydraté • Sodio carbonato decahidrato • Sodium carbonate decahydrate

Na<sub>2</sub>CO<sub>3</sub>·10H<sub>2</sub>O  
Molecular Weight: 286,14  
CAS: 6132-02-1  
EEC-N: 207-838-8



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

## Sodium carbonate decahydrate > RPE - For analysis - ISO

**RPE**

Description .....	White crystals	Phosphate .....	≤5 ppm	Total sulphur .....	≤10 ppm	K .....	≤50 ppm
Identification .....	Positive	Water-insoluble matter .....	≤25 ppm	Al .....	≤5 ppm	Mg .....	≤2 ppm
Free alkalis (NaOH) .....	≤400 ppm	Heavy metals (Pb) .....	≤3 ppm	As .....	≤0.1 ppm	Ni .....	≤2 ppm
Total nitrogen .....	≤5 ppm	Subst. ppt by NH <sub>4</sub> OH .....	≤100 ppm	Ca .....	≤20 ppm	Pb .....	≤2 ppm
Bicarbonate .....	≤0.2 %	Reducing iodine .....	≤50 ppm	Cu .....	≤2 ppm	Zn .....	≤2 ppm
Chloride .....	≤5 ppm	Silicate .....	≤20 ppm	Fe .....	≤2 ppm	Assay (alkalimetric) .....	≥99.5 %

Code	Size	Packaging	Notes
479125	100 g	Plastic bottle	
479126	500 g	Plastic bottle	
479127	1 kg	Plastic bottle	
479121	5 kg	Plastic tank	
479122	25 kg	Plastic bucket	

## Sodium carbonate decahydrate > ERBApharm - According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.

**ERBApharm**

Description .....	White crystalline powder	Alc. hydroxides + bicar. ....	Conform Ph.Eur.	Sulphate .....	≤100 ppm	Assay (alkalimetric) 36.7 ÷ 40.0 % Na <sub>2</sub> CO <sub>3</sub>
Identification .....	Positive	Chloride .....	≤50 ppm	As .....	≤2 ppm	
Appearance of solution .....	Conform Ph.Eur.	Heavy metals (Pb) .....	≤20 ppm	Fe .....	≤20 ppm	

Code	Size	Packaging	Notes
367608	1 kg	Plastic bottle	
367609	5 kg	Plastic tank	
367601	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sodium carbonate monohydrate

• Sodio carbonato monoidrato • Sodium carbonate monohydraté • Sodio carbonato monohidrato  
• Natriumcarbonat-Monohydrat

Synonym:  
*Carbonic acid disodium salt*

Na<sub>2</sub>CO<sub>3</sub>·H<sub>2</sub>O  
Molecular Weight: 105,99  
CAS: 5968-11-6  
EEC-N: 207-838-8



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

## Sodium carbonate monohydrate > RS - For analysis according to Ph. Eur. Chap. 4.2.1

**RS**

Code	Size	Packaging	Notes
612000500	50 g	Plastic bottle	Ref Ph.Eur 2000500

**Sodium carbonate monohydrate > RPE - For analysis - ACS****RPE**

Description .....	White, granular crystals	Chloride .....	≤ 10 ppm	Mg .....	≤ 50 ppm	K .....	≤ 50 ppm
Identification .....	Positive	Phosphate .....	≤ 5 ppm	Silicate .....	≤ 50 ppm	Assay (alkalimetric) .....	≥ 99.5 %
Loss on drying .....	13.0 ÷ 15.0 %	Water-insoluble matter .....	≤ 100 ppm	Total sulphur .....	≤ 40 ppm		
Ca .....	≤ 0.03 %	Heavy metals (Pb) .....	≤ 5 ppm	Fe .....	≤ 5 ppm		

Code	Size	Packaging	Notes
479255	100 g	Plastic bottle	
479256	500 g	Plastic bottle	
479257	1 kg	Plastic bottle	

**Sodium carbonate monohydrate > ERBApharm - According to pharmacopoeia: FU-Ph.Eur.-Ph.Franc.****ERBApharm**

Description .....	White crystalline powder	Alkali hydroxides and bicarbonates Conform Ph.Eur.	Sulphate .....	≤ 250 ppm	Fe .....	≤ 50 ppm	
Identification .....	Positive	Chloride .....	≤ 125 ppm	Heavy metals (Pb) .....	≤ 50 ppm	Assay (alkalimetric) .....	83.0 ÷ 87.5 %
Appearance of solution .....	Conform Ph.Eur.			As .....	≤ 5 ppm		

Code	Size	Packaging	Notes
367691	1 kg	Plastic bottle	
367692	5 kg	Plastic tank	
367693	25 kg	Plastic bucket	
367694	50 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Sodium carbonate 0.5 mol/l (1N)**

- Sodio carbonato 0.5 mol/l (1N) • Sodium carbonate 0.5 mol/l (1N) • Sodio carbonato 0.5 mol/l (1N)
- Natriumcarbonat 0.5 mol/l (1N)

Synonym:

- Calcined soda
- Carbonic acid disodium salt

Molecular Weight: 105,99

HEU210

**Sodium carbonate 0.5 mol/l (1N) > RPE - For analysis****RPE**

Description .....	Clear colourless liquid	Assay (potentiometry) .....	0.998 - 1.002 N
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Code	Size	Packaging	Notes
479186	500 ml	Plastic bottle	

**52,995 g of Na<sub>2</sub>CO<sub>3</sub>. Volumetric solution ready-to-use**

**Sodium carbonate 0.05 mol/l (0.1N)**

- Sodio carbonato 0.05 mol/l (0.1N) • Sodium carbonate 0.05 mol/l (0.1N) • Sodio carbonato 0.05 mol/l (0.1N)
- Natriumcarbonat 0.05 mol/l (0.1N)

Synonym:

- Calcined soda
- Carbonic acid disodium salt

HEU210

**Sodium carbonate 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis****RPE**

Description .....	Clear colourless liquid	Identification .....	Positive	Titration factor .....	0.995 ÷ 1.005
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Code	Size	Packaging	Notes
479211		Plastic ampoule	Volume: 55 ml

**5,299 g of Na<sub>2</sub>CO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**





## Sodium carbonate solution 20%

- Sodio carbonato soluzione 20% • Sodium carbonate solution 20% • Sodio carbonato solución 20%
- Natriumcarbonat 20%

- Synonym:
- Calcined soda
  - Carbonic acid disodium salt

HEU210

### Sodium carbonate solution 20% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.072 ÷ 1.078

Code	Size	Packaging	Notes
479151	1 l	Plastic bottle	

**Mass percentage based on Na<sub>2</sub>CO<sub>3</sub>·10H<sub>2</sub>O content**



## Sodium carbonate solution

- Sodio carbonato soluzione • Sodium carbonate anhydrous solution • Sodio carbonato solución
- Natriumcarbonat wasserfreie Lösung

- Synonym:
- Calcined soda
  - Carbonic acid disodium salt



Warning

H319

P264-P280i-P305+P351+P338-P337+P313

### Sodium carbonate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611079301	1 l	Plastic bottle	A 106 g/l solution ref Ph.Eur 1079301



## Sodium chloride

- Sodio cloruro • Sodium chlorure • Sodio cloruro • Natriumchlorid

- Synonym:
- Halite

NaCl  
Molecular Weight: 58,44  
CAS: 7647-14-5  
EEC-N: 231-598-3

### Sodium chloride > RS - For environmental analysis

RS

Description ..... White crystals Identification ..... Positive Hg ..... ≤0.005 ppm Assay (argentimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
479671	100 g	Glass bottle	

**Low content in Hg**

### Sodium chloride > RS - For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000600	250 g	Plastic bottle	Ref Ph.Eur 2000600

### Sodium chloride > RS - Standard for volumetry

RS

Description ..... White crystals Identification ..... Positive Assay ..... ≥99.5 %

Code	Size	Packaging	Notes
479652	50 g	Glass bottle	

**Sodium chloride > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	White crystals	Nitrate, Chlorate (NO <sub>3</sub> ) .....	≤ 30 ppm	Al .....	≤ 0.2 ppm	Mg .....	≤ 10 ppm
Identification .....	Positive	Phosphate .....	≤ 5 ppm	As .....	≤ 1 ppm	Assay (argentimetric) .....	99.0 ÷ 100.5 % s.s.
pH sol. 5% at 25° C .....	5.0 ÷ 9.0	Water-insoluble matter .....	≤ 50 ppm	Ca .....	≤ 20 ppm	Acidity or alkalinity .....	Conform
Loss on drying .....	≤ 0.5 %	Iodide .....	≤ 20 ppm	Ba .....	Conform	Nitrite .....	Conform
Appearance of solution .....	Conform	Heavy metals (Pb) .....	≤ 5 ppm	Fe .....	≤ 2 ppm	Ferrocyanide .....	≤ 1 ppm
Bromide .....	≤ 100 ppm	Sulphate .....	≤ 40 ppm	K .....	≤ 50 ppm	Magnesium and alkali metals .....	≤ 100 ppm

Code	Size	Packaging	Notes
479685	100 g	Plastic bottle	
479686	500 g	Plastic bottle	
479687	1 kg	Plastic bottle	
479689	5 kg	Plastic jar	
479681	25 kg	Plastic bucket	

**Sodium chloride > RPE - For analysis - According to ASTM B117 ISO 9227/2006****RPE**

Description .....	White crystalline powder	Loss on drying .....	≤ 0.5 %	Halogen (Iodide+Bromide+fluoride) .....	≤ 0.1 %	Nal .....	≤ 0.1 %
Identification .....	Positive	Cu .....	≤ 0.3 ppm	Impurezze totali .....	≤ 0.3 % s.s.		
Heavy metals (Pb) .....	≤ 5 ppm	Ni .....	≤ 10 ppm	Assay (argentimetric) .....	≥ 99.8 % s.s.		

Code	Size	Packaging	Notes
479663	1 kg	Plastic bottle	
479662	5 kg	Plastic bucket	
479661	25 kg	Plastic bucket	

**For salt spray tests****Sodium chloride > ERBApharm - According to pharmacopoeia: Ph.Eur.- Microbiological tested****ERBApharm**

Description .....	White crystalline powder	Ferrocyanide .....	Pass test	Heavy metals (Pb) .....	≤ 5 ppm	Assay (argentimetric) .....	99.0 ÷ 100.5 % s.s.
Identification (I.R.) .....	Positive	Nitrite .....	Pass test	Sulphate .....	≤ 200 ppm	Total aerobic microbial count (TAMC) .....	≤ 100 CFU/g
Appearance of solution .....	Pass test	Loss on drying .....	≤ 0.5 %	Al .....	≤ 0.2 ppm	Total yeasts/mould count (TYMC) .....	≤ 10 CFU/g
Acidity or alkalinity .....	Pass test	Mg, alkal. earth met. (Ca) .....	≤ 100 ppm	As .....	≤ 1 ppm		
Barium .....	Pass test	Bromide .....	≤ 100 ppm	Fe .....	≤ 2 ppm		
Iodide .....	Pass test	Phosphate .....	≤ 25 ppm	K .....	≤ 500 ppm		

Code	Size	Packaging	Notes
368281	10 kg	Drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Sodium chloride > ERBApharm-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB****ERBApharm**

Description .....	White crystalline powder	Iodide .....	Conform Ph.Eur.	Bromide .....	≤ 100 ppm	As .....	≤ 1 ppm
Identification .....	Positive	Ferrocyanide .....	Conform Ph.Eur.	Phosphate .....	≤ 25 ppm	Fe .....	≤ 2 ppm
Appearance of solution .....	Conform Ph.Eur.	Nitrite .....	Conform Ph.Eur.	Heavy metals (Pb) .....	≤ 5 ppm	Assay (argentimetric) .....	99.0 ÷ 100.5 % s.s.
Acidity or alkalinity .....	Conform Ph.Eur.	Loss on drying .....	≤ 0.5 %	Sulphate .....	≤ 200 ppm		
Barium .....	Conform Ph.Eur.	Mg, alkal. earth met. (Ca) .....	≤ 100 ppm	Al .....	≤ 0.2 ppm		

Code	Size	Packaging	Notes
368257000	1 kg	Plastic bottle	
368253000	25 kg	Sack	
368256000	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Sodium chloride > ERBApharm - According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB-USP-JP****ERBApharm**

Description .....	White crystalline powder	Barium .....	Conform Ph.Eur.	Mg, alkal. earth met. (Ca) .....	≤ 100 ppm	Al .....	≤ 0.2 ppm
Identification .....	Positive	Iodide .....	Conform Ph.Eur.	Bromide .....	≤ 100 ppm	As .....	≤ 1 ppm
Appearance of solution .....	Conform Ph.Eur.	Ferrocyanide .....	Conform Ph.Eur.	Phosphate .....	≤ 25 ppm	Fe .....	≤ 2 ppm
Acidity or alkalinity .....	Conform Ph.Eur.	Nitrite .....	Conform Ph.Eur.	Heavy metals (Pb) .....	≤ 3 ppm	K .....	≤ 500 ppm
Residue solvents .....	Conform USP	Loss on drying .....	≤ 0.5 %	Sulphate .....	≤ 200 ppm	Assay (argentimetric) .....	99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
368257	1 kg	Plastic bottle	
368259	5 kg	Plastic tank	
368253	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sodium chloride 5 mol/l (5N)

- Sodio cloruro 5 mol/l (5N) • Sodium chlorure 5 mol/l (5N) • Sodio cloruro 5 mol/l (5N)
- Natriumchlorid 5 mol/l (5N)

Synonym:  
Halite

NaCl  
Molecular Weight: 58,44  
CAS: 7647-14-5

### Sodium chloride 5 mol/l (5N) > RPE - For analysis

RPE

Clear, colourless liquid ..... Conform Assay (potentiometry) ..... 4.990 - 5.010 N

Code	Size	Packaging	Notes
502131	1 l	Plastic bottle	

**Content is guaranteed for standardized volumes at 20 °C**



## Sodium chloride 0.1 mol/l (0,1N)

- Sodio cloruro 0.1 mol/l (0,1N) • Sodium chlorure 0.1 mol/l (0,1N) • Sodio cloruro 0.1 mol/l (0,1N)
- Natriumchlorid 0.1 mol/l (0,1N)

Synonym:  
Halite

NaCl  
Molecular Weight: 58,44  
CAS: 7647-14-5

### Sodium chloride 0.1 mol/l (0,1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
479781		Plastic ampoule	Volume: 55 ml

**5,844 g NaCl. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



## Sodium citrate dibasic sesquihydrate

- Sodio citrato bibasico • Sodium citrate dibasique • Sodio citrato dibásico
- Dibasisches Natriumcitrat-Sesquihydrat

Synonym:  
Citric acid disodium salt

$C_6H_6O_7Na_2 \cdot 1.5H_2O$   
Molecular Weight: 263,1  
CAS: 144-33-2  
EEC-N: 205-623-3

### Sodium citrate dibasic sesquihydrate > ERBApharm - According to pharmacopoeia: BP

ERBApharm

Description ..... White crystalline powder pH solution 3% ..... 4.9 ÷ 5.2 Oxalate ..... ≤150 ppm Assay (acidimetric) ..... 98.0 ÷ 104.0 %  
Identification ..... Positive Chloride ..... ≤330 ppm Sulphate ..... ≤0.12 % Origin (BSE/TSE) ..... Vegetable  
Readily carbonizable substances Conform BP Heavy metals (Pb) ..... ≤20 ppm As ..... ≤2 ppm Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
367951	1 kg	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sodium citrate tribasic anhydrous

- Sodio citrato tribasico anidro • Sodium citrate tribasique anhydre • Sodio citrato tribásico anhidro • Natriumcitrat tribasisch wasserfrei

$Na_3C_6H_5O_7$   
Molecular Weight: 258,12  
CAS: 68-04-2  
EEC-N: 200-675-3

### Sodium citrate tribasic anhydrous > ERBApharm - According to pharmacopoeia: USP

ERBApharm

Description ..... White crystalline powder Alkalinity ..... Conform USP-NF Loss at 180°C ..... ≤1.0 % Assay (protonometric) ..... 99.0 ÷ 100.5 % s.s.  
Identification ..... Positive Tartrate ..... Conform USP-NF Heavy metals (Pb) ..... ≤10 ppm

Code	Size	Packaging	Notes
368107	1 kg	Plastic bottle	
368102	20 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Sodium citrate tribasic dihydrate**

• Sodio citrato tribásico biidrato • Sodium citrate tribasique bihydraté • Sodio citrato tribásico dihidrato  
• Natrium-basisches Citrat-Bihydrat

Synonym:

• *Trisodium citrate dihydrate*  
• *Citric acid trisodium salt dihydrate*

$\text{Na}_3\text{C}_6\text{H}_5\text{O}_7 \cdot 2\text{H}_2\text{O}$   
Molecular Weight: 294,1  
CAS: 6132-04-3  
EEC-N: 200-675-3

**Sodium citrate tribasic dihydrate > RPE - For analysis****RPE**

Description .....	White crystalline powder	Chloride.....	≤10 ppm	As .....	≤0.2 ppm	Pb .....	≤2 ppm
Identification .....	Positive	Total phosphorus.....	≤10 ppm	Ca .....	≤20 ppm	Zn .....	≤2 ppm
Reducing iodine .....	Conform	Water-insoluble matter .....	≤30 ppm	Cu .....	≤2 ppm	Assay (non-aqueous medium) .....	≥99 %
Ready carbonizable substances.....	Conform	Heavy metals (Pb).....	≤5 ppm	Fe .....	≤5 ppm		
pH sol. 5% at 25° C .....	7.5 ÷ 8.7	Oxalate.....	≤100 ppm	K.....	≤250 ppm		
Ammonium .....	≤10 ppm	Total sulphur .....	≤20 ppm	Ni.....	≤2 ppm		

Code	Size	Packaging	Notes
479485	250 g	Plastic bottle	
479487	1 kg	Plastic bottle	
479488	2.5 kg	Plastic bottle	
479486	25 kg	Plastic bucket	
479484	50 kg	Plastic bucket	

**Sodium citrate tribasic dihydrate > ERBapharm - According to pharmacopoeia: Ph.Eur.-USP-FU-BP-DAB****ERBapharm**

Description .....	White crystalline powder	Ready carbonizable substances.....	Conform	Chloride.....	≤50 ppm	Assay (protonometric) .99.0 ÷ 100.5 % s.s.
Identification .....	Positive	Ph.Eur.		Heavy metals (Pb).....	≤10 ppm	
Appearance of solution.....	Conform Ph.Eur.	Tartrate.....	Conform USP-NF	Oxalate .....	≤300 ppm	
Acidity or alkalinity.....	Conform Ph.Eur.	Water (K.F).....	11.0 ÷ 13.0 %	Sulphate.....	≤150 ppm	

Code	Size	Packaging	Notes
368057	1 kg	Plastic bottle	
368058	5 kg	Plastic tank	
368052	10 kg	Plastic tank	
368051	25 kg	Plastic bucket	
368054	50 kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Sodium cobalt nitrite**

• Sodio cobalto nitrito • Sodium cobalt nitrite • Sodio cobalto nitrito • Natriumkobaltnitrit

Synonym:

*Sodium hexanitrocobaltate(III)*

$\text{Na}_3\text{Co}(\text{NO}_2)_6$   
Molecular Weight: 403,94  
CAS: 13600-98-1  
EEC-N: 237-077-7

**Classification transport**

ONU: 1479  
Transport Hazard class: 5.1  
Packing group II




**Danger**

H272-H315-H319-H334-H317-H351-H335  
P210-P280-P284-P304+P340-P305+P351+P338-  
P342+P311a-P403+P233

**Sodium cobalt nitrite > RPE - For analysis****RPE**

Description .....	Dark orange powder	Identification .....	Positive	Diluted acetic acid insoluble matter .	≤ 0.02 %	Suitability for K determ. ....	Conform
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Code	Size	Packaging	Notes
479833	50 g	Glass bottle	

	<b>Sodium cyanoborohydride</b>		Synonym: <i>Sodium cyanotrihydridoborate</i>
	• Sodio cianoboroidruru • Sodium cyanoborohydruure • Sodio cianoborohidruo • Natrium-cyanoborhydrid		
Na(H <sub>3</sub> BCN) Molecular Weight: 62,84 CAS: 25895-60-7 EEC-N: 247-317-2	<b>Classification transport</b> ONU: 1409 Transport Hazard class: 4.3 Packing group I	 	<b>Danger</b> H260-H314-HEU032 P223-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338




### Sodium cyanoborohydride > RPE - For analysis

RPE

Description ..... White powder Identification ..... Positive Assay (iodometric) ..... ≥90 % s s

Code	Size	Packaging	Notes
479371	25 g	Glass bottle	

## Sodium 1-decanesulfonate ▶ 1-Decanesulfonic acid sodium salt




	<b>Sodium dichloroisocyanurate dihydrate</b>		Synonym: <i>Dichloroisocyanuric acid sodium salt dihydrate</i>
	• Sodio dicloroisocianurato biidrato • Sodium dichloroisocyanurate dihydraté • Sodio dicloroisocianurato dihidrato • Natriumdichlorisocyanatdihydrat		
C <sub>3</sub> Cl <sub>2</sub> N <sub>3</sub> NaO <sub>3</sub> ·2H <sub>2</sub> O Molecular Weight: 255,98 CAS: 51580-86-0 EEC-N: 220-767-7	<b>Classification transport</b> ONU: 3077 Transport Hazard class: 9 Packing group III	 	<b>Warning</b> H302-H319-H335-H410-HEU031 P261-P271-P304+P340-P305+P351+P338-P337+P313-P403+P233

### Sodium dichloroisocyanurate dihydrate > RPE - For analysis

RPE

Description ..... White granular powder Identification ..... Positive Assay ..... ≥ 98.0 %

Code	Size	Packaging	Notes
479921	10 g	Glass bottle	

	<b>Sodium diethyldithiocarbamate trihydrate</b>		Synonym: <i>Diethyldithiocarbamic acid sodium salt</i>
	• Sodio dietilditiocarbammato triidrato • Sodium diéthylidithiocarbamate trihydraté • Sodio dietilditiocarbamatotrihidrato • Natriumdiethyldithiocarbaminat-Trihydrat		
(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> NCSSNa·3H <sub>2</sub> O Molecular Weight: 225,23 CAS: 20624-25-3	<b>Classification transport</b> ONU: 3077 Transport Hazard class: 9 Packing group III	 	<b>Warning</b> H302-H315-H319-H335-H400 P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233

### Sodium diethyldithiocarbamate trihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Whyte-yellow crystals Copper sensitivity ..... Conform Sodium (Na2S04) ..... 30.5 ± 32.5 %  
Identification (I.R.) ..... Conform Water solubility ..... Conform

Code	Size	Packaging	Notes
405144	100 g	Plastic bottle	

Indicator for the determination of heavy metals

## Sodium dihydrogen phosphate dihydrate ▶ Sodium phosphate monobasic dihydrate

## Sodium dihydrogen phosphate monohydrate ▶ Sodium phosphate monobasic monohydrate

## Sodium dithionite ▶ Sodium hydrosulfite

## Sodium 1-dodecanesulfonate ▶ 1-Dodecanesulfonic acid sodium salt

## Sodium dodecylbenzenesulfonate ▶ Dodecylbenzenesulphonic acid sodium salt

## Sodium dodecyl sulfate ▶ Sodium laurylsulfate

**Sodium fluoride**

• Sodio fluoruro • Sodium fluorure • Sodio fluoruro • Natriumfluorid

NaF  
Molecular Weight: 41,99  
CAS: 7681-49-4  
EEC-N: 231-667-8

**Classification transport**  
ONU: 1690  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H315-H319-HEU032  
P301+P310a-P330-P305+P351+P338-P362+P364-P332+P313-P337+P313

**Sodium fluoride > RPE - For analysis - ACS - ISO****RPE**

Description .....	White crystalline powder	Alcalinity .....	≤0.01 meq/g	Heavy metals (Pb).....	≤30 ppm	K.....	≤200 ppm
Identification .....	Positive	Chloride.....	≤50 ppm	Sulphate.....	≤300 ppm	Assay (acidimetric) .....	≥99 %
Loss on drying .....	≤0.3 %	Fluosilicates.....	≤0.1 %	Sulphite.....	≤50 ppm		
Acidity .....	≤0.03 meq/g	Water-insoluble matter .....	≤200 ppm	Fe.....	≤30 ppm		

Code	Size	Packaging	Notes
479955	250 g	Plastic bottle	
479957	1 kg	Plastic bottle	
479954	25 kg	Plastic bucket	

**Sodium fluoride > RE - Pure****RE**

Description .....	White crystalline powder	Chloride.....	≤ 100 ppm	Sulphate.....	≤ 5000 ppm	Assay .....	≥ 97 %
Identification .....	Positive	Heavy metals (Pb).....	≤ 100 ppm	Fe.....	≤ 200 ppm		

Code	Size	Packaging	Notes
368457	1 kg	Plastic bottle	
368458	5 kg	Plastic tank	
368451	25 kg	Plastic bucket	

**Sodium formate**

• Sodio formiato • Sodium formiate • Sodio formiato • Natriumformiat

Synonym:  
*Formic acid sodium salt*

HCOONa  
Molecular Weight: 68,01  
CAS: 141-53-7  
EEC-N: 205-488-0



**Warning**  
H319  
P264-P280i-P305+P351+P338-P337+P313

**Sodium formate > RPE - For analysis - ACS****RPE**

Description .....	White crystalline powder	Chloride.....	≤ 10 ppm	Fe.....	≤ 5 ppm
Identification .....	Positive	Sulphate.....	≤ 10 ppm	Heavy metals (Pb).....	≤ 5 ppm
Not soluble matter.....	≤ 50 ppm	Ca.....	≤ 50 ppm	Assay (oxidimetric) .....	> 99.0 %

Code	Size	Packaging	Notes
480045	100 g	Plastic bottle	
480046	500 g	Plastic bottle	





## Sodium gluconate

• Sodio gluconato • Sodium gluconate • Sodio gluconato • Natriumgluconat

Synonym:

- 2,3,4,5,6-Pentahydroxycaproic acid sodium salt
- D-gluconate sodium salt

$C_6H_{11}NaO_7$   
Molecular Weight: 218,13  
CAS: 527-07-1  
EEC-N: 208-407-7

### Sodium gluconate > RE - Pure

RE

Description ..... White powder      Chloride..... ≤500 ppm      Assay (non-aqueous medium) ..... ≥98 %  
Identification ..... Positive      Red.ing sugars(Glucose) ..... ≤1 %

Code	Size	Packaging	Notes
369582	1 kg	Plastic bottle	
369581	10 kg	Carton box	



## Sodium glutamate acid

• Sodio glutammato acido • Sodium glutamate • Sodio glutamato acido • Natriumglutamatsäure

Synonym:

- L-Glutamic acid monosodium salt hydrate
- L-2-Aminopentanedioic acid

$C_5H_8NO_4Na \cdot H_2O$   
Molecular Weight: 187  
CAS: 142-47-2  
EEC-N: 205-538-1

### Sodium glutamate acid > RE - Pure

RE

Description ..... White cryst. need.sha      Identification ..... Positive      Potere rotator. specif.(C=1 HCl 6N).. +23 ÷ +25.3 °      Assay (ex nitrogen) ..... ≥ 98 %

Code	Size	Packaging	Notes
369667	1 kg	Plastic bottle	
369663	25 kg	Plastic bucket	



## Sodium glycerophosphate pentahydrate

• Sodio glicerofosfato pentaidrato • Sodium glycérophosphate pentahydraté  
• Sodio glicerofosfato pentahidrato • Natriumglycerophosphatpentahydrat

Synonym:

- Glycerol-2-phosphate disodium salt hydrate
- BGP

$C_3H_7O_8PNa_2 \cdot 5H_2O$   
Molecular Weight: 306  
CAS: 13408-09-8

### Sodium glycerophosphate pentahydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.

ERBApharm

Description ..... White crystalline powder      Fe ..... ≤ 20 ppm      Chloride..... ≤ 0.02 %      Assay ..... 98.0 ÷ 105.0 % anidro  
Identification ..... Positive      Appearance of solution ..... Conform Ph.Eur.      Glycerol and alcohol-soluble substances... ≤ 1.0 %  
Phosphate ..... ≤ 0.1 %      Alkalinity ..... Conform Ph.Eur.      Sulphate ..... ≤ 0.05 %  
Heavy metals (Pb)..... ≤ 20 ppm      Water (K.F) ..... 25.0 ÷ 35.0 %

Code	Size	Packaging	Notes
369447	1 kg	Plastic bottle	
369449	5 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

## Sodium 1-heptanesulfonate ▶ 1-Heptanesulphonic acid sodium salt

**Sodium hexafluorosilicate**

• Sodio esafluorosilicato • Sodium hexafluorosilicate • Sodio hexafluorosilicato • Natriumhexafluorosilikat

Na<sub>2</sub>SiF<sub>6</sub>

Molecular Weight: 188,06

CAS: 16893-85-9

EEC-N: 240-934-8

**Classification transport**

ONU: 2674

Transport Hazard class: 6.1

Packing group III

**Danger**

H301-H311-H331

P261-P304+P340-P311a-P330-P361+P364-

P403+P233

**Sodium hexafluorosilicate > RPE - For analysis****RPE**

Description ..... White crystalline powder    Chloride.....≤200 ppm    Heavy metals (Pb).....≤50 ppm    Assay (acidimetric) ..... ≥98.5 %  
 Identification ..... Positive    Sulphate.....≤200 ppm    Fe .....≤50 ppm

Code	Size	Packaging	Notes
480005	250 g	Plastic bottle	

**Sodium hexametaphosphate**• Sodio esametafosfato • Sodium hexamétaphosphate • Sodio hexametafosfato • Natriumhexametaphosphat    *Sodium metaphosphate*

Synonym:

(NaPO<sub>3</sub>)<sub>6</sub>

Molecular Weight: 611,76

CAS: 10124-56-8

EEC-N: 233-343-1

**Sodium hexametaphosphate > RE - Pure****RE**

Description ..... white hygroscopic powder    pH (1% solution)..... 5.8 ÷ 6.5    Fe .....≤500 ppm  
 Identification ..... Positive    Water insoluble substances.....≤ 0.06 %    Assay (as P2O3).....≥ 68 %

Code	Size	Packaging	Notes
368357	1 kg	Plastic bottle	
368351	10 kg	Plastic tank	
368352	25 kg	Plastic bucket	

Sodium 1-hexanesulfonate ▶ 1-Hexanesulphonic acid sodium salt

Sodium 1-hexanesulfonate monohydrate ▶ 1-Hexanesulphonic acid sodium salt monohydrate

Sodium hexanitrocobaltate(III) ▶ Sodium cobalt nitrite

Sodium hydrogen carbonate ▶ Sodium bicarbonate

di-Sodium hydrogen phosphate ▶ Sodium phosphate dibasic anhydrous

di-Sodium hydrogen phosphate dihydrate ▶ Sodium phosphate dibasic dihydrate

di-Sodium hydrogen phosphate dodecahydrate ▶ Sodium phosphate dibasic dodecahydrate

Sodium hydrogen sulfate monohydrate ▶ Sodium bisulfate monohydrate



## Sodium hydrogen tartrate monohydrate

• Sodio tartrato acido • Sodium tartrate acide • Sodio tartrato acido • Natriumhydrogentartratmonohydrat

Synonym:  
Sodium bitartrate monohydrate

NaOOC(CHOH)<sub>2</sub>COOH.H<sub>2</sub>O  
Molecular Weight: 190,09  
CAS: 526-94-3  
EEC-N: 208-400-9

### Sodium hydrogen tartrate monohydrate > RPE - For analysis

RPE

Description .....	White crystals	Chloride.....	≤ 10 ppm	As .....	≤ 0.4 ppm	Ni.....	≤ 2 ppm
Identification .....	Positive	Total phosphorus.....	≤ 10 ppm	Ca .....	≤ 100 ppm	Pb.....	≤ 2 ppm
pH sol. 5% at 25° C.....	3.30 ÷ 3.60	Water-insoluble matter .....	≤ 50 ppm	Cu.....	≤ 2 ppm	Zn.....	≤ 2 ppm
Loss on drying .....	9 ÷ 10 %	Heavy metals (Pb).....	≤ 10 ppm	Fe .....	≤ 10 ppm	Assay (acidimetric) .....	≥ 99.5 %
Ammonium.....	≤ 50 ppm	Total sulphur .....	≤ 50 ppm	K.....	≤ 100 ppm		

Code	Size	Packaging	Notes
483706	500 g	Plastic bottle	
483703	25 kg	Fibre drum	



## Sodium hydrosulfite

• Sodio idrosolfito • Sodium hydrosulfite • Sodio idrosolfito • Natriumdithionit

Synonym:  
Sodium dithionite

Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub>  
Molecular Weight: 174,11  
CAS: 7775-14-6  
EEC-N: 231-890-0

**Classification transport**  
ONU: 1384  
Transport Hazard class: 4.2  
Packing group II



**Danger**  
H251-H319-HEU031  
P235-P264-P280-P305+P351+P338-  
P337+P313-P420

### Sodium hydrosulfite > RE - Pure

RE

Description .....	White crystalline powder	Identification .....	Positive	Assay (oxidimetric) .....	≥ 80 %
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Code	Size	Packaging	Notes
370011	1 kg	Metallic can	
370014	2.5 kg	Metallic can	



## Sodium hydroxide, pearls

• Sodio idrossido, perline • Sodium hydroxyde, perles • Sodio hidróxido, perlas • Natriumhydroxid, Perlen

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1823  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sodium hydroxide, pearls > ERBApharm - According to pharmacopoeia: Ph.Eur.-NF

ERBApharm

Description .....	Pearls white	pH.....	≥ 11.0	Sulphate .....	≤ 200 ppm	Origin (BSE/TSE).....	Synthesis
Identification .....	Positive	Carbonate.....	≤ 2.0 %	Fe .....	≤ 10 ppm	Residual solvents (Current ICH).....	Conform
Appearance of solution.....	Conform Ph. Eur.	Chloride.....	≤ 200 ppm	Assay (total alkalinity) .....	97.0 ÷ 100.5 %		
Not sol.matter,org.mat.....	Conform NF	Heavy metals (Pb).....	≤ 20 ppm	Content of sodium .....	54.0 ÷ 59.8 %		

Code	Size	Packaging	Notes
369743	1 kg	Plastic bottle	
369741	5 kg	Plastic tank	
369742	25 kg	Sack	
369744	25 kg	Plastic bucket	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade

**Sodium hydroxide, pellets**

• Sodio idrossido, gocce • Sodium hydroxyde, pastilles • Sodio hidróxido, lentejas • Natriumhydroxid, Pellets

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5**Classification transport**  
ONU: 1823  
Transport Hazard class: 8  
Packing group II**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Sodium hydroxide, pellets > RS - RSE - For electronic use****RS**

Description .....	White pellets	Heavy metals (Pb).....	≤2 ppm	Cd.....	≤0.1 ppm	Mn.....	≤0.5 ppm
Identification .....	Positive	Silicate.....	≤20 ppm	Cu.....	≤0.5 ppm	Ni.....	≤2 ppm
Total nitrogen.....	≤3 ppm	Sulphate.....	≤5 ppm	Fe.....	≤3 ppm	Pb.....	≤1 ppm
Carbonate.....	≤5000 ppm	Al.....	≤2 ppm	Hg.....	≤0.1 ppm	Zn.....	≤1 ppm
Chloride.....	≤10 ppm	As.....	≤0.5 ppm	K.....	≤100 ppm	Assay (alkalimetric).....	≥98.5 %
Phosphate.....	≤5 ppm	Ca.....	≤5 ppm	Mg.....	≤5 ppm		

Code	Size	Packaging	Notes
480527	1 kg	Plastic bottle	
480522	5 kg	Plastic jar	
480525	25 kg	Plastic bucket	

**Sodium hydroxide, pellets > RPE - For analysis - ACS - ISO****RPE**

Description .....	White pellets	Chloride.....	≤ 50 ppm	Ca.....	≤ 50 ppm	Mg.....	≤ 20 ppm
Identification .....	Positive	Phosphate.....	≤ 10 ppm	Fe.....	≤ 10 ppm	Ni.....	≤ 10 ppm
Total nitrogen.....	≤ 10 ppm	Sulphate.....	≤ 30 ppm	Hg.....	≤ 0.1 ppm	Assay (alkalimetric).....	≥ 97.0 %
Carbonate.....	≤ 1.0 %	Heavy metals (Ag).....	≤ 20 ppm	K.....	≤ 0.02 %		

Code	Size	Packaging	Notes
480505	100 g	Plastic bottle	
480501	500 g	Plastic bottle	
480507	1 kg	Plastic bottle	
480509	5 kg	Plastic jar	
480502	10 kg	Plastic tank	
480508	25 kg	Plastic bucket	

**Sodium hydroxide, pellets > ERBApharm - According to pharmacopoeia: BP-NF-Ph.Eur.-JP****ERBApharm**

Description .....	white or almost white pellets	pH.....	≥11.0	Fe.....	≤10 ppm	Assay (total alkalinity).....	97.0 ÷ 100.5 %
Identification .....	Positive	Carbonate.....	≤2.0 %	K.....	≤ 0.5 %	Content of sodium.....	54.0 - 59.8 %
Appearance of solution.....	Conform Ph.Eur.	Chloride.....	≤200 ppm	Sulphate.....	≤200 ppm	Origin (BSE/TSE).....	Synthesis
Not sol.matter.org.mat.....	Conform USP-NF	Heavy metals (Pb).....	≤ 30 ppm (JP)	Hg.....	≤ 0.1 ppm	Residual solvents (Current ICH).....	Conform

Code	Size	Packaging	Notes
369777	1 kg	Plastic bottle	
369772	5 kg	Plastic tank	
369771	20 kg	Plastic bucket	
369774	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sodium hydroxide on silica

- Sodio idrossido su silice • Sodium hydroxyde sur silice • Sodio hidróxido sobre sílice
- Natriumhydroxid auf Kieselgel

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1823  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314-H335  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Sodium hydroxide on silica > RS - For microanalysis

RS

Description .....Dark grey granules Identification .....Positive Average grain diameter..... 1.6 ÷ 3 mm ca. CO2 absorption..... ≥30 %

Code	Size	Packaging	Notes
424494	100 g	Glass bottle	
424497	1 kg	Plastic bottle	



## Sodium hydroxide solution 50%

- Sodio idrossido soluzione 50% • Sodium hydroxyde solution 50% • Sodio hidróxido solución 50%
- Natronlauge 50 %

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sodium hydroxide solution 50% > RPE - For analysis

RPE

Assay ..... 48 - 51.5 % Density d20/4 ..... 1.5 - 1.54 NaCl ..... ≤ 0.02 %  
Iron (Fe) ..... ≤ 15 mg/Kg Na2CO3 ..... ≤ 0.7 %

Code	Size	Packaging	Notes
P4540041	10 l	Plastic tank	
P4540049	25 l	Plastic tank	



## Sodium hydroxide solution 40%

- Sodio idrossido soluzione 40% • Sodium hydroxyde solution 40% • Sodio hidróxido solución 40%
- Natronlauge 40%

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sodium hydroxide solution 40% > RS - For agroalimentary analysis

RS

Colour ..... ≤ 10 APHA Density at 20°C ..... 1.420 ÷ 1.440 Total nitrogen ..... ≤ 10 ppm  
Description ..... Clear colourless liquid Assay ..... 39.0 ÷ 41.0 %

Code	Size	Packaging	Notes
502721	5 l	Plastic tank	
502722	10 l	Plastic tank	

572 g of NaOH for 1 L

**Sodium hydroxide solution 35-37%**

• Sodio idrossido soluzione 35-37% • Sodium hydroxide solution 35-37% • Sodio hidróxido solución 35-37%  
• Natronlauge 35-37%

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Sodium hydroxide solution 35-37% > RS - For agroalimentary analysis****RS**

Description ..... Clear colourless liquid    Colour ..... ≤ 10 APHA    Density at 20°C ..... 1.380 ÷ 1.400    Nitrogen compounds ..... ≤ 10 ppm

Code	Size	Packaging	Notes
502112	5 l	Plastic tank	

**500g of NaOH for 1L . According to normative T90-110****Sodium hydroxide solution 35%**

• Sodio idrossido soluzione 35% • Sodium hydroxide solution 35% • Sodio hidróxido solución 35%  
• Natronlauge 35 %

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Sodium hydroxide solution 35% > RPE - For analysis****RPE**

Density d20/4 ..... 1.38 - 1.39    Assay ..... 35 - 36 %    Assay (alkalimetric) ..... 35 - 36 %  
Description ..... Clear colourless liquid    Density at 20° C ..... 1.38 - 1.39

Code	Size	Packaging	Notes
480591	1 l	Plastic bottle	
480593	25 kg	Plastic tank	

**Sodium hydroxide solution 32%**

• Sodio idrossido soluzione 32% • Sodium hydroxide solution 32% • Sodio hidróxido solución 32%  
• Natronlauge 32%

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Sodium hydroxide solution 32% > RS - For agroalimentary analysis****RS**

Assay ..... 30 - 34 %    Density at 20°C ..... 1.322 - 1.374    Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
524510	25 kg	Plastic tank	

**Sodium hydroxide solution 32% > RS - For Kjeldahl****RS**

Description ..... Slightly opalescent liquid    Assay ..... 31.0 - 33.0 %    Nitrogen compounds ..... ≤ 1 ppm  
Colour ..... ≤ 10 APHA    Density at 20°C ..... 1.339 - 1.359

Code	Size	Packaging	Notes
480561	1 l	Plastic bottle	
480566	2.5 l	Plastic bottle	
526521	5 l	Plastic tank	
480564	10 l	Plastic tank	
480562	25 kg	Plastic tank	
480563	30 kg	Plastic tank	





## Sodium hydroxide solution 30%

• Sodio idrossido soluzione 30% • Sodium hydroxide solution 30% • Sodio hidróxido solución 30%  
• Natronlauge 30%

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sodium hydroxide solution 30% > RS - For agroalimentary analysis

**RS**

Description ..... Slightly opalescent liquid    Colour ..... ≤ 10 APHA    Density at 20°C ..... ≥ 1.323

Code	Size	Packaging	Notes
502741	5 l	Plastic tank	

### Sodium hydroxide solution 30% > RPE - For analysis

**RPE**

Na2CO3 ..... ≤ 0.5 %    Chloride (Cl-) ..... ≤ 10 mg/Kg    Sodium hydroxide content ..... 30 - 31 %  
Silicate (as SiO2) ..... ≤ 30 mg/Kg    Rapprochement BA/FT ..... Conform

Code	Size	Packaging	Notes
P1050552	30 l	Plastic tank	

### Sodium hydroxide solution 30% > RPE - For nitrogen dosing

**RPE**

Description ..... Clear colourless liquid    Density at 20°C ..... 1.323 ÷ 1.333    Assay ..... 29.5 ÷ 30.5 %  
Colour ..... ≤ 10 APHA    Total nitrogen ..... ≤ 1 ppm

Code	Size	Packaging	Notes
502731	1 l	Plastic bottle	

### Sodium hydroxide solution 30% > ERBApharm - Prepared from raw material according Ph.Eur

**ERBApharm**

Description ..... Clear colourless liquid    Density at 20°C ..... 1.311 ÷ 1.344    Iron ..... ≤ 10 ppm    Assay ..... 29.5 ÷ 30.5 %  
Colour ..... ≤ 10 APHA    Chloride ..... ≤ 200 ppm    Heavy metals (Pb) ..... ≤ 20 ppm  
Identification ..... Positive    Sulphate ..... ≤ 200 ppm    Carbonate ..... ≤ 0.6 %

Code	Size	Packaging	Notes
369704	1 l	Plastic bottle	
369702	20 l	Plastic tank	
369701000	10 kg	Plastic tank	
369706	200 l	Plastic drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

### Sodium hydroxide solution 30% > RE - Pure

**RE**

Description ..... Opalescent liquid    Density at 20°C ..... 1.306 - 1.349    Carbonate ..... ≤ 1.2 %    Sulphate ..... ≤ 150 ppm  
Identification ..... Positive    Alkalinity (NaOH) ..... 28.0 ÷ 32.0 %    Chloride ..... ≤ 300 ppm    Fe ..... ≤ 30 ppm

Code	Size	Packaging	Notes
369762	10 kg	Plastic tank	
369761	30 kg	Plastic tank	
369766	50 kg	Plastic tank	

**Sodium hydroxide solution 20% w/v**

- Sodio idrossido soluzione 20% p/v • Sodium hydroxide solution 20% m/v
- Sodio hidróxido solución 20% p/v • Natronlauge 20% w/v

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Sodium hydroxide solution 20% w/v > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611081401	1 l	Plastic bottle	Ref Ph.Eur 1081401

**Sodium hydroxide solution 20% w/v > RPE - For analysis****RPE**

Description ..... Slightly opalescent liquid    Colour ..... ≤ 10 APHA    Assay (NaOH) ..... 19.9 ÷ 20.1 %m/v

Code	Size	Packaging	Notes
524505	10 l	Plastic tank	

**Sodium hydroxide solution 20% w/w**

- Sodio idrossido soluzione 20% p/p • Sodium hydroxide solution à 20% m/m • Sodio hidróxido solución 20% p/p • Natronlauge 20% w/w

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Sodium hydroxide solution 20% w/w > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.213 - 1.225    Assay (alkalimetric) ..... 19.5 - 20.5 %    Carbonate ..... ≤1 %

Code	Size	Packaging	Notes
480621	1 l	Plastic bottle	
480622	30 kg	Plastic tank	

**Sodium hydroxide solution 20% w/w > ERBAPharm - Prepared from raw material according Ph.Eur****ERBAPharm**

Description ..... Clear colourless liquid    Assay (alkalimetric) ..... 19.5 - 20.5 %    Origine (BSE-TSE) ..... Conform  
Density at 20° C ..... 1.213 - 1.225    Carbonate ..... ≤1 %    Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
480631	1 l	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Sodium hydroxide solution 10% w/v**

- Sodio idrossido soluzione 10% p/v • Sodium hydroxide solution 10% m/v
- Sodio hidróxido solución 10% p/v • Natronlauge 10% w/v

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Sodium hydroxide solution 10% w/v > RS - For agroalimentary analysis****RS**

Description ..... Slightly opalescent liquid    Identification ..... Positive    Assay (NaOH) ..... 9 - 11 %m/v

Code	Size	Packaging	Notes
508615	5 l	Plastic tank	

## Sodium hydroxide solution 10% w/v > RPE - For analysis

**RPE**

Description ..... Slightly opalescent liquid Colour ..... ≤ 10 APHA Assay (NaOH) ..... 9.9 ÷ 10.1 %m/v

Code	Size	Packaging	Notes
524506	5 l	Plastic tank	
524507	10 l	Plastic tank	

## Sodium hydroxide solution 10% w/v > RE - Pure

**RE**

Description ..... Slightly opalescent liquid Colour ..... ≤ 10 APHA Assay (NaOH) ..... 9.5 ÷ 10.5 %m/v

Code	Size	Packaging	Notes
526642	5 l	Plastic tank	
526641	10 l	Plastic tank	
526644	50 l	Plastic tank	



## Sodium hydroxide solution 5% w/v

 • Sodio idrossido soluzione 5% p/v • Sodium hydroxyde solution 5% m/v • Sodio hidróxido solución 5% w/v  
 • Natronlauge 5% w/v

 Synonym:  
 Caustic soda

 NaOH  
 Molecular Weight: 40  
 CAS: 1310-73-2  
 EEC-N: 215-185-5

**Classification transport**  
 ONU: 1824  
 Transport Hazard class: 8  
 Packing group II

**Danger**  
 H290-H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## Sodium hydroxide solution 5% w/v > RPE - For analysis

**RPE**

Description ..... Slightly opalescent liquid Colour ..... ≤ 10 APHA Assay (NaOH) ..... 4.9 ÷ 5.1 %m/v

Code	Size	Packaging	Notes
524502	5 l	Plastic tank	
524501	10 l	Plastic tank	

## Sodium hydroxide solution 5% w/v > RE - Pure

**RE**

Description ..... Slightly opalescent liquid Colour ..... ≤ 10 APHA Assay (NaOH) ..... 4.5 - 5.5 %m/v

Code	Size	Packaging	Notes
526632	5 l	Plastic tank	
526634	10 l	Plastic tank	



## Sodium hydroxide 6 mol/l (6N)

• Sodio idrossido 6 mol/l (6N) • Sodium hydroxyde 6 mol/l (6N) • Sodio hidróxido 6 mol/l (6N) • Natronlauge 6 mol/l (6N)

 NaOH  
 Molecular Weight: 40  
 CAS: 1310-73-2  
 EEC-N: 215-185-5

**Classification transport**  
 ONU: 1824  
 Transport Hazard class: 8  
 Packing group II

**Danger**  
 H290-H314  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## Sodium hydroxide 6 mol/l (6N) > ERBApharm - Prepared from raw material according Ph.Eur

**ERBApharm**

Assay (potentiometry) ..... 5.982 - 6.018 N Colour ..... ≤ 100 Hazen

Code	Size	Packaging	Notes
524651	2 l	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Sodium hydroxide 5 mol/l (5N)**

- Sodio idrossido 5 mol/l (5N) • Sodium hydroxyde 5 mol/l (5N) • Sodio hidróxido 5 mol/l (5N)
- Natronlauge 5 mol/l (5N)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Sodium hydroxide 5 mol/l (5N) > RS - For agroalimentary analysis****RS**

Description ..... Clear colourless liquid Assay ..... 4.995 ÷ 5.005 N

Code	Size	Packaging	Notes
526513	1 l	Plastic bottle	
526512	5 l	Plastic tank	

**Content is guaranteed for standardized volumes at 20°C**

**Sodium hydroxide 4 mol/l (4N)**

- Sodio idrossido 4 mol/l (4N) • Sodium hydroxyde 4 mol/l (4N) • Sodio hidróxido 4 mol/l (4N) • Natronlauge 4 mol/l (4N)

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Sodium hydroxide 4 mol/l (4N) > RPE - For agroalimentary analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 3.992 - 4.008 N

Code	Size	Packaging	Notes
502662	2.5 l	Plastic bottle	
502664	10 l	Plastic tank	

**Sodium hydroxide 3 mol/l (3N)**

- Sodio idrossido 3 mol/l (3N) • Sodium hydroxyde 3 mol/l (3N) • Sodio hidróxido 3 mol/l (3N)
- Natronlauge 3 mol/l (3N)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Sodium hydroxide 3 mol/l (3N) > ERBApharm - Prepared from raw material according Ph.Eur****ERBApharm**

Identification (Ph.Eur).....Conform Assay (Ph.Eur).....2.85 - 3.15 N Origine (BSE-TSE).....Conform Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
524732	500 ml	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sodium hydroxide 2 mol/l (2N)

- Sodio idrossido 2 mol/l (2N) • Sodium hydroxyde 2 mol/l (2N) • Sodio hidróxido 2 mol/l (2N)
- Natronlauge 2 mol/l (2N)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sodium hydroxide 2 mol/l (2N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 84.....

Code	Size	Packaging	Notes
480686000	500 ml	Plastic bottle	Certified with NIST traceability
480687000	1 l	Plastic bottle	Certified with NIST traceability
480682000	5 l	Plastic tank	Certified with NIST traceability
480681000	10 l	Kubidos	Certified with NIST traceability
480684000	20 l	Plastic tank	Certified with NIST traceability

80 g de NaOH. Volumetric solution ready-to-use

### Sodium hydroxide 2 mol/l (2N) > ERBapharm - Prepared from raw material according Ph.Eur

ERBapharm

Identification (Ph.Eur)..... Conform Assay (Ph.Eur)..... 1.9 - 2.1 N Origine (BSE-TSE)..... Conform Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
524671	1 l	Plastic bottle	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade



## Sodium hydroxide 1.2 mol/l (1.2N)

- Sodio idrossido 1.2 mol/l (1.2N) • Sodium hydroxyde 1.2 mol/l (1.2N) • Sodio hidróxido 1.2 mol/l (1.2N)
- Natronlauge 1.2 mol/l (1.2N)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sodium hydroxide 1.2 mol/l (1.2N) > RS - For analysis

RS

Assay (potentiometry) ..... 1.1976 - 1.2024 N

Code	Size	Packaging	Notes
PS0736/41	10 l	Plastic tank	
PS0736/42	20 l	Plastic tank	
PS0736/49	25 l	Plastic tank	



## Sodium hydroxide 1 mol/l (1N)

- Sodio idrossido 1 mol/l (1N) • Sodium hydroxyde 1 mol/l (1N) • Sodio hidróxido 1 mol/l (1N)
- Natronlauge 1 mol/l (1N)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sodium hydroxide 1 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613006301	500 ml	Plastic bottle	Ref Ph.Eur 3006300
613006300	1 l	Plastic bottle	Ref Ph.Eur 3006300

**Sodium hydroxide 1 mol/l (1N) > RS - For analysis according to USP**

RS

Code	Size	Packaging	Notes
617000121	500 ml	Plastic bottle	

**Sodium hydroxide 1 mol/l (1N) > RPE - For analysis**

RPE

Description ..... Clear colourless liquid Identification ..... Positive Assay (potentiometry) ..... 0.999 - 1.001 N NIST 84 ..... I

Code	Size	Packaging	Notes
480717000	1 l	Plastic bottle	Certified with NIST traceability
480711000	5 l	Kubidos	Certified with NIST traceability
480714000	5 l	Plastic tank	Certified with NIST traceability
480713000	10 l	Kubidos	Certified with NIST traceability

**40 g de NaOH. Volumetric solution ready-to-use****Sodium hydroxide 1 mol/l (1N) > RPE - NORMEX - For analysis**

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ± 1.005

Code	Size	Packaging	Notes
480741		Plastic ampoule	Volume: 165 ml

**40 g NaOH. Volumetric concentrated solution to prepare 1 L of solution 1 N****Sodium hydroxide 1 mol/l (1N) > ERBApharm - Prepared from raw material according USP - NF**

ERBApharm

Identification (USP) ..... Conform Origine (BSE-TSE) ..... Conform  
Assay (USP) ..... 0.95 - 1.05 N Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
524761	1 l	Plastic bottle	

**Sodium hydroxide 1 mol/l (1N) > ERBApharm - Prepared from raw material according Ph.Eur**

ERBApharm

Identification (Ph.Eur) ..... Conform Origine (BSE-TSE) ..... Conform  
Assay (Ph.Eur) ..... 0.95 - 1.05 N Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
524621	1 l	Plastic bottle	

**Sodium hydroxide 0.7 mol/l (N/1.4)**

- Sodio idrossido 0.7 mol/l (N/1.4) • Sodium hydroxyde 0.7 mol/l (N/1.4) • Sodio hidróxido 0.7 mol/l (N/1.4)
- Natronlauge 0.7 mol/l (N/1.4)

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Sodium hydroxide 0.7 mol/l (N/1.4) > RS - For agroalimentary analysis**

RS

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Assay ..... 0.710 ± 0.718 N

Code	Size	Packaging	Notes
526511	10 l	Kubidos	





## Sodium hydroxide 0.5 mol/l (0.5N)

- Sodio idrossido 0.5 mol/l (0.5N) • Sodium hydroxyde 0.5 mol/l (0.5N) • Sodio hidróxido 0.5 mol/l (0.5N)
- Natronlauge 0.5 mol/l (0.5N)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sodium hydroxide 0.5 mol/l (0.5N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 84 .....

Code	Size	Packaging	Notes
480777000	1 l	Plastic bottle	Certified with NIST traceability
480771000	5 l	Kubidos	Certified with NIST traceability
480772000	10 l	Kubidos	Certified with NIST traceability
480773000	10 l	Plastic tank	Certified with NIST traceability

**20 g of NaOH. Volumetric solution ready-to-use**

### Sodium hydroxide 0.5 mol/l (0.5N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
480801		Plastic ampoule	Volume: 55 ml

**20 g of NaOH. Volumetric concentrated solution to prepare 1 L of solution 0,5 N**



## Sodium hydroxide 0.357 mol/l (0.357N)

- Sodio idrossido 0.357 mol/l (0.357N) • Sodium hydroxyde 0.357 mol/l (0.357N)
- Sodio hidróxido 0.357 mol/l (0.357N) • Natronlauge 0.357 mol/l (0.357N)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group III



**Warning**  
H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Sodium hydroxide 0.357 mol/l (0.357N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.3566 - 0.3574 N NIST 84 .....

Code	Size	Packaging	Notes
480837000	1 l	Plastic bottle	Certified with NIST traceability

**14.28 g of NaOH. Volumetric solution ready-to-use: 1/2.82N**



## Sodium hydroxide 0.25 mol/l (0.25N)

- Sodio idrossido 0.25 mol/l (0.25N) • Sodium hydroxyde 0.25 mol/l (0.25N)
- Sodio hidróxido 0.25 mol/l (0.25N) • Natronlauge 0.25 mol/l (0.25N)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group III



**Warning**  
H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Sodium hydroxide 0.25 mol/l (0.25N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.2498 - 0.2503 N NIST 84 .....

Code	Size	Packaging	Notes
480867000	1 l	Plastic bottle	Certified with NIST traceability
480861000	5 l	Kubidos	Certified with NIST traceability
480862000	10 l	Kubidos	Certified with NIST traceability
480863000	25 l	Plastic tank	Certified with NIST traceability

**10 g of NaOH. Volumetric solution ready-to-use**

**Sodium hydroxide 0.25 mol/l (0.25N) > ERBApharm - Prepared from raw material according Ph.Eur****ERBApharm**

Colour ..... ≤ 100 APHA Assay ..... 0.2495 ÷ 0.2505 N

Code	Size	Packaging	Notes
369812	5 l	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade. Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**

**Sodium hydroxide 0.2 mol/l (0.2N)**

• Sodio idrossido 0.2 mol/l (0.2N) • Sodium hydroxyde 0.2 mol/l (0.2N) • Sodio hidróxido 0.2 mol/l (0.2N)  
• Natronlauge 0.2 mol/l (0.2N)

Synonym:  
Caustic soda

NaOH Molecular Weight: 40 CAS: 1310-73-2	<b>Classification transport</b> ONU: 1824 Transport Hazard class: 8 Packing group III		<b>Warning</b> H315-H319 P264-P280a-P305+P351+P338-P332+P313- P362+P364-P337+P313
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**Sodium hydroxide 0.2 mol/l (0.2N) > RS - For agroalimentary analysis****RS**

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Assay ..... 0.19 ÷ 0.21 M

Code	Size	Packaging	Notes
502782	500 ml	Plastic bottle	
502781000	10 l	Plastic tank	

**Sodium hydroxide 0.2 mol/l (0.2N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.1998 - 0.2002 N

Code	Size	Packaging	Notes
P3440015	1 l	Plastic bottle	

**Sodium hydroxide 1/9 mol/l (N/9)**

• Sodio idrossido 1/9 mol/l (N/9) • Sodium hydroxyde 1/9 mol/l (N/9) • Sodio hidróxido 1/9 mol/l (N/9)  
• Natronlauge 1/9 mol/l (N/9)

Synonym:  
Caustic soda

NaOH Molecular Weight: 40 CAS: 1310-73-2	<b>Classification transport</b> ONU: 1824 Transport Hazard class: 8 Packing group III		<b>Warning</b> H315-H319 P264-P280a-P305+P351+P338-P332+P313- P362+P364-P337+P313
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**Sodium hydroxide 1/9 mol/l (N/9) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.1109 - 0.1113 N

Code	Size	Packaging	Notes
P4500022	5 l	Plastic tank	

**Sodium hydroxide 0.1 mol/l (0.1N)**

• Sodio idrossido 0.1 mol/l (0.1N) • Sodium hydroxyde 0.1 mol/l (0.1N) • Sodio hidróxido 0.1 mol/l (0.1N)  
• Natronlauge 0.1 mol/l (0.1N)

Synonym:  
Caustic soda

NaOH Molecular Weight: 40 CAS: 1310-73-2			
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**Sodium hydroxide 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613006601	500 ml	Plastic bottle	Ref Ph.Eur 3006600
613006600	1 l	Plastic bottle	Ref Ph.Eur 3006600

**Sodium hydroxide 0.1 mol/l (0.1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 84 .....

Code	Size	Packaging	Notes
480897000	1 l	Plastic bottle	Certified with NIST traceability
480891000	5 l	Kubidos	Certified with NIST traceability
480892000	10 l	Kubidos	Certified with NIST traceability
480893000	10 l	Plastic tank	Certified with NIST traceability
480895000	50 l	Plastic drum	Certified with NIST traceability

**4 g of NaOH. Volumetric solution ready-to-use****Sodium hydroxide 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
480921		Plastic ampoule	Volume: 55 ml

**4 g of NaOH. Volumetric concentrated solution to prepare 1 L of solution 0,1 N****Sodium hydroxide 0.1 mol/l (0.1N) > ERBApharm - Prepared from raw material according Ph.Eur****ERBApharm**

Identification (Ph.Eur) ..... Conform Assay (Ph.Eur) ..... 0.095 - 0.105 N Origine (BSE-TSE) ..... Conform Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
524631	1 l	Plastic bottle	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Sodium hydroxide 0.1 mol/l (0.1N) in ethanol**

- Sodio idrossido 0.1 mol/l (N/10) in etanolo • Sodium hydroxyde 0.1 mol/l (0.1N) dans l'éthanol
- Sodio hidróxido 0.1 mol/l (N/10) en etanol • Natronlauge 0.1 mol/l (0.1N) in Ethanol

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group II**Danger**  
H225-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313**Sodium hydroxide 0.1 mol/l (0.1N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613007001	100 ml	Glass bottle	Ref Ph.Eur 3007000
613007000	1 l	Glass bottle	Ref Ph.Eur 3007000

**Sodium hydroxide 0.01 mol/l (0.01N)**

- Sodio idrossido 0.01 mol/l (0.01N) • Sodium hydroxyde 0.01 mol/l (0.01N)
- Sodio hidróxido 0.01 mol/l (0.01N) • Natronlauge 0.01 mol/l (0.01N)

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2

HEU210

**Sodium hydroxide 0.01 mol/l (0.01N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0215/15	1 l	Plastic bottle	

**Sodium hydroxide 0.01 mol/l (0.01N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
481001		Plastic ampoule	Volume: 55 ml

**0,4 g of NaOH. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**

**Sodium hydroxide solution**

• Sodio idrossido soluzione • Sodium hydroxyde solution • Sodio hidróxido solución • Natronlauge

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Sodium hydroxide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611081402	1 l	Plastic bottle	Ref Ph.Eur 1081402
611081404	1 l	Plastic bottle	Sodium hydroxide solution, strong Ref Ph.Eur 1081404

**Sodium hydroxide solution, methanolic**• Sodio idrossido soluzione, metanolica • Sodium hydroxyde solution dans le méthanol  
• Sodio hidróxido solución, metanólico • Natronlauge in MethanolSynonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2**Classification transport**  
ONU: 2810**Sodium hydroxide solution, methanolic > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611081405	100 ml	Glass bottle	Sodium hydroxide solution, methanolic R1 Ref Ph.Eur 1081405

**Sodium hydroxide-d 1 30%**

• Sodio idrossido-d 30% • Sodium hydroxyde-d 30% • Sodio hidróxido-d 30% • Natronlauge-d 30%

Synonym:  
Sodium deuteroxide solutionNaOD  
Molecular Weight: 41  
CAS: 14014-06-3  
EEC-N: 237-825-2**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**  
H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Sodium hydroxide-d 1 30% > RS - For NMR - min 99.5%**

RS

Code	Size	Packaging	Notes
P5675	25 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis****Sodium hydroxide-d 1 mol/l**

• Sodio idrossido-d 1 mol/l • Sodium hydroxyde-d 1N • Sodio hidróxido-d 1 mol/l • Natronlauge-d 1N

Synonym:  
Sodium deuteroxide solutionNaOD  
Molecular Weight: 41  
CAS: 14014-06-3**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Sodium hydroxide-d 1 mol/l > RS - For NMR - min 99.8%**

RS

Code	Size	Packaging	Notes
P5665	25 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**



## Sodium hypochlorite solution 12.5%

• Sodio ipoclorito soluzione 12.5% • Sodium hypochlorite solution 12.5% • Sodio hipoclorito solución 12.5% • Natriumhypochloritlösung 12.5%

NaClO  
Molecular Weight: 74,44  
CAS: 7681-52-9

**Classification transport**  
ONU: 1791  
Transport Hazard class: 8  
Packing group III



**Danger**  
H290-H314-H400-H412-HEU031  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sodium hypochlorite solution 12.5% > RPE - For analysis

RPE

Appearance ..... Slight yellow liquid French chlorometric degree .....  $\geq 44^\circ$  Active chlorine percentage .....  $\geq 11.6\%$  (m/m)

Code	Size	Packaging	Notes
P9350015	1 l	Plastic bottle	
P9350046	1 l	Glass bottle PVC coated	
P9350049	25 l	Plastic tank	

Store at ambient temperature



## Sodium hypochlorite solution in water

• Sodio ipoclorito soluzione in acqua • Sodium hypochlorite solution aqueuse • Sodio hipoclorito solución en agua • Natriumhypochloritlösung

NaClO  
Molecular Weight: 74,44  
CAS: 7681-52-9

**Classification transport**  
ONU: 1791  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314-H412-HEU031  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sodium hypochlorite solution in water > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611081609	250 ml	Glass bottle	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600
611081600	1 l	Glass bottle	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600

### Sodium hypochlorite solution in water > RS - For analysis according to JP

RS

Code	Size	Packaging	Notes
616001008	100 ml	Glass bottle	Sodium hypochlorite TS

### Sodium hypochlorite solution in water > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000181	1 l	Glass bottle	

### Sodium hypochlorite solution in water > RPE - For analysis

RPE

Description ..... Yellow clear liquid Cd .....  $\leq 10$  ppm Hg .....  $\leq 10$  ppm Zn .....  $\leq 10$  ppm  
Density at 20°C ..... ~ 1.1 Cr .....  $\leq 10$  ppm Mn .....  $\leq 10$  ppm Assay (iodometric) ..... 5 ÷ 9 % (Cl)/m/m  
Alcalinity (NaOH) .....  $\leq 1.8\%$  m/m Cu .....  $\leq 10$  ppm Ni .....  $\leq 10$  ppm

Code	Size	Packaging	Notes
481181	1 l	Plastic bottle	
481185	30 kg	Plastic drum	

Store at ambient temperature

### Sodium hypochlorite solution in water > RE - Pure

RE

Description ..... Yellow clear liquid Alcalinity (NaOH) .....  $\leq 1.8\%$  m/m Assay (iodometric) ..... 5 - 9 % Cl Density at 20°C ..... 1.1 - 1.2

Code	Size	Packaging	Notes
370321	1 l	Plastic bottle	
370323	5 l	Plastic bottle	
370322	30 kg	Plastic drum	

Store at ambient temperature

**Sodium hypophosphite**

• Sodio ipofosfito • Sodium hypophosphite • Sodio hipofosfito • Natriumhypophosphit

NaH<sub>2</sub>PO<sub>2</sub>·H<sub>2</sub>O  
 Molecular Weight: 106,06  
 CAS: 10039-56-2  
 EEC-N: 231-669-9

**Sodium hypophosphite > RE - Pure****RE**

Description ..... Semitransparent crystals    Chloride ..... ≤100 ppm    Sulphate ..... ≤500 ppm    Fe ..... ≤50 ppm  
 Identification ..... Positive    Heavy metals (Pb) ..... ≤10 ppm    As ..... ≤2 ppm    Assay (oxidimetric) ..... ≥101 % t.q.

Code	Size	Packaging	Notes
481201	1 kg	Plastic bottle	
481202	5 kg	Plastic tank	

**Sodium iodide**

• Sodio ioduro • Sodium iodure • Sodio yoduro • Natriumiodid

NaI  
 Molecular Weight: 149,89  
 CAS: 7681-82-5  
 EEC-N: 231-679-3

**Danger**

H315-H319-H334-H317-H335  
 P261-P284-P304+P340-P305+P351+P338-  
 P342+P311a-P403+P233

**Sodium iodide > RPE - For analysis****RPE**

Description ..... White crystals    Loss on drying ..... ≤ 2 %    Sulphate ..... ≤ 150 ppm    Assay (oxidimetric) ..... 99 ÷ 101.5 %  
 Identification ..... Positive    Iodate ..... ≤ 4 ppm    Fe ..... ≤ 20 ppm

Code	Size	Packaging	Notes
481163	50 g	Glass bottle	
481164	500 g	Plastic bottle	
481162	25 kg	Plastic bucket	

**Sodium iodide > ERBapharm - According to pharmacopoeia: BP-FU-Ph.Eur.-Ph.Franc.****ERBapharm**

Description ..... White crystalline powder    Appearance of solution ..... Conform Ph.Eur.    Loss on drying ..... ≤ 3.0 %    Fe ..... ≤ 20 ppm  
 Identification ..... Positive    Thiosulphate ..... Conform Ph.Eur.    Heavy metals (Pb) ..... ≤ 10 ppm    Assay (oxidimetric) ..... 99.0 ÷ 100.5 % s.s.  
 Alkalinity ..... Conform Ph.Eur.    Iodate ..... Conform Ph.Eur.    Sulphate ..... ≤ 150 ppm

Code	Size	Packaging	Notes
370305	250 g	Plastic bottle	
370307	1 kg	Plastic bottle	
370309	5 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Sodium laurylsulfate**

• Sodio laurilsolfato • Sodium laurylsulfate • Sodio laurilsulfato • Natriumdodecylsulfat

Synonym:

- Sodium dodecyl sulfate
- Dodecyl sodium sulfate

CH<sub>3</sub>(CH<sub>2</sub>)<sub>11</sub>OSO<sub>3</sub>Na  
 Molecular Weight: 288,38  
 CAS: 151-21-3  
 EEC-N: 273-257-1

**Danger**

H315-H318-H335-H412  
 P261-P304+P340-P310a-P305+P351+P338-  
 P362+P364-P403+P233

**Sodium laurylsulfate > RS - For surfactants detection****RS**

Description ..... White crystalline powder    pH sol. 1% at 20°C ..... 8.5 ÷ 10.5    Assay (acidimetric) ..... ≥ 92.0 %  
 Identification (I.R.) ..... Positive    Free sulphate (Na<sub>2</sub>SO<sub>4</sub>) ..... ≤ 2.5 %

Code	Size	Packaging	Notes
481231	250 g	Plastic bottle	
481233	10 kg	Plastic bucket	
481235	25 kg	Drum	



## Sodium laurylsulfate > RPE - For analysis

**RPE**

Anionic surfactant ..... 93 - 98 %    Loss on drying ..... ≤ 1 %    NaCl ..... ≤ 1.5 %  
 Unsulphated matter ..... ≤ 1 %    Na<sub>2</sub>SO<sub>4</sub> ..... ≤ 3 %    pH (1% solution) ..... 8.5 - 10.5

Code	Size	Packaging	Notes
P7600513	100 g	Plastic bottle	
P7600514	500 g	Plastic bottle	
P7600517	1 kg	Plastic bottle	



## Sodium metabisulfite

• Sodio metabisolfito • Sodium métabisulfite • Sodio metabisulfito • Dinatriumdisulfid

Synonym:

- Sodium bisulfite
- Sodium hydrogensulfite

Na<sub>2</sub>O<sub>3</sub>S<sub>2</sub>  
 Molecular Weight: 190,1  
 CAS: 7681-57-4  
 EEC-N: 231-673-0


**Danger**

H302-H318-HEU031  
 P264-P280i-P301+P312a-P305+P351+P338-P310a-P501a

## Sodium metabisulfite > RPE - For analysis - ACS

**RPE**

Description ..... White crystalline powder    Chloride ..... ≤ 0.05 %    Heavy metals (Pb) ..... ≤ 10 ppm    Fe ..... ≤ 20 ppm  
 Identification ..... Positive    Water-insoluble matter ..... ≤ 50 ppm    Thiosulphate ..... ≤ 0.05 %    Assay (oxidimetric) ..... ≥ 97.0 %

Code	Size	Packaging	Notes
481286	100 g	Plastic bottle	
481287	1 kg	Plastic bottle	
481288	2.5 kg	Plastic bottle	
481283	25 kg	Plastic bucket	

## Sodium metabisulfite > ERBApharm - According to pharmacopoeia: BP-NF-Ph.Eur.-FU

**ERBApharm**

Description ..... White crystalline powder    Chloride ..... ≤ 500 ppm    Fe ..... ≤ 20 ppm    Origin (BSE/TSE) ..... Synthesis  
 Identification ..... Positive    Thiosulphate ..... ≤ 500 ppm    Assay (oxidimetric) ..... 95.0 ÷ 100.5 %  
 Appearance of solution ..... Conform Ph.Eur.    Heavy metals (Pb) ..... ≤ 20 ppm    Assay (SO<sub>2</sub>) ..... 65.0 ÷ 67.4 %  
 pH solution 5% ..... 3.5 ÷ 5.0    As ..... ≤ 5 ppm    Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
370751	1 kg	Plastic bottle	
370752	2.5 kg	Plastic bottle	
370753	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sodium metaperiodate

• Sodio (meta)-periodato • Sodium m-périodate • Sodio metaperiodato • Natriummetaperiodat

Synonym:

*Sodium periodate*

NaIO<sub>4</sub>  
 Molecular Weight: 213,89  
 CAS: 7790-28-5  
 EEC-N: 232-197-6

### Classification transport

ONU: 3085  
 Transport Hazard class: 5.1  
 Packing group I


**Danger**

H271-H314-H372-H400  
 P210-P280-P283-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

## Sodium metaperiodate > RPE - For analysis - ACS

**RPE**

Description ..... White crystalline powder    Other halogens (Cl) ..... ≤ 0.02 %    Assay (iodometric) ..... 99.8 ÷ 100.3 % (s.s.)  
 Identification ..... Positive    Mn ..... ≤ 3 ppm

Code	Size	Packaging	Notes
482234	100 g	Glass bottle	
482236	1 kg	Glass bottle	

**Sodium metaphosphate**

• Sodio metafosfato • Sodium métaphosphate • Sodio metafosfato • Natriummetaphosphat

NaPO<sub>3</sub>

Molecular Weight: 102,2

CAS: 10361-03-2

EEC-N: 233-782-9

**Sodium metaphosphate > RE - Pure****RE**

Description ..... White crystalline powder    Chloride.....≤500 ppm    Sulphate.....≤0.1 %    Assay .....≥68.0 % P205  
 Identification ..... Positive    Heavy metals (Pb).....≤20 ppm    Fe .....≤500 ppm

Code	Size	Packaging	Notes
481557	1 kg	Plastic bottle	
481552	25 kg	Plastic bucket	

**Sodium methoxide 0.1 mol/l**• Sodio metossido 0.1 mol/l • Sodium méthanolate 0.1 mol/l • Sodio metóxido 0.1 mol/l  
• Natriummethanolat 0.1 mol/l

Synonym:

*Sodium methylate*CH<sub>3</sub>NaO

Molecular Weight: 54,02

CAS: 124-41-4

**Classification transport**

ONU: 1992

Transport Hazard class: 3

Packing group II

**Danger**

H225-H301-H370



P210-P241-P280-P301+P310a-P303+P361+P353-P403+P235

**Sodium methoxide 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613007101	100 ml	Glass bottle	Ref Ph.Eur 3007100
613007100	1 l	Glass bottle	Ref Ph.Eur 3007100

**Sodium molybdate dihydrate**

• Sodio molibdato diidrato • Sodium molybdate dihydraté • Sodio molibdato dihidrato • Natriummolybdat

Synonym:

*Molybdic acid sodium salt dihydrate*Na<sub>2</sub>MoO<sub>4</sub>·2H<sub>2</sub>O

Molecular Weight: 241,95

CAS: 10102-40-6

EEC-N: 231-551-7

**Warning**

H315-H319-H335

P261-P271-P304+P340-P305+P351+P338-

P332+P313-P403+P233

**Sodium molybdate dihydrate > RPE - For analysis****RPE**

Description ..... White crystalline powder    Water insoluble substances.....≤ 0.05 %    Assay (Mo).....≥ 39.5 %  
 Identification ..... Positive    Pb.....≤ 50 ppm

Code	Size	Packaging	Notes
481684	100 g	Glass bottle	
481685	250 g	Plastic bottle	
481687	1 kg	Plastic bottle	



## Sodium nitrate

• Sodio nitrato • Sodium nitrate • Sodio nitrato • Natriumnitrat

NaNO<sub>3</sub>  
Molecular Weight: 84,99  
CAS: 7631-99-4  
EEC-N: 231-554-3

**Classification transport**  
ONU: 1498  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272-H319  
P210-P220-P264-P280-P305+P351+P338-  
P337+P313

### Sodium nitrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description ..... White crystals  
Identification ..... Positive  
pH sol. 5% in H<sub>2</sub>O ..... 5.5 ÷ 8.3  
Water-insoluble matter ..... ≤ 50 ppm  
Chloride ..... ≤ 10 ppm  
Phosphate ..... ≤ 5 ppm  
Iodate ..... ≤ 5 ppm  
Nitrite ..... ≤ 10 ppm  
Sulphate ..... ≤ 30 ppm  
Heavy metals (Pb) ..... ≤ 5 ppm  
Fe ..... ≤ 3 ppm  
Assay (acidimetric) ..... ≥ 99.0 %  
Ca ..... ≤ 50 ppm  
Mg ..... ≤ 20 ppm

Code	Size	Packaging	Notes
481755	100 g	Plastic bottle	
481756	500 g	Plastic bottle	
481757	1 kg	Plastic bottle	
481759	5 kg	Plastic jar	
481751	25 kg	Drum	

### Sodium nitrate > RE - Pure

**RE**

Description ..... Yellowish crystals  
Identification ..... Positive  
Chloride ..... ≤ 0.5 %  
Water-insoluble matter ..... ≤ 500 ppm  
Heavy metals (Pb) ..... ≤ 50 ppm  
Sulphate ..... ≤ 0.5 %  
Fe ..... ≤ 50 ppm  
Assay (non-aqueous medium) ..... ≥ 96 %

Code	Size	Packaging	Notes
371809	5 kg	Plastic tank	
371802	25 kg	Plastic bucket	
371804	50 kg	Fibre drum	



## Sodium nitrite

• Sodio nitrito • Sodium nitrite • Sodio nitrito • Natriumnitrit

NaNO<sub>2</sub>  
Molecular Weight: 68,99  
CAS: 7632-00-0  
EEC-N: 231-555-9

**Classification transport**  
ONU: 1500  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272-H301-H400  
P210-P220-P264-P280-P301+P310a-P330

### Sodium nitrite > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... Yellow crystals  
Identification ..... Positive  
Water-insoluble matter ..... ≤ 100 ppm  
Chloride ..... ≤ 50 ppm  
Sulphate ..... ≤ 100 ppm  
Heavy metals (Pb) ..... ≤ 10 ppm  
Ca ..... ≤ 100 ppm  
Fe ..... ≤ 10 ppm  
K ..... ≤ 50 ppm  
Assay (oxidimetric) ..... ≥ 97.0 %

Code	Size	Packaging	Notes
481825	100 g	Plastic bottle	
481826	500 g	Plastic bottle	
481827	1 kg	Plastic bottle	
481829	5 kg	Plastic jar	

### Sodium nitrite > ERBAPharm - According to pharmacopoeia: Ph.Eur.-USP-BP

**ERBAPharm**

Description ..... Yellow crystals  
Identification ..... Positive  
Loss on drying ..... ≤ 0.25 %  
Heavy metals (Pb) ..... ≤ 20 ppm  
Assay (oxidimetric) ..... 97.0 ÷ 101.0 % s.s.  
Assay (Ph. Eur.) ..... 98.5 - 100.5 % (ds)  
Appearance of solution ..... Conform Ph. Eur.  
Acidity or alkalinity ..... Conform Ph.Eur.  
Chloride ..... ≤ 50 ppm  
Sulfate ..... ≤ 200 ppm

Code	Size	Packaging	Notes
371901	1 kg	Plastic bottle	
371902	5 kg	Plastic tank	
371903	25 kg	Plastic bucket	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

**Sodium nitrite > RE - Pure****RE**

Description ..... Yellow crystals      Chloride ..... ≤0.1 %      Sulphate ..... ≤0.1 %      Assay (oxidimetric) ..... ≥95 %  
 Identification ..... Positive      Heavy metals (Pb) ..... ≤50 ppm      Fe ..... ≤50 ppm

Code	Size	Packaging	Notes
372109	5 kg	Plastic tank	

**Sodium nitrite 0.1 mol/l (0.1N)**

• Sodio nitrito 0.1 mol/l (0.1N) • Sodium nitrite 0.1 mol/l (0.1N) • Sodio nitrito 0.1 mol/l (0.1N) • Natriumnitrit 0.1 mol/l (0.1N)

NaNO<sub>2</sub>  
 Molecular Weight: 68,99  
 CAS: 7632-00-0

**Sodium nitrite 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613007200	1 l	Plastic bottle	Ref Ph.Eur 3007200

**Sodium nitrite solution 500 g/l**

• Sodio nitrito 500 g/l soluzione • Sodium nitrite 500g/l • Sodio nitrito solución 500 g/L • Natriumnitrit 500 g/l

NaNO<sub>2</sub>  
 Molecular Weight: 68,99  
 CAS: 7632-00-0

**Classification transport**  
 ONU: 3219  
 Transport Hazard class: 5.1  
 Packing group III



**Danger**  
 H272-H301-H400  
 P210-P220-P264-P280-P301+P310a-P330

**Sodium nitrite solution 500 g/l > RPE - For analysis****RPE**

Assay ..... 490 - 510 g/L

Code	Size	Packaging	Notes
524725	2 l	Plastic bottle	

**Sodium nitroprusside dihydrate**

• Sodio nitroprussiato diidrato • Sodium nitroprussiate dihydraté • Sodio nitroprusiato dihidrato • Natriumnitroprussid-Dihydrat

Na<sub>2</sub>Fe(CN)<sub>5</sub>NO<sub>2</sub>·2H<sub>2</sub>O  
 Molecular Weight: 297,95  
 CAS: 13755-38-9  
 EEC-N: 238-373-9

**Classification transport**  
 ONU: 3288  
 Transport Hazard class: 6.1  
 Packing group III



**Danger**  
 H301  
 P264-P270-P301+P310a-P330-P405-P501a

**Sodium nitroprusside dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... Red brick crystals      Chloride ..... ≤ 200 ppm      Not soluble matter ..... ≤ 0.01 %  
 Identification ..... Positive      Sulphate ..... Conform

Code	Size	Packaging	Notes
481932	50 g	Glass bottle	
481934	100 g	Glass bottle	

Sodium 1-octanesulfonate monohydrate ▶ 1-Octanesulfonic acid sodium salt monohydrate

**Sodium oxalate**

• Sodio ossalato • Sodium oxalate • Sodio oxalato • Natriumoxalat

## Synonym:

- Ethandioic acid sodium salt
- Oxalic acid disodium salt

(COONa)<sub>2</sub>  
 Molecular Weight: 134  
 CAS: 62-76-0  
 EEC-N: 200-550-3

**Warning**

H302-H312  
 P264-P270-P280h-P301+P312a-P330-P501a

**Sodium oxalate > RS - Standard for volumetry****RS**

Description ..... White crystalline powder Identification ..... Positive Assay ..... ≥99.8 %

Code	Size	Packaging	Notes
482101	50 g	Glass bottle	

**Sodium oxalate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... White crystalline powder Loss on drying ..... ≤100 ppm Sulphate ..... ≤20 ppm Assay (oxidimetric) ..... ≥99.5 %  
 Identification ..... Positive Water-insoluble matter ..... ≤50 ppm Heavy metals (Pb) ..... ≤20 ppm  
 Neutrality ..... Conform Ammonium ..... ≤20 ppm Fe ..... ≤10 ppm  
 Ready carbonizable substances ..... Conform Chloride ..... ≤20 ppm K ..... ≤50 ppm

Code	Size	Packaging	Notes
482064	100 g	Plastic bottle	
482065	250 g	Plastic bottle	
482067	1 kg	Plastic bottle	

**Sodium oxalate > RE - Pure****RE**

Description ..... White crystalline powder Chloride ..... ≤ 300 ppm Fe ..... ≤ 100 ppm  
 Identification ..... Positive Sulphate ..... ≤ 100 ppm Assay (oxidimetric) ..... 94 ÷ 96 %

Code	Size	Packaging	Notes
372201	1 kg	Plastic bottle	
372203	5 kg	Plastic tank	

**Sodium 1-pentanesulfonate ► 1-Pentanesulphonic acid sodium salt****Sodium 1-pentanesulfonate monohydrate ► 1-Pentanesulphonic acid sodium salt monohydrate****Sodium perborate tetrahydrate**

• Sodio perborato tetraidrato • Sodium perborate tétrahydraté • Sodio perborato tetrahidratado • Natriumperborat-Tetrahydrat

NaBO<sub>3</sub>·4H<sub>2</sub>O  
 Molecular Weight: 153,88  
 CAS: 10486-00-7  
 EEC-N: 231-556-4

**Danger**

H302-H332-H318-H360Df-H335-HA26  
 P261-P280-P304+P340-P310a-P305+P351+P338-  
 P403+P233

**Sodium perborate tetrahydrate > RE - Pure****RE**

Description ..... White crystalline powder Chloride ..... ≤500 ppm Sulphate ..... ≤0.1 % Fe ..... ≤500 ppm  
 Identification ..... Positive Heavy metals (Pb) ..... ≤100 ppm As ..... ≤20 ppm Assay (oxidimetric) ..... ≥96 %

Code	Size	Packaging	Notes
482183	1 kg	Plastic bottle	
482185	5 kg	Plastic tank	
482187	25 kg	Plastic bucket	

**Sodium perchlorate monohydrate**

• Sodio perclorato monoidrato • Sodium perchlorate monohydraté • Sodio perclorato  
• Natriumperchlorat-Monohydrat

Synonym:  
*Hyperchloric acid sodium salt*

NaClO<sub>4</sub>·H<sub>2</sub>O  
Molecular Weight: 140,46  
CAS: 7791-07-3  
EEC-N: 231-511-9

**Classification transport**  
ONU: 1502  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H302  
P210-P220-P264-P280-P301+P312a-P501a

**Sodium perchlorate monohydrate > RPE - For analysis****RPE**

Description ..... White crystal    Chloride ..... ≤ 50 ppm    Heavy metals (Pb) ..... ≤ 10 ppm    Fe ..... ≤ 50 ppm  
Identification (I.R.) ..... Positive    Chlorates ..... ≤ 0.10 %    Sulfate ..... ≤ 50 ppm    Assay ..... ≥ 99.0 %

Code	Size	Packaging	Notes
482204	250 g	Glass bottle	

**Sodium peroxide**

• Sodio perossido • Sodium peroxyde • Sodio peróxido • Natriumperoxid

Synonym:  
*Sodium superoxide*

Na<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 77,98  
CAS: 1313-60-6  
EEC-N: 215-209-4

**Classification transport**  
ONU: 1504  
Transport Hazard class: 5.1  
Packing group I



**Danger**  
H271-H314  
P210-P280-P283-P301+P330+P331-  
P303+P361+P353-P304+P340-P310a-  
P305+P351+P338

**Sodium peroxide > RPE - For analysis****RPE**

Description ..... Pale yellow powder    Chloride ..... ≤ 40 ppm    Ca ..... ≤ 500 ppm    Pb ..... ≤ 20 ppm  
Identification ..... Positive    Phosphate ..... ≤ 20 ppm    Fe ..... ≤ 20 ppm    Assay (oxidimetric) ..... ≥ 97 %  
Total nitrogen ..... ≤ 20 ppm    Total sulphur ..... ≤ 200 ppm    K ..... ≤ 200 ppm

Code	Size	Packaging	Notes
482252	1 kg	Metallic can	

**Sodium persulfate**

• Sodio persolfato • Sodium persulfate • Sodio persulfato • Natriumpersulfat

Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub>  
Molecular Weight: 238,1  
CAS: 7775-27-1  
EEC-N: 231-892-1

**Classification transport**  
ONU: 1505  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272-H302-H315-H334-H317-H335  
P210-P280-P284-P304+P340-P342+P311a-  
P403+P233

**Sodium persulfate > RPE - For analysis****RPE**

Assay ..... ≥ 99 %    Iron (Fe) ..... ≤ 5 mg/Kg    Active oxygen ..... ≥ 6.65 %    Sulfuric acid ..... ≤ 0.1 %

Code	Size	Packaging	Notes
P1650517	1 kg	Plastic bottle	

**Sodium persulfate > RE - Pure****RE**

Description ..... White crystalline powder    Identification ..... Positive    Fe ..... ≤ 10 ppm    Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
482365	250 g	Plastic bottle	
482367	2.5 kg	Plastic bottle	
482363	25 kg	Plastic bucket	





## Sodium persulfate 1 mol/l

• Sodio persolfato 1 mol/l • Sodium persulfate 1 mol/l • Sodio persolfato 1 mol/l • Natriumpersulfat 1 mol/l



Molecular Weight: 238.10

CAS: 7775-27-1

### Classification transport

ONU: 3216

Transport Hazard class: 5.1

Packing group III



### Danger

H272-H315-H334-H317

P210-P261-P280-P284-P304+P340-P342+P311a

### Sodium persulfate 1 mol/l > RPE - For analysis

RPE

Refractive index at 20°C..... 1.35 - 1.354

Code	Size	Packaging	Notes
PS0083/42	20 l	Plastic tank	



## Sodium phosphate dibasic anhydrous

• Sodio fosfato bibasico anidro • Sodium phosphate dibasique anhydre • Sodio fosfato dibásico anhidro • Natriumhydrogenphosphat wasserfrei

Synonym:

Disodium hydrogen phosphate



Molecular Weight: 141,96

CAS: 7558-79-4

EEC-N: 231-448-7

### Sodium phosphate dibasic anhydrous > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White powder      Loss on drying ..... ≤ 0.2 %      Heavy metals (Pb)..... ≤ 10 ppm      Assay (alkalimetric)..... ≥ 99.0 %  
 Identification ..... Positive      Chloride..... ≤ 20 ppm      Sulphate ..... ≤ 50 ppm  
 pH sol. 5% at 25° C ..... 8.7 ÷ 9.3      Water-insoluble matter ..... ≤ 100 ppm      Fe ..... ≤ 20 ppm

Code	Size	Packaging	Notes
480143	100 g	Plastic bottle	
480144	500 g	Plastic bottle	
480141	1 kg	Plastic bottle	
480142	5 kg	Plastic jar	

### Sodium phosphate dibasic anhydrous > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP

ERBApharm

Description ..... White powder      Fosfato monobasico ..... Conform Ph.Eur.      Chloride..... ≤ 200 ppm      Heavy metals (Pb)..... ≤ 10 ppm  
 Identification ..... Positive      Origin (BSE/TSE)..... Synthesis      Sulphate ..... ≤ 500 ppm      Loss on drying at 105°C..... ≤ 1.0 %  
 Appearance of solution ..... Conform Ph.Eur.      Residual solvents (Current ICH)..... Conform      As ..... ≤ 2 ppm      Assay (potentiometric) 98.0 ÷ 100.5 % s.s.  
 Reducing substances ..... Conform Ph.Eur.      Not soluble matter ..... ≤ 0.4 %      Fe ..... ≤ 20 ppm      Loss on drying at 130°C..... ≤ 5.0 %

Code	Size	Packaging	Notes
369212	1 kg	Plastic bottle	
369213	5 kg	Plastic bucket	
369211	25 kg	Sack	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

### Sodium phosphate dibasic anhydrous > ERBApharm - According to pharmacopoeia: USP

ERBApharm

Description ..... White crystalline powder      Loss on drying 130° C..... ≤5.0 %      Not soluble matter..... ≤0.4 %      Heavy metals (Pb)..... ≤20 ppm  
 Identification ..... Positive      Water-insoluble matter ..... ≤0.4 %      Sulphate ..... ≤0.2 %      Assay ..... 98.0 ÷ 100.5 % (s.s.)  
 Loss on drying ..... ≤ 5.0 %      Chloride..... ≤0.06 %      As ..... ≤16 ppm      Assay (potentiometric) 98.0 ÷ 100.5 % (s.s.)

Code	Size	Packaging	Notes
369275	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Sodium phosphate dibasic anhydrous > RE - Pure****RE**

Description ..... White powder      Loss on drying ..... ≤ 8 %      As ..... ≤ 10 ppm  
 Identification ..... Positive      Heavy metals (Pb) ..... ≤ 50 ppm      Assay (acidimetric) ..... ≥ 92.0 %

Code	Size	Packaging	Notes
369257	1 kg	Plastic bottle	
369258	5 kg	Plastic tank	
369252	25 kg	Plastic bucket	

**Sodium phosphate dibasic dihydrate**

• Sodio fosfato bibásico dihidrato • Sodium phosphate dibasique dihydraté • Sodio fosfato dibásico dihidrato  
 • Natriumhydrogenphosphat Dihydrat

Synonym:

*Disodium hydrogen phosphate dihydrate*

$\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$   
 Molecular Weight: 177,99  
 CAS: 10028-24-7  
 EEC-N: 231-448-7

**Sodium phosphate dibasic dihydrate > RPE - For analysis****RPE**

Description ..... White crystalline powder      Water-insoluble matter ..... ≤ 50 ppm      Pb ..... ≤ 1 ppm      Ammonium ..... ≤ 10 ppm  
 Identification ..... Positive      Heavy metals (Pb) ..... ≤ 10 ppm      Assay (potentiometric) ..... 98.0 ÷ 100.5 %      Reducing substances ..... Conform  
 Loss on drying ..... 18.5 ÷ 21.5 %      Sulphate ..... ≤ 50 ppm      Loss on ignition ..... 25.1 ÷ 25.5 %      Sodium dihydrogen phosphate ..... ≤ 2.5 %  
 Chloride ..... ≤ 10 ppm      As ..... ≤ 1 ppm      pH solution 1% ..... 9.0 ÷ 9.3  
 Fluoride ..... ≤ 3 ppm      Fe ..... ≤ 5 ppm      Hg ..... ≤ 1 ppm

Code	Size	Packaging	Notes
480225	100 g	Plastic bottle	
480226	500 g	Plastic bottle	
480227	1 kg	Plastic bottle	
480222	5 kg	Plastic jar	

**Sodium phosphate dibasic dihydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP****ERBApharm**

Description ..... White crystalline powder      Fosfato monosodico ..... ≤ 2.5 %      Heavy metals (Pb) ..... ≤ 20 ppm      Titolo ( alcalimetrico ) ..... 98.0 ÷ 100.5 % s.s.  
 Identification ..... Positive      Water not sol. matter ..... ≤ 0.4 %      As ..... ≤ 4 ppm  
 Appearance of solution ..... Conform Ph.Eur.      Chloride ..... ≤ 400 ppm      Fe ..... ≤ 40 ppm  
 Reducing substances ..... Conform Ph.Eur.      Sulphate ..... ≤ 0.1 %      Loss on drying 130° C ..... 19.5 ÷ 21.0 %

Code	Size	Packaging	Notes
369185	5 kg	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sodium phosphate dibasic dodecahydrate

- Sodio fosfato bibasico dodecaidrato • Sodium phosphate dibasique dodécahydraté
- Sodio fosfato dibasico dodecahidrato • Dibasisches Natriumphosphat-Dodecahydrat

Synonym:

Disodium hydrogen phosphate dodecahydrate

Na<sub>2</sub>HPO<sub>4</sub>·12H<sub>2</sub>O  
 Molecular Weight: 358,14  
 CAS: 10039-32-4  
 EEC-N: 231-448-7

### Sodium phosphate dibasic dodecahydrate > RPE - For analysis

RPE

Description .. White or gray crystalline mass	Heavy metals (Pb).....≤ 5 ppm	Fe .....≤ 5 ppm	Assay (potentiometric) .....98 ÷ 102 %
Identification ..... Positive	Sulphate .....≤ 50 ppm	K.....≤ 100 ppm	Mono or Tribasic salt ..... Conform
pH sol. 5% at 25° C .....9.0 ÷ 9.4	As .....≤ 0.5 ppm	Mg .....≤ 10 ppm	Co.....≤ 5 ppm
Total nitrogen .....≤ 10 ppm	Ca.....≤ 10 ppm	Ni.....≤ 5 ppm	Cr.....≤ 5 ppm
Chloride.....≤ 5 ppm	Cd.....≤ 5 ppm	Pb.....≤ 5 ppm	Mn.....≤ 5 ppm
Water-insoluble matter .....≤ 50 ppm	Cu.....≤ 5 ppm	Zn .....≤ 5 ppm	

Code	Size	Packaging	Notes
480133	100 g	Plastic bottle	
480136	500 g	Plastic bottle	
480137	1 kg	Plastic bottle	
480131	5 kg	Plastic tank	
480132	10 kg	Plastic bucket	
480135	25 kg	Plastic bucket	

### Sodium phosphate dibasic dodecahydrate > ERBApharm - According to pharmacopoeia: BP-DAB-FU-Ph. Eur.-Ph.Franc.-USP

ERBApharm

Description ..... White crystals	Monobasic phosphate.....Conform Ph.Eur.	As .....≤2 ppm	Loss on drying 130° C.....57.0 ÷ 61.0 %
Identification ..... Positive	Chloride.....≤200 ppm	Fe .....≤20 ppm	
Appearance of solution .....Conform Ph.Eur.	Heavy metals (Pb).....≤10 ppm	Assay (alkalimetric).....98.5 ÷ 100.5 % s.s.	
Reducing substances .....Conform Ph.Eur.	Sulphate .....≤500 ppm	Not soluble matter.....≤ 0.4 %	

Code	Size	Packaging	Notes
369158	1 kg	Plastic bottle	
369159	5 kg	Plastic tank	
369152	25 kg	Plastic bucket	
369154	50 Kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

### Sodium phosphate dibasic dodecahydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.

ERBApharm

Description ..... White crystals	Monobasic phosphate.....Conform Ph.Eur.	As .....≤2 ppm	Loss on drying 130° C.....57.0 ÷ 61.0 %
Identification ..... Positive	Chloride.....≤200 ppm	Fe .....≤20 ppm	
Appearance of solution .....Conform Ph.Eur.	Heavy metals (Pb).....≤10 ppm	Assay (alkalimetric).....98.5 ÷ 100.5 % s.s.	
Reducing substances .....Conform Ph.Eur.	Sulphate .....≤500 ppm	Not soluble matter.....≤ 0.4 %	

Code	Size	Packaging	Notes
529510	1 kg	Plastic bottle	

**Sodium phosphate monobasic dihydrate**

- Sodio fosfato monobásico bihidrato • Sodium phosphate monobasique dihydraté
- Sodio fosfato monobásico dihidrato • Natriumphosphat-einbasiges Dihydrat

Synonym:

*Sodium dihydrogen phosphate dihydrate*

NaH<sub>2</sub>PO<sub>4</sub>·2H<sub>2</sub>O  
Molecular Weight: 156,01  
CAS: 13472-35-0  
EEC-N: 231-449-1

**Sodium phosphate monobasic dihydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP****ERBApharm**

Description .....	White crystalline powder	Al,Ca and related sub. ....	Conform USP-NF	Chloride.....	≤140 ppm	As .....	≤2 ppm
Identification .....	Positive	pH solution 5% .....	4.2 ÷ 4.5	Heavy metals (Pb).....	≤10 ppm	Fe .....	≤10 ppm
Appearance of solution .....	Conform Ph.Eur.	Water (K.F.) .....	18.0 ÷ 26.5 %	Sulphate .....	≤300 ppm	Assay (alkalimetric).....	98.0 ÷ 100.5 % s.s.
Reducing substances .....	Conform Ph.Eur.	Loss on drying 130° C.....	21.5 ÷ 24.0 %	Not soluble matter .....	≤0.2 %		

Code	Size	Packaging	Notes
369138	1 kg	Plastic bottle	
369139	5 kg	Plastic tank	
369132	25 kg	Plastic bucket	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade***Sodium phosphate monobasic monohydrate**

- Sodio fosfato monobásico monohidrato • Sodium phosphate monobasique monohydraté
- Sodio fosfato monobásico monohidrato • Natriumphosphat monobasisch Monohydrat

Synonym:

- *Monosodium phosphate*
- *Sodium dihydrogen phosphate monohydrate*

NaH<sub>2</sub>PO<sub>4</sub>·H<sub>2</sub>O  
Molecular Weight: 137,99  
CAS: 10049-21-5  
EEC-N: 231-449-2

**Sodium phosphate monobasic monohydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	White crystalline powder	Water-insoluble matter .....	≤ 100 ppm	Sulphate.....	≤ 30 ppm	K.....	≤ 100 ppm
Identification .....	Positive	Chloride.....	≤ 5 ppm	Ca.....	≤ 50 ppm	Assay .....	98.0 ÷ 102.0 %
pH sol. 5% in H <sub>2</sub> O.....	4.1 ÷ 4.5	Heavy metals (Pb).....	≤ 10 ppm	Fe .....	≤ 10 ppm		

Code	Size	Packaging	Notes
480085	100 g	Plastic bottle	
480086	500 g	Plastic bottle	
480087	1 kg	Plastic bottle	
480082	5 kg	Plastic jar	
480081	25 kg	Plastic bucket	

**Sodium phosphate monobasic monohydrate > ERBApharm - According to pharmacopoeia: USP****ERBApharm**

Description .....	White crystalline powder	Water (K.F.) .....	10.0 ÷ 15.0 %	As .....	≤8 ppm	Heavy metals (Pb).....	≤ 20 ppm
Identification .....	Positive	Chloride.....	≤140 ppm	Assay (alkalimetric).....	98.0 ÷ 103.0 % s.s.		
Al,Ca and related sub. ....	Conform USP-NF	Sulphate.....	≤0.15 %	Origin (BSE/TSE).....	Synthesis		
pH (1:20).....	4.1 ÷ 4.5	Not soluble matter .....	≤0.2 %	Residual solvents (Current ICH).....	Conform		

Code	Size	Packaging	Notes
369143	1 kg	Plastic bottle	
369141	5 kg	Plastic tank	
369142	25 kg	Sack	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*



## Sodium phosphate tribasic dodecahydrate

- Sodio fosfato tribasico dodecaidrato • Sodium phosphate tribasique dodécahydraté
- Sodio fosfato tribásico dodecahidratado • Natriumphosphat tribasisch Dodecahydrat

Synonym:

- Trisodium phosphate dodecahydrate
- TSP

Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O  
Molecular Weight: 380,12  
CAS: 10101-89-0  
EEC-N: 231-509-8



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Sodium phosphate tribasic dodecahydrate > RS - Nuclear

RS

Code	Size	Packaging	Notes
526001	25 kg	Drum	

**For specifications, contact our customer service for a certificate of analysis**

### Sodium phosphate tribasic dodecahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description	White crystals	Water-insoluble matter	≤ 100 ppm	Heavy metals (Pb)	≤ 10 ppm
Identification	Positive	Chloride	≤ 10 ppm	Fe	≤ 10 ppm
Free alkalis (NaOH)	≤ 2.5 %	Sulphate	≤ 100 ppm	Assay (alkalimetric)	98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
480275	100 g	Plastic bottle	
480276	500 g	Plastic bottle	
480277	1 kg	Plastic bottle	
480272	5 kg	Plastic tank	
480271	25 kg	Fibre drum	

### Sodium phosphate tribasic dodecahydrate > RE - Pure

RE

Description	White powder	pH sol. 1%	11.8 ÷ 12.5	Assay (alkalimetric)	≥ 95.0 %
Identification	Positive	Water-insoluble matter	≤ 0.2 %		

Code	Size	Packaging	Notes
369309	5 kg	Plastic tank	
369301	25 kg	Plastic bucket	



## Sodium o-Phosphite pentahydrate

- Sodio o-fosfito pentaidrato • Sodium o-Phosphite pentahydraté • Sodio o-Fosfito pentahidrat
- Natrium-o-phosphitpentahydrat

Synonym:

- Sodium phosphite dibasic pentahydrate
- di-Sodium hydrogen phosphite

Na<sub>2</sub>HPO<sub>3</sub>·5H<sub>2</sub>O  
Molecular Weight: 216  
CAS: 13517-23-2

### Sodium o-Phosphite pentahydrate > RPE - For analysis

RPE

Description	Colorless transparent granule crystal, weak odor	Water	38.0 ÷ 45.0 %	Assay (oxidimetric)	97.0 ÷ 102.0 %
Identification	Positive	Heavy metals (Pb)	≤ 25 ppm		

Code	Size	Packaging	Notes
482042	25 kg	Plastic bucket	
482041	50 kg	Fibre drum	

**Sodium pyrophosphate decahydrate**

• Sodio pirofosfato decaidrato • Sodium pyrophosphate décahydraté • Sodio pirofosfato decahidrato  
• Natriumpyrophosphatdecahydrat

Synonym:

*Sodium pyrophosphate tetrabasic decahydrate*

$\text{Na}_4\text{P}_2\text{O}_7 \cdot 10\text{H}_2\text{O}$   
Molecular Weight: 446,06  
CAS: 13472-36-1  
EEC-N: 231-767-1

**Warning**

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Sodium pyrophosphate decahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... White crystals      Total nitrogen ..... ≤10 ppm      Heavy metals (Pb) ..... ≤10 ppm      Assay (acidimetric) ..... 99.0 ÷ 103.0 %  
Identification ..... Positive      Chloride ..... ≤20 ppm      Sulphate ..... ≤50 ppm  
pH sol. 5% at 25° C ..... 9.5 ÷ 10.5      Water-insoluble matter ..... ≤100 ppm      Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
482426	100 g	Plastic bottle	
482427	1 kg	Plastic bottle	
482422	10 kg	Box	
482421	25 kg	Drum	

**Sodium salicylate**

• Sodio salicilato • Sodium salicylate • Sodio salicilato • Natriumsalicylat

Synonym:

• *Salicylic acid sodium salt*  
• *Sodium-2-hydroxybenzoate*

$\text{HO}_2\text{C}_6\text{H}_4\text{COONa}$   
Molecular Weight: 160,11  
CAS: 54-21-7  
EEC-N: 200-198-0

**Warning**

H302  
P264-P270-P301+P312a-P330-P501a

**Sodium salicylate > ERBapharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB****ERBapharm**

Description ..... White crystalline powder      Sulphite+thiosul. (SO<sub>2</sub>).... Conform USP-NF      Heavy metals (Pb) ..... ≤ 20 ppm      Water (K.F.) ..... ≤ 0.5 %  
Identification ..... Positive      Organic volatile impurities Conform USP-NF      Sulphate ..... ≤ 0.06 %  
Appearance of solution ..... Conform Ph.Eur.      Loss on drying ..... ≤ 0.5 %      Assay (non-aqueous medium) .99.0 ÷ 100.5  
Acidity ..... Conform Ph.Eur.      Chloride ..... ≤ 0.02 %      % s.s.

Code	Size	Packaging	Notes
373607	1 kg	Plastic bottle	
373608	5 kg	Plastic tank	
373603	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Sodium silicate**

• Sodio silicato • Sodium silicate • Sodio silicato • Natriumsalicylat

Synonym:

*Water glass*

$\text{Na}_2\text{O} \cdot x\text{SiO}_2$   
Molecular Weight: 182,13 (an.)  
CAS: 1344-09-8  
EEC-N: 215-687-4

**Danger**

H315-H318-H335  
P261-P304+P340-P310a-P305+P351+P338-  
P362+P364-P403+P233

**Sodium silicate > RE - Pure****RE**

Description ..... White powder      Identification ..... Positive      Loss on drying ..... ~ 16 %      Assay(Na<sub>2</sub>O 2SiO<sub>2</sub> anydr) ..... ≥72 %

Code	Size	Packaging	Notes
373908	2.5 kg	Plastic bucket	
373909	5 kg	Plastic bucket	
373902	25 kg	Fibre drum	





## Sodium succinate hexahydrate

- Sodio succinato esaidrato • Sodium succinate hexahydraté • Sodio succinato hexahidratado
- Natriumsuccinat-Hexahydrat

Synonym:

- *Butanedioic acid disodium salt*
- *Succinic acid disodium salt*

(CH<sub>2</sub>COONa)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 270,15  
CAS: 6106-21-4  
EEC-N: 205-778-7

### Sodium succinate hexahydrate > RPE - For analysis

RPE

Description .....	White crystalline powder	Phosphate .....	≤20 ppm	Ca .....	≤50 ppm	Pb .....	≤2 ppm
Identification .....	Positive	Water-insoluble matter .....	≤50 ppm	Cu .....	≤2 ppm	Zn .....	≤2 ppm
pH sol. 5% at 25° C .....	8.4 ÷ 9.2	Heavy metals (Pb) .....	≤5 ppm	Fe .....	≤5 ppm	Assay (non-aqueous medium) .....	≥99 %
Ammonium .....	≤10 ppm	Sulphate .....	≤50 ppm	K .....	≤50 ppm		
Chloride .....	≤10 ppm	As .....	≤1 ppm	Ni .....	≤2 ppm		

Code	Size	Packaging	Notes
483554	100 g	Plastic bottle	
483555	250 g	Plastic bottle	
483557	2.5 kg	Plastic bottle	
483551	25 kg	Fibre drum	



## Sodium sulfate anhydrous

- Sodio solfato anidro • Sodium sulfate anhydre • Sodio solfato anhidro • Natriumsulfat wasserfrei

Na<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 142,04  
CAS: 7757-82-6  
EEC-N: 231-820-9

### Sodium sulfate anhydrous > RS - For anhydriification

RS

Description .....	Crystals or white crystalline powder	Identification .....	Positive	pH (10% solution) .....	6 - 10	Fe .....	≤5 ppm
		Loss on drying 130°C .....	≤ 1 %	NaCl .....	≤ 0.25 %	Assay (acidimetric) .....	≥ 99 %

Code	Size	Packaging	Notes
P1320017	1 kg	Plastic bottle	
P1320027	5 kg	Plastic tank	
P1320044	25 kg	Plastic bucket	

### Sodium sulfate anhydrous > RS - For residual pesticides analysis

RS

Description .....	Crystals or white crystalline powder	Loss on ignition .....	≤0.5 %	Chloride .....	≤10 ppm	As .....	≤1 ppm
Identification .....	Positive	Total nitrogen .....	≤5 ppm	Water-insoluble matter .....	≤50 ppm	Fe .....	≤10 ppm
pH sol. 5% in H <sub>2</sub> O .....	5.2 ÷ 9.2	Calcium + Magnesium .....	≤ 150 ppm	Heavy metals (Pb) .....	≤5 ppm	Assay (acidimetric) .....	≥99.0 %

Code	Size	Packaging	Notes
483025	500 g	Glass bottle	

### Sodium sulfate anhydrous > RPE - Crystalline powder - For analysis - ACS - ISO

RPE

Description .....	Crystals or white crystalline powder	Loss on ignition .....	≤0.5 %	Phosphate .....	≤10 ppm	K .....	≤100 ppm
Identification .....	Positive	Water-insoluble matter .....	≤100 ppm	Heavy metals (Pb) .....	≤5 ppm	Mg .....	≤50 ppm
pH sol. 5% in H <sub>2</sub> O .....	5.2 ÷ 9.2	Total nitrogen .....	≤5 ppm	Ca .....	≤100 ppm	Assay (acidimetric) .....	≥99.0 %
		Chloride .....	≤10 ppm	Fe .....	≤10 ppm		

Code	Size	Packaging	Notes
483006	100 g	Plastic bottle	
483005	500 g	Plastic bottle	
483007	1 kg	Plastic bottle	
483009	5 kg	Plastic jar	
483001	25 kg	Plastic bucket	

**Sodium sulfate anhydrous > ERBApharm - According to pharmacopoeia: Ph.Eur.****ERBApharm**

Description .....	White powder	Chloride .....	≤ 450 ppm	Mg .....	≤ 200 ppm	Residual solvents (Current ICH).....	Conform
Identification .....	Positive	Heavy metals (Pb).....	≤ 45 ppm	Loss on drying 130°C.....	≤ 0,5 %		
Appearance of solution .....	Conform Ph. Eur.	Ca .....	≤ 450 ppm	Assay .....	98.5 ÷ 101.0 %		
Acidity or alkalinity.....	Conform Ph.Eur.	Fe .....	≤ 90 ppm	Origin (BSE/TSE).....	Synthesis		

Code	Size	Packaging	Notes
375713	1 kg	Plastic bottle	
375716	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Sodium sulfate decahydrate**

- Sodio solfato decaidrato • Sodium sulfate décahydraté • Sodio solfato decahidrato
- Natriumsulfat-Decahydrat

Synonym:  
Glauber's salt

Na<sub>2</sub>SO<sub>4</sub>·10H<sub>2</sub>O  
Molecular Weight: 322,19  
CAS: 7727-73-3  
EEC-N: 231-820-9

**Sodium sulfate decahydrate > RPE - For analysis - ACS****RPE**

Description .....	White crystals	Chloride .....	≤ 5 ppm	Ca .....	≤ 50 ppm	Assay (acidimetric) .....	≥ 99 %
Identification .....	Positive	Phosphate .....	≤ 5 ppm	Fe .....	≤ 5 ppm		
pH solution 5% .....	5.2 ÷ 9.2	Water-insoluble matter .....	≤ 100 ppm	K .....	≤ 50 ppm		
Total nitrogen .....	≤ 3 ppm	Heavy metals (Pb).....	≤ 3 ppm	Mg .....	≤ 30 ppm		

Code	Size	Packaging	Notes
482957	1 kg	Plastic bottle	
482959	5 kg	Plastic tank	

**Sodium sulfide nonahydrate**

- Sodio solfuro nonaidrato • Sodium sulfure nonahydraté • Sodio solfuro nonahidrato • Natriumsulfid-Nonahydrat

Na<sub>2</sub>S·9H<sub>2</sub>O  
Molecular Weight: 240,18  
CAS: 1313-84-4  
EEC-N: 215-211-5

**Classification transport**

ONU: 1849  
Transport Hazard class: 8  
Packing group II

**Danger**

H302-H311-H314-H400  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P361+P364

**Sodium sulfide nonahydrate > RPE - For analysis - ACS****RPE**

Description .....	Crystals or Chunks	Ammonium .....	≤ 50 ppm	Sulphite and thiosulphate (S04) .....	≤ 0.1 %
Identification .....	Positive	Fe .....	Conform	Assay (oxidimetric) .....	≥ 98.0 %

Code	Size	Packaging	Notes
483484	100 g	Plastic bottle	
483485	250 g	Plastic bottle	
483487	1 kg	Plastic bottle	
483489	5 kg	Plastic tank	

**Sodium sulfide nonahydrate solution**

- Sodio solfuro nonaidrato soluzione • Sodium sulfure nonahydraté solution • Sodio solfuro nonahidrato solución • Natriumsulfid-Nonahydrat-Lösung

Na<sub>2</sub>S·9H<sub>2</sub>O  
Molecular Weight: 240,18  
CAS: 1313-84-4

**Classification transport**

ONU: 2922  
Transport Hazard class: 8  
Packing group III

**Danger**

H302-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Sodium sulfide nonahydrate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611083901	100 ml	Plastic bottle	Ref Ph.Eur 1083901
611083902	100 ml	Plastic bottle	Sodium sulfide solution R1 Ref Ph.Eur 1083902



## Sodium sulfide trihydrate

• Sodio solfuro triidrato • Sodium sulfure trihydraté • Sodio sulfuro trihidrato • Natriumsulfid-Trihydrat

Na<sub>2</sub>S·3H<sub>2</sub>O

Molecular Weight: 132

CAS: 42607-30-7

EEC-N: 215-211-5

### Classification transport

ONU: 1849

Transport Hazard class: 8

Packing group II



### Danger

H301-H314-HEU031

P280-P301+P310a-P301+P330+P331-

P303+P361+P353-P304+P340-P305+P351+P338

### Sodium sulfide trihydrate > RE - Pure

RE

Description ..... Scaglie gialle Identification ..... Positive Assay (oxidimetric) ..... ≥97 %

Code	Size	Packaging	Notes
376403	25 kg	Fibre drum	



## Sodium sulfite anhydrous

• Sodio solfito anidro • Sodium sulfite anhydre • Sodio solfito anhidro • Natriumsulfit wasserfrei

Na<sub>2</sub>SO<sub>3</sub>

Molecular Weight: 126,04

CAS: 7757-83-7

EEC-N: 231-821-4

HEU031

### Sodium sulfite anhydrous > RPE - For analysis - ACS

RPE

Description ..... White powder Free alkalinity ..... ≤0.03 meq/g Heavy metals (Pb) ..... ≤10 ppm  
 Identification ..... Positive Chloride ..... ≤200 ppm Fe ..... ≤10 ppm  
 Acidity ..... Conform Water-insoluble matter ..... ≤50 ppm Assay (oxidimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
483256	100 g	Plastic bottle	
483257	1 kg	Plastic bottle	
483258	2.5 kg	Plastic bottle	
483252	25 kg	Plastic bucket	

### Sodium sulfite anhydrous > ERBApharm - According to pharmacopeia: BP-Ph.Eur.

ERBApharm

Description ..... White powder Heavy metals (Pb) ..... ≤10 ppm Se ..... ≤10 ppm  
 Identification ..... Positive Thiosulphate ..... ≤0.1 % Zn ..... ≤25 ppm  
 Appearance of solution ..... Conform Ph.Eur. Fe ..... ≤10 ppm Assay (oxidimetric) ..... 95.0 ÷ 100.5 %

Code	Size	Packaging	Notes
376006	1 kg	Plastic bottle	
376008	2.5 kg	Plastic bottle	
376009	5 kg	Plastic tank	
376002	10 kg	Plastic tank	
376003	25 kg	Plastic bucket	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

**Sodium sulfocyanate**

• Sodio solfocianuro • Sodium sulfocyanure • Sodio solfocianuro • Natriumsulfocyanid

Synonym:

- Sodium thiocyanate
- Sodium rhodanate

NaSCN  
Molecular Weight: 81,07  
CAS: 540-72-7  
EEC-N: 208-754-4

**Warning**

H302-HEU032  
P264-P270-P301+P312a-P330-P501a

**Sodium sulfocyanate > RPE - For analysis - ACS****RPE**

Description ..... White crystals  
Identification ..... Positive  
Ammonium ..... ≤20 ppm  
Carbonate ..... ≤0.2 %  
Chloride ..... ≤100 ppm  
Water-insoluble matter ..... ≤50 ppm  
Heavy metals (Pb) ..... ≤5 ppm  
Sulphate ..... ≤100 ppm  
Sulphide ..... ≤10 ppm  
Fe ..... ≤2 ppm  
Assay (argentimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
483354	100 g	Plastic bottle	
483356	500 g	Plastic bottle	

**Sodium tartrate dihydrate**

• Sodio tartrato diidrato • Sodium tartrate dihydraté • Sodio tartrato diidrato • Natriumtartratdihydrat

Synonym:

- L-(+)-tartaric acid disodium salt
- Disodium tartrate dihydrate

(CHOHCOONa)<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 230,08  
CAS: 6106-24-7  
EEC-N: 212-773-3

**Sodium tartrate dihydrate > RS - For Karl Fischer's reagent standardization - ACS****RS**

Description ..... White crystalline powder  
Identification ..... Positive  
pH sol. 5% at 25° C ..... 7.0 ÷ 9.0  
Loss on drying 150° C ..... 15.61 ÷ 15.71 %  
Ammonium ..... ≤30 ppm  
Chloride ..... ≤5 ppm  
Phosphate ..... ≤5 ppm  
Water-insoluble matter ..... ≤50 ppm  
Heavy metals (Pb) ..... ≤5 ppm  
Sulphate ..... ≤50 ppm  
Ca ..... ≤100 ppm  
Fe ..... ≤10 ppm  
Assay (non-aqueous medium) .99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
483561	100 g	Plastic bottle	

**Sodium tartrate dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... White crystalline powder  
Identification ..... Positive  
pH sol. 5% at 25° C ..... 7.0 ÷ 9.0  
Loss on drying at 150° C ..... 15.61 ÷ 15.71 %  
Ammonium ..... ≤30 ppm  
Chloride ..... ≤5 ppm  
Phosphate ..... ≤5 ppm  
Water-insoluble matter ..... ≤50 ppm  
Heavy metals (Pb) ..... ≤5 ppm  
Sulphate ..... ≤50 ppm  
Ca ..... ≤100 ppm  
Fe ..... ≤10 ppm  
Assay (non-aqueous medium) .99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
483635	100 g	Plastic bottle	
483636	500 g	Plastic bottle	
483637	1 kg	Plastic bottle	

**Sodium tetraborate anhydrous**

• Sodio tetraborato anidro • Sodium tétraborate anhydre • Sodio tetraborato anhidro • Natriumtetraborat wasserfrei

Synonym:

Borax

Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>  
Molecular Weight: 201,22  
CAS: 1330-43-4  
EEC-N: 215-540-4

**Danger**

H360FD-HA26  
P201-P202-P280-P308+P313-P405-P501a

**Sodium tetraborate anhydrous > RPE - For analysis****RPE**

Description ..... White crystals  
Identification ..... Positive  
Chloride ..... ≤500 ppm  
Heavy metals (Pb) ..... ≤50 ppm  
Ca ..... ≤500 ppm  
Fe ..... ≤100 ppm  
Assay (acidimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
483735	100 g	Plastic bottle	
483736	1 kg	Plastic bottle	



## Sodium tetraborate decahydrate

• Sodio tetraborato decaidrato • Sodium tétraborate décahydraté • Sodio tetraborato decahidrato  
• Natriumtetraboratdecahydrat

Synonym:  
*Borax decahydrate*

$\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$   
Molecular Weight: 381,37  
CAS: 1303-96-4  
EEC-N: 215-540-4



### Danger

H319-H360FD-HA26  
P264-P280-P305+P351+P338-P308+P313-  
P337+P313-P501a

### Sodium tetraborate decahydrate > RPE - For analysis - ACS - ISO

### RPE

Description .....	White crystals	Phosphate .....	≤5 ppm	Ca .....	≤50 ppm	Ni .....	≤2 ppm
Identification .....	Positive	Water-insoluble matter .....	≤30 ppm	Cu .....	≤2 ppm	Pb .....	≤2 ppm
pH sol. M/100 at 25° C .....	9.00 ÷ 9.50	Heavy metals (Pb) .....	≤5 ppm	Fe .....	≤5 ppm	Zn .....	≤2 ppm
Carbonate .....	≤50 ppm	Sulphate .....	≤10 ppm	K .....	≤50 ppm	Assay (acidimetric) .....	≥99.5 %
Chloride .....	≤5 ppm	As .....	≤1 ppm	Mg .....	≤10 ppm		

Code	Size	Packaging	Notes
478815	100 g	Plastic bottle	
478816	500 g	Plastic bottle	
478817	1 kg	Plastic bottle	
478819	5 kg	Plastic tank	
478812	25 kg	Plastic bucket	

### Sodium tetraborate decahydrate > ERBApharm - According to pharmacopoeia: BP-FU-NF-Ph.Eur.-Ph.Franc.

### ERBApharm

Description .....	White crystalline powder	Carbonates and bicarb.....	Conform USP-NF	Heavy metals (Pb) .....	≤ 20 ppm	Ca .....	≤ 100 ppm
Identification .....	Positive	pH sol. 4% at 25 °C .....	9.0 ÷ 9.6	Sulphate .....	≤ 50 ppm	Fe .....	≤ 4 ppm
Appearance of solution .....	Conform Ph.Eur	Ammonium .....	≤ 10 ppm	As .....	≤ 5 ppm	Assay (alkalimetric) .....	99.0 ÷ 103.0 %

Code	Size	Packaging	Notes
367207	1 kg	Plastic bottle	
367209	5 kg	Plastic tank	
367201	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sodium tetraphenylborate

• Sodio tetrafenilborato • Sodium tétraphénylborate • Sodio tetrafenilborato • Natriumtetraphenylborat

Synonym:  
*Tetraphenylboron sodium salt*

$\text{Na}[\text{B}(\text{C}_6\text{H}_5)_4]$   
Molecular Weight: 342,23  
CAS: 143-66-8  
EEC-N: 205-605-5

### Classification transport

ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



### Danger

H301  
P264-P270-P301+P310a-P330-P405-P501a

### Sodium tetraphenylborate > RPE - For analysis - ACS

### RPE

Description .....	White crystalline powder	Appearance of solution .....	Conform	Assay (gravimetric) .....	≥99.5 %
Identification .....	Positive	Loss on drying .....	≤0.5 %		

Code	Size	Packaging	Notes
483758	5 g	Glass bottle	
483751	25 g	Glass bottle	

**Reagent for the precipitation titration and potassium**

## Sodium thiocyanate ▶ Sodium sulfocyanate

**Sodium thiosulfate anhydrous**

• Sodio tiosolfato anidro • Sodium thiosulfate anhydrous • Sodio tiosulfato anhidro • Natriumthiosulfat wasserfrei



Molecular Weight: 158,11

CAS: 7772-98-7

EEC-N: 231-867-5

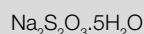
**Sodium thiosulfate anhydrous > RE - Pure****RE**

Description ..... White crystalline powder    pH sol 10% ..... 6.5 ÷ 9.5    Loss on drying ..... ≤ 2 %    Assay (oxidimetric) ..... ≥ 98 %  
 Identification ..... Positive    Sulphat + sulphit (SO4) ..... ≤ 1 %    Heavy metals (Pb) ..... ≤ 50 ppm    Fe ..... ≤ 50 ppm

Code	Size	Packaging	Notes
378377	1 kg	Plastic bottle	
378378	5 kg	Plastic tank	
378372	10 kg	Plastic tank	

**Sodium thiosulfate pentahydrate**

• Sodio tiosolfato pentaidrato • Sodium thiosulfate pentahydraté • Sodio tiosulfato pentahidrató • Natriumthiosulfat pentahydrat



Molecular Weight: 248,18

CAS: 10102-17-7

EEC-N: 231-867-5

**Sodium thiosulfate pentahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... Semitransparent crystals    Total nitrogen ..... ≤ 20 ppm    Sulphide ..... ≤ 1 ppm    pH sol. 10% at 20°C ..... 6.0 ÷ 8.4  
 Identification ..... Positive    Water-insoluble matter ..... ≤ 50 ppm    Assay (iodometric) ..... 99.5 ÷ 101.0 %    Heavy metals (Pb) ..... ≤ 10 ppm  
 pH sol. 5% at 25° C ..... 6.0 ÷ 8.4    Sulphat + sulphit (SO4) ..... ≤ 0.1 %    Appearance of solution ..... Conform

Code	Size	Packaging	Notes
483825	100 g	Plastic bottle	
483826	500 g	Plastic bottle	
483827	1 kg	Plastic bottle	
483829	5 kg	Plastic tank	
483821	25 kg	Plastic bucket	

**Sodium thiosulfate pentahydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP****ERBApharm**

Description ..... Colourless crystals    Sulphide ..... Conform Ph.Eur.    Loss at 45°C ..... 32.0 ÷ 37.0 %    Assay (iodometric) ..... 99.0 ÷ 100.5 % s.s.  
 Identification ..... Positive    Ca ..... Conform USP-NF    Sulphat + sulphit (SO4) ..... ≤ 0.2 %  
 Appearance of solution ..... Conform Ph.Eur.    pH sol 10% ..... 6.0 ÷ 8.4    Heavy metals (Pb) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
377907	1 kg	Plastic bottle	
377909	5 kg	Plastic tank	
377901	25 kg	Drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade****Sodium thiosulfate pentahydrate > RE - Pure****RE**

Description ..... Colourless crystals    Heavy metals (Pb) ..... ≤ 10 ppm    Fe ..... ≤ 5 ppm  
 Identification ..... Positive    S ..... ≤ 20 ppm    Assay (oxidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
378207	1 kg	Plastic bottle	
378209	5 kg	Plastic tank	
378202	25 kg	Plastic bucket	





## Sodium thiosulfate 1 mol/l (1N)

• Sodio tiosolfato 1 mol/l (1N) • Sodium thiosulfate 1 mol/l (1N) • Sodio tiosolfato 1 mol/l (1N) • Natriumthiosulfat 1 mol/l (1N)

$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$   
Molecular Weight: 248,18  
CAS: 10102-17-7

### Sodium thiosulfate 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.99 - 1.01 N

Code	Size	Packaging	Notes
484026	500 ml	Plastic bottle	

**158,11 g of Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>. Volumetric solution ready-to-use**



## Sodium thiosulfate 0.5 mol/l (0.5N)

• Sodio tiosolfato 0.5 mol/l (0.5N) • Sodium thiosulfate 0.5 mol/l (0.5N) • Sodio tiosolfato 0.5 mol/l (0.5N) • Natriumthiosulfat 0.5 mol/l (0.5N)

$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$   
Molecular Weight: 248,18  
CAS: 10102-17-7

### Sodium thiosulfate 0.5 mol/l (0.5N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.499 - 0.501 N

Code	Size	Packaging	Notes
P3530015	1 l	Plastic bottle	



## Sodium thiosulfate 0.2 mol/l (0.2N)

• Sodio tiosolfato 0.2 mol/l (0.2N) • Sodium thiosulfate 0.2 mol/l (0.2N) • Sodio tiosolfato 0.2 mol/l (0.2N) • Natriumthiosulfat 0.2 mol/l (0.2N)

$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$   
Molecular Weight: 248,18  
CAS: 10102-17-7

### Sodium thiosulfate 0.2 mol/l (0.2N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.1998 - 0.2002 N

Code	Size	Packaging	Notes
P3520022	5 l	Plastic tank	



## Sodium thiosulfate 0.1 mol/l (0.1N)

• Sodio tiosolfato 0.1 mol/l (0.1N) • Sodium thiosulfate 0.1 mol/l (0.1N) • Sodio tiosolfato 0.1 mol/l (0.1N) • Natriumthiosulfat 0.1 mol/l (0.1N)

$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$   
Molecular Weight: 248,18  
CAS: 10102-17-7

### Sodium thiosulfate 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613007301	500 ml	Glass bottle	Ref Ph.Eur 3007300
613007300	1 l	Glass bottle	Ref Ph.Eur 3007300

### Sodium thiosulfate 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 136.....e

Code	Size	Packaging	Notes
484077000	1 l	Glass bottle	Certified with NIST traceability
484072000	5 l	Kubidos	Certified with NIST traceability
484071000	10 l	Kubidos	Certified with NIST traceability

**15.811 g of Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>. Volumetric solution ready-to-use**

**Sodium thiosulfate 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
484121		Plastic ampoule	Volume: 55 ml

**Volumetric concentrated solution to prepare 1 L of solution 0,1 M****Sodium thiosulfate 0.0394 mol/l (0.0394N)**

- Sodio tiosolfato 0.0394 mol/l (0.0394N) • Sodium thiosulfate 0.0394 mol/l (0.0394N) • Sodio tiosolfato 0.0394 mol/l (0.0394N)
- Natriumthiosulfat 0.0394 mol/l (0.0394N)

$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$   
 Molecular Weight: 248,18  
 CAS: 10102-17-7

**Sodium thiosulfate 0.0394 mol/l (0.0394N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0390 - 0.0398 N

Code	Size	Packaging	Notes
484141	2.5 l	Glass bottle	

**Sodium thiosulfate 0.0197 mol/l (0.0197N)**

- Sodio tiosolfato 0.0197 mol/l (0.0197N) • Sodium thiosulfate 0.0197 mol/l (0.0197N) • Sodio tiosolfato 0.0197 mol/l (0.0197N)
- Natriumthiosulfat 0.0197 mol/l (0.0197N)

$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$   
 CAS: 10102-17-7

**Sodium thiosulfate 0.0197 mol/l (0.0197N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
484155	2.5 l	Glass bottle	

**Sodium thiosulfate 0.01 mol/l (0.01N)**

- Sodio tiosolfato 0.01 mol/l (0.01N) • Sodium thiosulfate 0.01 mol/l (0.01N) • Sodio tiosolfato 0.01 mol/l (0.01N) • Natriumthiosulfat 0.01 mol/l (0.01N)

$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$   
 Molecular Weight: 248,18  
 CAS: 10102-17-7

**Sodium thiosulfate 0.01 mol/l (0.01N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
484161		Plastic ampoule	Volume: 55 ml

**1,581 g Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,01 N****Sodium p-toluenesulfonate ► p-Toluenesulfonic acid sodium salt**



## Sodium tungstate dihydrate

- Sodio tungstato diidrato • Sodio tungstate dihydraté • Sodio tungstato dihidrato
- Natriumwolframatdihydrat

Synonym:  
Tungstic acid sodium salt dihydrate

Na<sub>2</sub>WO<sub>4</sub>·2H<sub>2</sub>O  
Molecular Weight: 329,86  
CAS: 10213-10-2  
EEC-N: 236-743-4



**Warning**  
H302-H319  
P264-P280i-P301+P312a-P305+P351+P338-  
P337+P313-P501a

### Sodium tungstate dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... White crystals Chloride ..... ≤ 50 ppm Sulphate ..... ≤ 100 ppm  
Identification ..... Positive Water-insoluble matter ..... ≤ 100 ppm Mo ..... ≤ 10 ppm  
Free alkalinity ..... ≤ 0.02 meq/g Heavy metals and Fe(Pb) ..... ≤ 10 ppm Assay (gravimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
484233	50 g	Glass bottle	
484236	500 g	Plastic bottle	



## Solvent Plus

- Solvente Plus • Solvant Plus • Disolvente Plus • Lösungsmittel Plus

Molecular Weight: 176  
CAS: 68551-19-9  
EEC-N: 271-369-5

**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group III



**Danger**  
H226-H304-HEU066  
P210-P241-P280-P301+P310a-P303+P361+P353-  
P403+P235

### Solvent Plus > RS - For histology

**RS**

Description ..... Clear liquid Identification ..... Positive Aromatic compounds ..... ≤ 0.05 % Distillation range ..... 175 ÷ 213 °C

Code	Size	Packaging	Notes
446187	2.5 l	Glass bottle	
446181	5 l	Plastic tank	

**Isoparaffins based histological clearing agent**



## Sorbitol

- Sorbitolo • Sorbitol • Sorbitol • Sorbit

Synonym:  
D-Glucitol

C<sub>6</sub>H<sub>14</sub>O<sub>6</sub>  
Molecular Weight: 182,17  
CAS: 50-70-4  
EEC-N: 200-061-5

### Sorbitol > ERBapharm - According to pharmacopoeia: FU-Ph.Eur.

**ERBapharm**

Description ..... White crystalline powder Reducing sugar ..... Conform Ph.Eur. Sostanze analoghe (HPLC) ..... Conform Ph.Eur. Escherichia coli ..... Absent Ph. Eur.  
Identification ..... Positive Assay (HPLC) ..... 97.0 ÷ 102.0 % anidro Conductivity ..... ≤ 20 µS.cm<sup>-1</sup> Salmonella ..... Absent Ph. Eur.  
Water (K.F) ..... ≤ 1.5 % Appearance of solution ..... Conform Ph.Eur. Microbial tests  
Ni ..... ≤ 1 ppm Specific optical rotation (anhydrous) +4.0 ÷ TAMC ..... ≤ 1000 CFU/g  
Pb ..... ≤ 0.5 ppm +7.0 ° TYMC ..... ≤ 100 CFU/g

Code	Size	Packaging	Notes
379013	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Sorbitol (no crystallizable) solution 70%**

- Sorbitolo (non cristallizzabile) soluzione 70% • Sorbitol solution 70%
- Sorbitol (no cristalizable) solución 70% • Sorbitollösung 70%

Synonym:  
D-Glucitol



Molecular Weight: 182,17

CAS: 50-70-4

EEC-N: 200-061-5

**Sorbitol (no crystallizable) solution 70% > ERBApharm - According to pharmacopoeia: Ph.Eur.-NF****ERBApharm**

Description .....	Clear colourless liquid	Conductivity .....	≤ 10 µS.cm-1	Specific optical rotation.....	+1.5 - +3.5 °	Sostanza anidra .....	68.0 ÷ 72.0 %
Identification .....	Positive	Ni .....	≤ 1 ppm	Residue on ignition .....	≤ 0.1 %	D- Sorbitolo .....	72.0 ÷ 92.0 %
Appearance of solution .....	Conform Ph.Eur.	Reducing sugar .....	≤ 0.2 %	pH sol. 14% .....	5.0 - 7.5		
Water (K.F.) .....	28.5 ÷ 31.5 %	Zuccheri riducenti dopo idrolisi.....	≤ 9.3 %	Assay (HPLC)			

Code	Size	Packaging	Notes
379021	1 l	Plastic bottle	
379022	5 l	Plastic tank	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**D-Sorbitol**

- D-Sorbitolo • D-Sorbitol • D-Sorbitol • Sorbit D

Synonym:  
D-Glucitol



Molecular Weight: 182,17

CAS: 50-70-4

EEC-N: 200-061-5

**D-Sorbitol > RPE - For analysis****RPE**

Description .....	White crystalline powder	Heavy metals (Pb).....	≤10 ppm	Total sugars(Glucose).....	≤0.3 %	Assay (oxidimetric) .....	≥98 %
Identification .....	Positive	Residue on ignition.....	≤0.1 %	As .....	≤2 ppm		
Loss on drying .....	≤1 %	Sulphate .....	≤100 ppm	Ca .....	≤50 ppm		
Chloride.....	≤50 ppm	Red.ing sugars(Glucose) .....	≤0.1 %	Fe .....	≤10 ppm		

Code	Size	Packaging	Notes
484704	100 g	Plastic bottle	
484705	250 g	Plastic bottle	
484701	1 kg	Plastic bottle	

**Standard solution 1.30 µS/cm**

- Soluzione standard da 1.30 µS/cm • Etalon de conductivité 1.30 µS/cm • Solución patrón de 1.30 µS/cm • Leitfähigkeitsstandard 1.30 µS/cm

**Classification transport**

ONU: 1274

Transport Hazard class: 3

Packing group III

**Danger**

H226-H302-H318-H336

P210-P280-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P403+P233

**Standard solution 1.30 µS/cm > RS - For conductivity****RS**

Description .....	Clear colourless liquid	Identification .....	Positive	Conductivity at 25°C .....	1.25 ÷ 1.35 µS/cm
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Code	Size	Packaging	Notes
575231	250 ml	Glass bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 5 µS/cm

• Soluzione standard da 5 µS/cm • Etalon de conductivité 5 µS/cm • Solución patrón de 5 µS/cm • Leitfähigkeitsstandard 5 µS/cm

**Classification transport**  
ONU: 1274  
Transport Hazard class: LQ



**Danger**  
H226-H302-H318-H336  
P210-P280-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P403+P233

### Standard solution 5 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 4.95 ÷ 5.05 µS/cm

Code	Size	Packaging	Notes
575001	250 ml	Glass bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 10 µS/cm

• Soluzione standard da 10 µS/cm • Etalon de conductivité 10µS/cm • Solución patrón de 10 µS/cm • Leitfähigkeitsstandard 10 µS/cm

**Classification transport**  
ONU: 1274  
Transport Hazard class: 3  
Packing group III



**Danger**  
H226-H302-H318-H336  
P210-P280-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P403+P233

### Standard solution 10 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 9.80 ÷ 10.20 µS/cm

Code	Size	Packaging	Notes
575011	250 ml	Glass bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 20 µS/cm

• Soluzione standard da 20 µS/cm • Etalon de conductivité 20 µS/cm • Solución patrón de 20 µS/cm • Leitfähigkeitsstandard 20 µS/cm

**Classification transport**  
ONU: 1274  
Transport Hazard class: LQ



**Danger**  
H226-H302-H318-H336  
P210-P280-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P403+P233

### Standard solution 20 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 19.80 ÷ 20.20 µS/cm

Code	Size	Packaging	Notes
575021	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 50 µS/cm

• Soluzione standard da 50 µS/cm • Etalon de conductivité 50 µS/cm • Solución patrón de 50 µS/cm • Leitfähigkeitsstandard 50 µS/cm

**Classification transport**  
ONU: 1274  
Transport Hazard class: 3  
Packing group III



**Danger**  
H226-H318-H336  
P210-P280-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P403+P233

### Standard solution 50 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 49.0 - 51.0 µS/cm

Code	Size	Packaging	Notes
575031	500 ml	Glass bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Standard solution 84 µS/cm**

• Soluzione standard da 84 µS/cm • Etalon de conductivité 84 µS/cm • Solución patrón de 84 µS/cm • Leitfähigkeitsstandard 84 µS/cm

**Standard solution 84 µS/cm > RS - For conductivity****RS**

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 83.16 ÷ 84.84 µS/cm

Code	Size	Packaging	Notes
575041	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Standard solution 100 µS/cm**

• Soluzione standard da 100 µS/cm • Etalon de conductivité 100 µS/cm • Solución patrón de 100 µS/cm • Leitfähigkeitsstandard 100 µS/cm

**Standard solution 100 µS/cm > RS - For conductivity****RS**

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 99.0 ÷ 101.0 µS/cm

Code	Size	Packaging	Notes
575051	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Standard solution 147 µS/cm**

• Soluzione standard da 147 µS/cm • Etalon de conductivité 147 µS/cm • Solución patrón de 147 µS/cm • Leitfähigkeitsstandard 147 µS/cm

**Standard solution 147 µS/cm > RS - For conductivity****RS**

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 145.5 ÷ 148.5 µS/cm

Code	Size	Packaging	Notes
575061	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Standard solution 200 µS/cm**

• Soluzione standard da 200 µS/cm • Etalon de conductivité 200 µS/cm • Solución patrón de 200 µS/cm • Leitfähigkeitsstandard 200 µS/cm

**Standard solution 200 µS/cm > RS - For conductivity****RS**

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 198.0 ÷ 202.0 µS/cm

Code	Size	Packaging	Notes
575071	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Standard solution 500 µS/cm**

• Soluzione standard da 500 µS/cm • Etalon de conductivité 500 µS/cm • Solución patrón de 500 µS/cm • Leitfähigkeitsstandard 500 µS/cm

**Standard solution 500 µS/cm > RS - For conductivity****RS**

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 495.0 ÷ 505.0 µS/cm

Code	Size	Packaging	Notes
575081	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**





## Standard solution 1000 µS/cm

• Soluzione standard da 1000 µS/cm • Etalon de conductivité 1000 µS/cm • Solución patrón de 1000 µS/cm • Leitfähigkeitsstandard 1000 µS/cm

### Standard solution 1000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 990.0 ÷ 1010.0 µS/cm

Code	Size	Packaging	Notes
575091	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 1413 µS/cm

• Soluzione standard da 1413 µS/cm • Etalon de conductivité 1413 µS/cm • Solución patrón de 1413 µS/cm • Leitfähigkeitsstandard 1413 µS/cm

### Standard solution 1413 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 1399 ÷ 1427 µS/cm

Code	Size	Packaging	Notes
575101	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 5000 µS/cm

• Soluzione standard da 5000 µS/cm • Etalon de conductivité 5000 µS/cm • Solución patrón de 5000 µS/cm • Leitfähigkeitsstandard 5000 µS/cm



#### Warning

H302  
P264-P270-P301+P312a-P330-P501a

### Standard solution 5000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 4950 ÷ 5050 µS/cm

Code	Size	Packaging	Notes
575111	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 10000 µS/cm

• Soluzione standard da 10000 µS/cm • Etalon de conductivité 10 000 µS/cm • Solución patrón de 10000 µS/cm • Leitfähigkeitsstandard 10.000 µS/cm



#### Warning

H302  
P264-P270-P301+P312a-P330-P501a

### Standard solution 10000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 9900 ÷ 10100 µS/cm

Code	Size	Packaging	Notes
575121	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 12880 µS/cm

• Soluzione standard da 12880 µS/cm • Etalon de conductivité 12 880 µS/cm • Solución patrón de 12880 µS/cm • Leitfähigkeitsstandard 12 880 µS/cm

### Standard solution 12880 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 12751 ÷ 13009 µS/cm

Code	Size	Packaging	Notes
575131	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Standard solution 20000  $\mu\text{S/cm}$** • Soluzione standard da 20000  $\mu\text{S/cm}$  • Etalon de conductivité 20 000  $\mu\text{S/cm}$  • Solución patrón de 20000  $\mu\text{S/cm}$  • Leitfähigkeitsstandard 20.000  $\mu\text{S/cm}$ **Warning**H302  
P264-P270-P301+P312a-P330-P501a**Standard solution 20000  $\mu\text{S/cm}$  > RS - For conductivity****RS**Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 19800  $\div$  20200  $\mu\text{S/cm}$ 

Code	Size	Packaging	Notes
575141	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Standard solution 50000  $\mu\text{S/cm}$** • Soluzione standard da 50000  $\mu\text{S/cm}$  • Etalon de conductivité 50 000  $\mu\text{S/cm}$  • Solución patrón de 50000  $\mu\text{S/cm}$  • Leitfähigkeitsstandard 50.000  $\mu\text{S/cm}$ **Warning**H302  
P264-P270-P301+P312a-P330-P501a**Standard solution 50000  $\mu\text{S/cm}$  > RS - For conductivity****RS**Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 49500  $\div$  50500  $\mu\text{S/cm}$ 

Code	Size	Packaging	Notes
575151	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Standard solution 100000  $\mu\text{S/cm}$** • Soluzione standard da 100000  $\mu\text{S/cm}$  • Etalon de conductivité 100 000  $\mu\text{S/cm}$  • Solución patrón de 100000  $\mu\text{S/cm}$  • Leitfähigkeitsstandard 100.000  $\mu\text{S/cm}$ **Warning**H302  
P264-P270-P301+P312a-P330-P501a**Standard solution 100000  $\mu\text{S/cm}$  > RS - For conductivity****RS**Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 99000  $\div$  101000  $\mu\text{S/cm}$ 

Code	Size	Packaging	Notes
575161	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Standard solution 150000  $\mu\text{S/cm}$** • Soluzione standard da 150000  $\mu\text{S/cm}$  • Etalon de conductivité 150 000  $\mu\text{S/cm}$  • Solución patrón de 150000  $\mu\text{S/cm}$  • Leitfähigkeitsstandard 150.000  $\mu\text{S/cm}$ **Warning**H302  
P264-P270-P301+P312a-P330-P501a**Standard solution 150000  $\mu\text{S/cm}$  > RS - For conductivity****RS**Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 148500  $\div$  151500  $\mu\text{S/cm}$ 

Code	Size	Packaging	Notes
575171	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 200000 µS/cm

• Soluzione standard da 200000 µS/cm • Etalon de conductivité 200 000 µS/cm • Solución patrón de 200000 µS/cm • Leitfähigkeitsstandard 200.000 µS/cm



### Warning

H302  
P264-P270-P301+P312a-P330-P501a

### Standard solution 200000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 198000 ÷ 202000 µS/cm

Code	Size	Packaging	Notes
575181	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 300000 µS/cm

• Soluzione standard da 300000 µS/cm • Etalon de conductivité 300 000 µS/cm • Solución patrón de 300000 µS/cm • Leitfähigkeitsstandard 300 000 µS/cm



### Warning

H302  
P264-P270-P301+P312a-P330-P501a

### Standard solution 300000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 297000 ÷ 303000 µS/cm

Code	Size	Packaging	Notes
575191	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 350000 µS/cm

• Soluzione standard da 350000 µS/cm • Etalon de conductivité 350 000 µS/cm • Solución patrón de 350000 µS/cm • Leitfähigkeitsstandard 350.000 µS/cm



### Warning

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group II

H290-H302-H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Standard solution 350000 µS/cm > RS - For conductivity

RS

Code	Size	Packaging	Notes
575201	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 450000 µS/cm

• Soluzione standard da 450000 µS/cm • Etalon de conductivité 450 000 µS/cm • Solución patrón de 450000 µS/cm • Leitfähigkeitsstandard 450.000 µS/cm



### Warning

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III

H290  
P234-P390-P406

### Standard solution 450000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 445500 ÷ 454500 µS/cm

Code	Size	Packaging	Notes
575211	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Standard solution 500000 µS/cm**

• Soluzione standard da 500000 µS/cm • Etalon de conductivité 500 000 µS/cm • Solución patrón de 500000 µS/cm • Leitfähigkeitsstandard 500.000 µS/cm

**Classification transport**ONU: 2796  
Transport Hazard class: 8  
Packing group II**Danger**H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Standard solution 500000 µS/cm > RS - For conductivity****RS**

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 495000 ÷ 505000 µS/cm

Code	Size	Packaging	Notes
575221	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Starch paste solution 1%**

• Salda d'amido soluzione 1% • Empois d'amidon solution 1% • Almidón en pasta solución 1% • Stärkelösung 1%

 $(C_6H_{10}O_5)_n$   
CAS: 9005-84-9**Starch paste solution 1% > RPE - For analysis****RPE**

Description ..... Colourless opaline liquid Identification ..... Positive

Code	Size	Packaging	Notes
E477301	250 ml	Glass bottle	
E477302	1 l	Bottle	

**Stabilized****Starch soluble**

• Amido solubile • Amidon soluble • Almidón soluble • Stärke

 $(C_6H_{10}O_5)_n$   
CAS: 9005-84-9  
EEC-N: 232-686-4**Starch soluble > RPE - For analysis - Reag. Ph. Eur.****RPE**Description ..... White powder pH solution 2% ..... 5.0 ÷ 7.0 Sulphated ash ..... ≤ 1.5 %  
Identification ..... Positive Loss on drying 100° C ..... ≤ 20 %

Code	Size	Packaging	Notes
417585	250 g	Plastic bottle	
417587	1 kg	Plastic bottle	

**Starch soluble solution**

• Amido solubile soluzione • Amidon soluble solution • Almidón soluble solución • Lösliche Stärkelösung

**Starch soluble solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611085103	100 ml	Plastic bottle	Ref Ph.Eur 1085103
611085104	1 l	Bottle	Ref Ph.Eur 1085103



## Stearic acid

• Acido stearico • Acide stéarique • Acido estearico • Stearinsäure

Synonym:  
1-Heptadecanecarboxylic acid

CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COOH  
Molecular Weight: 284,48  
CAS: 57-11-4  
EEC-N: 200-313-4

**Classification transport**  
ONU: 1325  
Transport Hazard class: 4.1  
Packing group III



**Warning**  
H228-H315-H319-H335  
P210-P241-P280-P304+P340-P305+P351+P338-P403+P233

### Stearic acid > ERBApharm - Vegetal origin - According to pharmacopoeia: Ph.Eur.-NF

ERBApharm

Description .....	White flakes	Acidity .....	Conform Ph.Eur.	Heavy metals (Pb).....	≤10 ppm	Assay (Stearic Acid+Palmitic Acid) ≥	90.0 %
Identification .....	Positive	Acidity index .....	194 ÷ 212	Ni.....	≤1 ppm		
Appearance .....	Conform Ph.Eur.	Iodine value .....	≤ 4,0	Melting point.....	53 ÷ 59 ° C		
Color of solution.....	Pass test USP-NF	Sulphated ash.....	≤0,1 %	Assay (Stearic Acid).....	40.0 ÷ 60.0 %		

Code	Size	Packaging	Notes
307112	2.5 kg	Plastic bottle	
307115	25 kg	Fibre drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

Stearic acid calcium salt ▶ Calcium stearate

Stearic acid magnesium salt ▶ Magnesium stearate



## Strontium standard solution

• Stronzio standard soluzione • Strontium solution standard • Estroncio, solución patrón • Strontium-Standardlösung



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

### Strontium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505867	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505868	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505869	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Strontium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503951	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503953	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503955	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503957	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Strontium standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507760	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507493	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497665	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497661	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Strontium standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
485391		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

**Strontium standard solution > RS - Standard solution for ion chromatography**

RS

Code	Size	Packaging	Notes
503361	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Strontium acetate**

• Stronzio acetato • Strontium acétate • Estroncio acetato • Strontium acetate

Sr(CH<sub>3</sub>COO)<sub>2</sub>  
Molecular Weight: 205,71  
CAS: 543-94-2  
EEC-N: 208-854-8

**Strontium acetate > RPE - For analysis**

RPE

Description ..... White cryst. powder	Heavy metals (Pb).....≤5 ppm	Ca.....≤0.1 %	Ni.....≤2.5 ppm
Identification ..... Positive	Nitrate.....≤30 ppm	Cu.....≤2.5 ppm	Pb.....≤2.5 ppm
pH sol. 5% at 25° C ..... 6.5 ÷ 8.5	Substanc. not ppt H <sub>2</sub> SO <sub>4</sub> .....≤0.15 %	Fe.....≤5 ppm	Zn.....≤2.5 ppm
Chloride.....≤50 ppm	Sulphate.....≤30 ppm	K.....≤500 ppm	Assay (complexometric).....≥99 %
Insol.in dil.acetic ac.....≤50 ppm	Ba.....≤50 ppm	Na.....≤0.15 %	

Code	Size	Packaging	Notes
485304	100 g	Glass bottle	

**Strontium bromide monohydrate**

• Stronzio bromuro monoidrato • Strontium bromure monohydraté • Estroncio bromuro monohidrato • Strontiumbromidmonohydrat

SrBr<sub>2</sub>·H<sub>2</sub>O  
Molecular Weight: 265,43  
CAS: 14519-13-2  
EEC-N: 233-969-5

**Warning**

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Strontium bromide monohydrate > RPE - For analysis**

RPE

Description ..... Polvere granular bianca	Water-insoluble matter .....≤100 ppm	Sulphide.....≤10 ppm	Ni.....≤25 ppm
Identification ..... Positive	Iodide.....≤50 ppm	Ba.....≤50 ppm	Pb.....≤25 ppm
pH sol. 5% at 25° C ..... 4.8 ÷ 8.0	Heavy metals (Pb).....≤5 ppm	Ca.....≤0.1 %	Zn.....≤25 ppm
Bromate.....≤10 ppm	Substanc. not ppt H <sub>2</sub> SO <sub>4</sub> .....≤0.2 %	Cu.....≤25 ppm	Assay (complexometric).....99 ÷ 100 %
Chloride.....≤0.2 %	Sulphate.....≤50 ppm	Fe.....≤5 ppm	

Code	Size	Packaging	Notes
485354	100 g	Glass bottle	



**Strontium carbonate**

• Stronzio carbonato • Strontium carbonate • Estroncio carbonato • Strontiumcarbonat



Molecular Weight: 147,63

CAS: 1633-05-2

EEC-N: 216-643-7

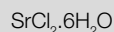
**Strontium carbonate > RPE - For analysis****RPE**

Description .....	White powder	HCl-insoluble matter .....	≤100 ppm	Ca .....	≤0.2 %	Zn .....	≤5 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤60 ppm	Cu .....	≤5 ppm	Assay (complexometric) .....	99 ÷ 100 %
Alkalinity(SrOH) .....	≤300 ppm	Substanc. not ppt H2SO4 .....	≤0.3 %	Fe .....	≤10 ppm		
Chloride .....	≤10 ppm	Sulphate .....	≤50 ppm	Ni .....	≤5 ppm		
Phosphate .....	≤10 ppm	Ba .....	≤200 ppm	Pb .....	≤5 ppm		

Code	Size	Packaging	Notes
485404	100 g	Glass bottle	
485407	1 kg	Plastic bottle	

**Strontium chloride hexahydrate**

• Stronzio cloruro esaidrato • Strontium chlorure hexahydraté • Estroncio cloruro hexahidratado • Strontiumchlorid-Hexahydrat



Molecular Weight: 266,62

CAS: 10025-70-4

EEC-N: 233-971-6

**Danger**

H318

P280i-P305+P351+P338-P310a

**Strontium chloride hexahydrate > RPE - For analysis - ACS****RPE**

Description .....	crist. bianchi	Water-insoluble matter .....	≤50 ppm	Ba .....	≤500 ppm	Mg .....	≤2 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤5 ppm	Ca .....	≤500 ppm	Assay (complexometric) .....	99.0 ÷ 103.0 %
pH sol. 5% at 25° C .....	5.0 ÷ 7.0	Sulphate .....	≤10 ppm	Fe .....	≤5 ppm		

Code	Size	Packaging	Notes
485455	250 g	Plastic bottle	
485457	1 kg	Plastic bottle	

**Strontium nitrate**

• Stronzio nitrato • Strontium nitrate • Estroncio nitrato • Strontiumnitrato



Molecular Weight: 211,63

CAS: 10042-76-9

EEC-N: 233-131-9

**Classification transport**

ONU: 1507

Transport Hazard class: 5.1

Packing group III

**Danger**

H272-H302

P210-P220-P264-P280-P301+P312a-P501a

**Strontium nitrate > RPE - For analysis - ACS****RPE**

Description .....	White crystalline powder	Chloride .....	≤20 ppm	Sulphate .....	≤50 ppm	Assay (complexometric) .....	≥99.0 %
Identification .....	Positive	Water-insoluble matter .....	≤100 ppm	Ba .....	≤500 ppm		
pH sol. 5% at 25° C .....	5.0 ÷ 7.0	Mg and Alkali salts .....	≤0.15 %	Ca .....	≤500 ppm		
Loss on drying .....	≤0.1 %	Heavy metals (Pb) .....	≤5 ppm	Fe .....	≤5 ppm		

Code	Size	Packaging	Notes
485605	250 g	Plastic bottle	
485607	1 kg	Plastic bottle	

**Strontium nitrate > RE - Pure****RE**

Description .....	White cryst. powder	Chloride .....	≤500 ppm	Heavy metals (Pb) .....	≤50 ppm	Fe .....	≤50 ppm
Identification .....	Positive	Water-insoluble matter .....	≤0.1 %	Sulphate .....	≤500 ppm	Assay (complexometric) .....	≥98 %

Code	Size	Packaging	Notes
379707	1 kg	Plastic bottle	

**Strontium sulfate**

• Stronzio solfato • Strontium sulfate • Estroncio sulfato • Strontiumsulfat

Synonym:  
*Celestite*

Molecular Weight: 183,68

CAS: 7759-02-6

EEC-N: 231-850-2

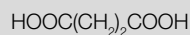
**Strontium sulfate > RPE - For analysis****RPE**

Description	White powder	Chloride	≤20 ppm	Ca	≤0.2 %	Zn	≤5 ppm
Identification	Positive	Heavy metals (Pb)	≤10 ppm	Cu	≤5 ppm	Assay (complexometric)	≥99 %
Loss on ignition	≤1 %	Nitrate	≤0.1 %	Fe	≤10 ppm		
Acidity (Sulphuric acid)	≤200 ppm	Soluble salts	≤0.3 %	Ni	≤5 ppm		
Alkalinity (SrOH)	≤30 ppm	Ba	≤100 ppm	Pb	≤5 ppm		

Code	Size	Packaging	Notes
485705	250 g	Plastic bottle	

**Succinic acid**

• Acido succinico • Acide succinique • Acido succinico • Bernsteinsäure

Synonym:  
*Butanedioic acid*

Molecular Weight: 118,09

CAS: 110-15-6

EEC-N: 203-740-4

**Warning**

H319

P264-P280i-P305+P351+P338-P337+P313

**Succinic acid > RPE - For analysis****RPE**

Description	white crystalline powder	Water (K.F.)	≤ 0.5 %	Fe	≤ 5 ppm
Melting point	185 ÷ 190 °C	Assay (complexometry)	≥ 99.5 % s.s	Other organic acid	≤ 0.5 %

Code	Size	Packaging	Notes
411025	250 g	Plastic bottle	
411027	1 kg	Plastic bottle	
411023	25 kg	Plastic bucket	

**Succinic anhydride**

• Anidride succinica • Anhydride succinique • Anhidrido succinico • Bernsteinsäureanhydrid

Synonym:  
*Dihydro-2,5-furandione*

Molecular Weight: 100,07

CAS: 108-30-5

EEC-N: 203-570-0

**Warning**

H302-H319-H335

P261-P271-P304+P340-P305+P351+P338-P337+P313-P403+P233

**Succinic anhydride > RPE - For analysis****RPE**

Description	White crystal powder	Melting point	118 ÷ 120 °C	Heavy metals (Pb)	≤ 20 ppm	Assay (dried base)	≥ 99.0 %
Identification (I.R.)	Positive	Residue on ignition	≤ 500 ppm	Fe	≤ 20 ppm		

Code	Size	Packaging	Notes
422204	100 g	Glass bottle	

**Succinic anhydride > RE - Pure****RE**

Description	White crystal powder	Melting point	118 ÷ 120 °C	Heavy metals (Pb)	≤ 20 ppm
Identification (I.R.)	Positive	Residue on ignition	≤ 0.1 %	Assay (dried base)	≥ 99 %

Code	Size	Packaging	Notes
318507	1 kg	Plastic bottle	



## D(+)-Sucrose

• D(+)-Saccarosio • D(+)-Saccharose • D(+)-Sacarosa • D(+)-Saccharose

Synonym:

$\alpha$ -D-Glucopyranosyl  $\beta$ -D-fructofuranoside



Molecular Weight: 342,3

CAS: 57-50-1

EEC-N: 200-334-9

### D(+)-Sucrose > RPE - For analysis - ACS

RPE

Description .....	White crystals	Acidity .....	$\leq 0.0008$ meq/g	Water-insoluble matter .....	$\leq 50$ ppm	Sulphat + sulphit (SO <sub>4</sub> ) .....	$\leq 50$ ppm
Identification .....	Positive	Loss on drying .....	$\leq 300$ ppm	Heavy metals (Pb) .....	$\leq 5$ ppm	Inver.sugar (Glucose) .....	$\leq 500$ ppm
Specific optical rotation...	$+66.3 \div +66.8$ °	Chloride .....	$\leq 50$ ppm	Residue on ignition .....	$\leq 100$ ppm	Fe .....	$\leq 5$ ppm

Code	Size	Packaging	Notes
477186	100 g	Plastic bottle	
477187	1 kg	Plastic bottle	
477182	5 kg	Plastic tank	
477183	25 kg	Plastic bucket	

### D(+)-Sucrose > ERBApharm - According to pharmacopoeia: BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBApharm

Description .....	White crystalline powder	Dextrine .....	Conform Ph.Eur.	Colore (A) .....	$\leq 45$ Ph.Eur.	Sulphite .....	$\leq 10$ ppm
Identification .....	Positive	Reducing sugar .....	Conform Ph.Eur.	Specific optical rotation...	$+66.3 \div +67.0$ °	Pb .....	$\leq 0.5$ ppm
Appearance of solution .....	Conform Ph.Eur.	Conductivity .....	Conform Ph.Eur.	Loss on drying .....	$\leq 0.1$ %		

Code	Size	Packaging	Notes
365157	1 kg	Plastic bottle	
365158	5 kg	Plastic tank	
365152	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sudan black B

• Nero Sudan B • Noir Soudan B • Negro Sudan B • Schwarzer Sudan B

Synonym:

Ceres black BN



Molecular Weight: 456,55

CAS: 4197-25-5

EEC-N: 224-087-1

### Sudan black B > RS - For microscopy - C.I. 26150

RS

Description .....	Black powder	Identification .....	Positive
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Code	Size	Packaging	Notes
464241	25 g	Glass bottle	

**Dye for histology**



## Sudan III

• Sudan III • Soudan III • Sudan III • Sudan III

Synonym:

1-[4-(Phenylazo)phenylazo]-2-naphthol



Molecular Weight: 352,4

CAS: 85-86-9

EEC-N: 201-638-4

### Sudan III > RS - For microscopy - C.I. 26100

RS

Description .....	Red brick powder	Identification .....	Positive
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Code	Size	Packaging	Notes
485902	25 g	Glass bottle	

**Dye for histology**

**Sudan III hydroalcoholic saturated solution**

- Sudan III soluzione idroalcolica satura • Soudan III solution hydroalcoolique
- Sudan III solución hidroalcohólica • Sudan III hydroalkoholische Lösung

Synonym:

1-[4-(Phenylazo)phenylazo]-2-naphthol

C<sub>22</sub>H<sub>16</sub>N<sub>4</sub>O

Molecular Weight: 352,4

CAS: 85-86-9

**Classification transport**

ONU: 1170

Transport Hazard class: 3

Packing group II

**Danger**

H225-H319-H336

P210-P280-P303+P361+P353-P304+P340-

P305+P351+P338-P403+P233

**Sudan III hydroalcoholic saturated solution > RS - For the colouring of neutral fats****RS**

Description ..... Red clear liquid Identification ..... Positive Density at 20° C ..... 0.855 ÷ 0.861

Code	Size	Packaging	Notes
E485952	250 ml	Glass bottle	

**Sudan yellow**

- Giallo Sudan • Jaune Soudan • Amarillo Sudán • Sudangelb

Synonym:

- Sudan I
- 1-Phenylazo-2-naphthol

C<sub>16</sub>H<sub>12</sub>N<sub>2</sub>O

Molecular Weight: 248,28

CAS: 842-07-9

EEC-N: 212-668-2

**Warning**

H317-H341-H351-H413

P261-P280-P308+P313-P362+P364-P333+P313-

P501a

**Sudan yellow > RPE - For analysis - C.I. 12055****RPE**

Description ..... Red-orange crystalline powder Identification ..... Positive

Code	Size	Packaging	Notes
453581	10 g	Glass bottle	
453582	25 g	Glass bottle	

**Sulfamic acid**

- Acido solfamico • Acide sulfamique • Acido sulfamico • Sulfaminsäure

Synonym:

Amidosulfonic acid

NH<sub>2</sub>SO<sub>3</sub>H

Molecular Weight: 97,09

CAS: 5329-14-6

EEC-N: 226-218-8

**Classification transport**

ONU: 2967

Transport Hazard class: 8

Packing group III

**Warning**

H315-H319-H412

P264-P280a-P305+P351+P338-P332+P313-

P362+P364-P337+P313

**Sulfamic acid > RPE - For analysis - ACS****RPE**

Description ..... White crystals Water-insoluble matter ..... ≤ 100 ppm Sulphate ..... ≤ 0.05 %  
 Identification ..... Positive Heavy metals (Pb) ..... ≤ 10 ppm Fe ..... ≤ 5 ppm  
 Chloride ..... ≤ 10 ppm Residue on ignition ..... ≤ 100 ppm Assay (acidimetric) ..... 99.3 ÷ 100.3 %

Code	Size	Packaging	Notes
410105	250 g	Plastic bottle	
410106	500 g	Plastic bottle	
410104	25 kg	Plastic bucket	

**Sulfamic acid > RE - Pure****RE**

Description ..... White crystals Heavy metals (Pb) ..... ≤ 20 ppm Fe ..... ≤ 20 ppm  
 Identification ..... Positive Sulphate ..... ≤ 0.3 % Assay ..... ≥ 99.5 %

Code	Size	Packaging	Notes
306507	1 kg	Plastic bottle	
306508	5 kg	Plastic tank	
306503	25 kg	Plastic bucket	



## Sulfanilamide

• Solfanilammide • Sulfanilamide • Sulfanilamida • Sulfanilsäureamid

Synonym:

*p*-Aminobenzenesulfonamide

$C_6H_8O_2N_2S$   
Molecular Weight: 172,2  
CAS: 63-74-1  
EEC-N: 200-563-4

### Sulfanilamide > RS - For microanalysis

RS

Description ..... White crystalline powder    Melting point .....  $164 \pm 167^\circ C$     Assay .....  $\geq 97.5\%$  (s.s.)  
Identification ..... Positive    Loss on drying .....  $\leq 0.5\%$

Code	Size	Packaging	Notes
485961	2 g	Glass bottle	

### Sulfanilamide > RPE - For analysis

RPE

Description ..... White to off white crystals or powder    IR ..... Conforms to structure    Loss on drying  $105^\circ C$  .....  $\leq 0.5\%$   
Assay .....  $\geq 99.0\%$  (ds)    Acidity ..... Passes test    Sulphated ash .....  $\leq 0.1\%$

Code	Size	Packaging	Notes
485971	100 g	Plastic bottle	



## Sulfanilic acid

• Acido solfanilico • Acide sulfanilique • Acido sulfanilico • Sulfanilsäure

Synonym:

• 4-Aminobenzenesulfonic acid  
• Aniline-4-sulfonic acid

$4-NH_2C_6H_4SO_3H$   
Molecular Weight: 173,19  
CAS: 121-57-3  
EEC-N: 204-482-5



Warning

H315-H319-H317  
P261-P264-P280a-P305+P351+P338-P362+P364-P337+P313

### Sulfanilic acid > RS - For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000700	50 g	Plastic bottle	Ref Ph.Eur 2000700

### Sulfanilic acid > RPE - For analysis - ACS - Reag. Ph.Eur.

RPE

Description ..... White powder    Sodium carbonate 5% ins .....  $\leq 200$  ppm    Chloride .....  $\leq 20$  ppm    Sulphate .....  $\leq 100$  ppm  
Identification ..... Positive    Residue on ignition .....  $\leq 100$  ppm    Nitrite .....  $\leq 0.5$  ppm    Assay (acidimetric) .....  $98.0 \div 102.0\%$

Code	Size	Packaging	Notes
410154	100 g	Plastic bottle	
410156	500 g	Plastic bottle	



## Sulfate standard solution

• Solfati standard soluzione • Sulfate solution standard • Solfato, solución patrón • Sulfat-Standardlösung

### Sulfate standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002801	100 ml	Plastic bottle	A 10 ppm solution R1: to dilute according to Ref Ph.Eur 5002801
615002802	100 ml	Plastic bottle	A 100 ppm solution: to dilute according to Ref Ph.Eur 5002802
615002809	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5002800

**Sulfate standard solution > RS - Standard solution for ion chromatography**

RS

Code	Size	Packaging	Notes
503351	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
503353	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Sulfite standard solution**

• Solfito standard soluzione • Sulfite standard solution • Sulfito, solución patrón • Sulfit-Standardlösung

**Sulfite standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615002900	100 ml	Plastic bottle	A 1,5 ppm solution Ref Ph.Eur 5002900

**Sulfolane**

• Sulfolano • Sulfolane • Sulfolano • Sulfolano

Synonym:

Tetrahydrothiophene 1,1-dioxide

CH<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>SO<sub>2</sub>  
Molecular Weight: 120,17  
CAS: 126-33-0  
EEC-N: 204-783-1

**Warning**

H302

P264-P270-P301+P312a-P330-P501a

**Sulfolane > RS - Anhydrous - For analysis**

RS

Water content (K.F.) ..... ≤ 200 mg/Kg Assay (GC) ..... ≥ 98.5 % Colourless to light yellow appearance ..... Conform

Code	Size	Packaging	Notes
P932SP16	1 l	Glass bottle	

**Sulfomolybdic reagent**

• Reattivo solfomolibdico • Réactif sulfomolybdique • Reactivo sulfomolibdico • Sulfomolybdat-Reagens

**Classification transport**

ONU: 1760  
Transport Hazard class: 8  
Packing group II

**Danger**

H290-H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Sulfomolybdic reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611086500	100 ml	Plastic bottle	Sulfomolybdic reagent R3 Ref Ph.Eur 1086500

**Sulfosalicylic acid**

• Acido solfosalicilico • Acide sulfosalicylique • Acido sulfosalicilico • Sulfosalicylsäure

Synonym:

2-Hydroxy-5-sulfobenzoic acid

HO.C<sub>6</sub>H<sub>3</sub>(COOH)SO<sub>3</sub>H.2H<sub>2</sub>O  
Molecular Weight: 254,2  
CAS: 5965-83-3  
EEC-N: 202-555-6

**Warning**

H315-H319

P264-P280a-P305+P351+P338-P332+P313-P362+P364-P337+P313

**Sulfosalicylic acid > RPE - For analysis - ACS**

RPE

Description ..... Solido bianco Chloride ..... ≤ 10 ppm Residue on ignition ..... ≤ 0.1 % Assay (acidimetric) ..... 99.0 ÷ 101.0 %  
Identification ..... Positive Water-insoluble matter ..... ≤ 0.02 % Sulphate ..... ≤ 0.02 %  
Salicylic acid ..... ≤ 0.04 % Heavy metals (Pb) ..... ≤ 20 ppm Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
410894	100 g	Glass bottle	
410896	500 g	Plastic bottle	





## Sulfur sublimed and washed

• Zolfo sublimato lavato ventilato • Soufre sublimé lavé ventilé • Azufre sublimado lavado • Schwefel sublimiert und gewaschen

S	<b>Classification transport</b>	<b>Warning</b>
Molecular Weight: 32,06	ONU: 1350	H315
CAS: 7704-34-9	Transport Hazard class: 4.1	P264-P280g-P302+P352a-P332+P313-P362+P364
EEC-N: 231-722-6	Packing group III	

### Sulfur sublimed and washed > RE - Pure

RE

Description ..... Yellow powder      Residue on ignition ..... ≤ 0.1 %      Assay (gravimetric) ..... ≥ 99.5 %  
 Identification ..... Positive      Acidity (H<sub>2</sub>SO<sub>4</sub>) ..... ≤ 0.1 %

Code	Size	Packaging	Notes
378807	1 kg	Plastic bottle	
378809	5 kg	Plastic tank	
378802	25 kg	Plastic bucket	



## Sulfur standard solution

• Zolfo standard soluzione • Soufre solution standard • Azufre, solución patrón • Schwefel-Standardlösung

### Sulfur standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505822	100 ml	Plastic bottle	conc. 10 ppm Matrix: Water
505825	100 ml	Plastic bottle	conc. 100 ppm Matrix: Water
505823	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Sulfur standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504291	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
504293	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
504295	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Water
504297	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Sulfuric acid 98%

• Acido solforico 98% • Acide sulfurique 98% • Acido sulfúrico 98% • Schwefelsäure 98%

H <sub>2</sub> SO <sub>4</sub>	<b>Classification transport</b>	<b>Danger</b>
Molecular Weight: 98,08	ONU: 1830	H290-H314
CAS: 7664-93-9	Transport Hazard class: 8	P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338
EEC-N: 231-639-5	Packing group II	

### Sulfuric acid 98% > RS - For microanalysis

RS

Description ..... Clear liquid      Identification ..... Positive      Density at 20° C ..... ~ 1.835      Assay ..... 95 ÷ 98 %

Code	Size	Packaging	Notes
410421	1 l	Glass bottle	

### Sulfuric acid 98% > RPE - For nitrogen dosing

RPE

Description ..... Clear colourless liquid      Density at 20°C ..... ~ 1.84      Total nitrogen (N) ..... ≤ 2 ppm      Assay (acidimetric) ..... 95 - 98 %

Code	Size	Packaging	Notes
502641	2.5 l	Glass bottle	

**Content is guaranteed for standardized volumes at 20 °C**

**Sulfuric acid 96% (66°Be)**

• Acido solforico 96% (66°Bé) • Acide sulfurique 96% (66°Bé) • Acido sulfúrico 96% (66°Bé) • Schwefelsäure 96% (66° Be)



Molecular Weight: 98,08

CAS: 7664-93-9

EEC-N: 231-639-5

**Classification transport**

ONU: 1830

Transport Hazard class: 8

Packing group II

**Danger**

H290-H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Sulfuric acid 96% (66°Be) > RE - Pure****RE**

Description Clear or opaline colourless liquid

Identification ..... Positive

Density at 20° C ..... 1.830 ÷ 1.836

Chloride ..... ≤500 ppm

Cu ..... ≤ 0.02 ppm

Assay (acidimetric) ..... ≥96 %

Pb ..... ≤ 0.03 ppm

Zn ..... ≤ 0.25 ppm

Code	Size	Packaging	Notes
306751	2.5 l	Glass bottle	
306755	25 kg	Plastic bucket	
306752	50 kg	Plastic drum	

**Sulfuric acid 96%**

• Acido solforico 96% • Acide sulfurique 96% • Acido sulfúrico 96% • Schwefelsäure 96%



Molecular Weight: 98,08

CAS: 7664-93-9

EEC-N: 231-639-5

**Classification transport**

ONU: 1830

Transport Hazard class: 8

Packing group II

**Danger**

H290-H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Sulfuric acid 96% > RS - VLSI - For electronic use****RS**

Code	Size	Packaging	Notes
527631	1 l	Plastic bottle	
527630	2.5 l	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis****Sulfuric acid 96% > RS - RSE - For electronic use****RS**

Description ..... Clear liquid	Ag ..... ≤0.02 ppm	Cu ..... ≤0.01 ppm	Pt ..... ≤0.05 ppm
Colour (APHA) ..... ≤10	Al ..... ≤0.05 ppm	Fe ..... ≤0.1 ppm	Sb ..... ≤0.01 ppm
Identification ..... Positive	As ..... ≤0.005 ppm	Ga ..... ≤0.02 ppm	Se ..... ≤0.5 ppm
Density at 20° C ..... 1.834 ÷ 1.836	Au ..... ≤0.05 ppm	In ..... ≤0.02 ppm	Sn ..... ≤0.02 ppm
Assay (acidimetric) ..... 95.0 ÷ 97.0 %	B ..... ≤0.01 ppm	K ..... ≤0.1 ppm	Sr ..... ≤0.02 ppm
Ammonium ..... ≤0.5 ppm	Ba ..... ≤0.05 ppm	Li ..... ≤0.02 ppm	Ti ..... ≤0.05 ppm
Chloride ..... ≤0.1 ppm	Be ..... ≤0.02 ppm	Mg ..... ≤0.1 ppm	Tl ..... ≤0.05 ppm
Heavy metals (Pb) ..... ≤0.4 ppm	Bi ..... ≤0.02 ppm	Mn ..... ≤0.01 ppm	V ..... ≤0.05 ppm
Nitrate ..... ≤0.1 ppm	Ca ..... ≤0.2 ppm	Mo ..... ≤0.01 ppm	Zn ..... ≤0.02 ppm
Phosphate ..... ≤0.5 ppm	Cd ..... ≤0.005 ppm	Na ..... ≤0.5 ppm	Zr ..... ≤0.05 ppm
Residue on ignition ..... ≤3 ppm	Co ..... ≤0.01 ppm	Ni ..... ≤0.01 ppm	
Subst. reducing KMnO4 ..... ≤2 ppm	Cr ..... ≤0.01 ppm	Pb ..... ≤0.02 ppm	

Code	Size	Packaging	Notes
410374	1 l	Glass bottle	
410371	2.5 l	Glass bottle	

## Sulfuric acid 96% > RS - MOS - For electronic use

**RS**

Description .....	Clear liquid	Ag .....	≤0.02 ppm	Cu .....	≤0.01 ppm	Pt .....	≤0.05 ppm
Colour (APHA) .....	≤10	Al .....	≤0.05 ppm	Fe .....	≤0.1 ppm	Sb .....	≤0.01 ppm
Identification .....	Positive	As .....	≤0.005 ppm	Ga .....	≤0.02 ppm	Se .....	≤0.5 ppm
Density at 20° C .....	1.834 ÷ 1.836	Au .....	≤0.05 ppm	In .....	≤0.02 ppm	Sn .....	≤0.02 ppm
Assay (acidimetric) .....	95.0 ÷ 97.0 %	B .....	≤0.01 ppm	K .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Ammonium .....	≤0.5 ppm	Ba .....	≤0.05 ppm	Li .....	≤0.05 ppm	Ti .....	≤0.05 ppm
Chloride .....	≤0.1 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Heavy metals (Pb) .....	≤0.4 ppm	Bi .....	≤0.02 ppm	Mn .....	≤0.01 ppm	V .....	≤0.05 ppm
Nitrate .....	≤0.1 ppm	Ca .....	≤0.2 ppm	Mo .....	≤0.01 ppm	Zn .....	≤0.02 ppm
Phosphate .....	≤0.5 ppm	Cd .....	≤0.005 ppm	Na .....	≤0.5 ppm	Zr .....	≤0.05 ppm
Residue on ignition .....	≤3 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.01 ppm		
Subst. reducing KMnO4 .....	≤2 ppm	Cr .....	≤0.01 ppm	Pb .....	≤0.02 ppm		

Code	Size	Packaging	Notes
410382	1 l	Glass bottle	
410381	2.5 l	Glass bottle	

## Sulfuric acid 96% > RS - For environmental analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RS**

Description .....	Clear oily liquid	Subst. reducing KMnO4 .....	≤2 ppm	Cu .....	≤0.01 ppm	Se .....	≤3 ppm
Colour (APHA) .....	≤10	Ag .....	≤0.02 ppm	Fe .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Colour of 2N solution(APHA) .....	≤10	Al .....	≤0.05 ppm	Hg .....	≤0.005 ppm	Ti .....	≤0.05 ppm
Identification .....	Positive	As .....	≤0.005 ppm	K .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Density at 20° C .....	1.834 ÷ 1.836	Ba .....	≤0.1 ppm	Li .....	≤0.02 ppm	V .....	≤0.05 ppm
Ammonium .....	≤1 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Zn .....	≤0.05 ppm
Chloride .....	≤0.1 ppm	Bi .....	≤0.02 ppm	Mn .....	≤0.01 ppm	Zr .....	≤0.05 ppm
Phosphate .....	≤0.5 ppm	Ca .....	≤0.2 ppm	Mo .....	≤0.01 ppm	Assay (acidimetric) .....	95.0 ÷ 97.0 %
Heavy metals (Pb) .....	≤0.8 ppm	Cd .....	≤0.005 ppm	Na .....	≤0.5 ppm		
Nitrate .....	≤0.2 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.02 ppm		
Residue on ignition .....	≤4 ppm	Cr .....	≤0.05 ppm	Pb .....	≤0.02 ppm		

Code	Size	Packaging	Notes
410261	1 l	Glass bottle	

**Low content in Hg**

## Sulfuric acid 96% > RPE - For analysis - ISO

**RPE**

Description .....	Clear oily liquid	Heavy metals (Pb) .....	≤0.8 ppm	Cu .....	≤0.01 ppm	Pb .....	≤0.02 ppm
Colour (APHA) .....	≤10	Nitrate .....	≤0.2 ppm	Fe .....	≤0.1 ppm	Se .....	≤3 ppm
Colour of 2N solution(APHA) .....	≤10	Residue on ignition .....	≤4 ppm	K .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Identification .....	Positive	Subst. reducing KMnO4 .....	≤2 ppm	Li .....	≤0.02 ppm	Zn .....	≤0.05 ppm
Density at 20° C .....	1.834 ÷ 1.836	As .....	≤0.01 ppm	Mg .....	≤0.2 ppm	Assay (acidimetric) .....	95 ÷ 97 %
Ammonium .....	≤1 ppm	Ca .....	≤0.2 ppm	Na .....	≤0.5 ppm		
Chloride .....	≤0.1 ppm	Cd .....	≤0.005 ppm	Ni .....	≤0.05 ppm		

Code	Size	Packaging	Notes
410301	1 l	Glass bottle	
410303	1 l	Glass bottle PVC coated	
524540	1 l	Plastic bottle	
410306	2.5 l	Glass bottle	
524541	2.5 l	Plastic bottle	
410304	5 l	Plastic tank	
524543	25 l	Plastic tank	
410307	30 kg	Plastic drum	
410302	50 kg	Plastic drum	

**Content is guaranteed for standardized volumes at 20 °C**

## Sulfuric acid 96% > ERBApharm - According to pharmacopoeia: BP-NF-Ph.Eur.

**ERBApharm**

Description .....	Clear colourless liquid	Nitrate .....	Conform Ph.Eur.	Chloride.....	≤ 50 ppm	Fe .....	≤ 25 ppm
Identification .....	Positive	Density at 20° C .....	~ 1.84	Heavy metals (Pb).....	≤ 5 ppm	Assay (acidimetric) .....	95.0 ÷ 98.0 %
Appearance of solution .....	Conform Ph.Eur.	Sulphated ash.....	≤ 50 ppm	As .....	≤ 1 ppm	Subst. reducing KMnO4 ...	Conform USP-NF

Code	Size	Packaging	Notes
306651	1 l	Glass bottle	
306657	2.5 l	Glass bottle	
306653	50 kg	Plastic drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Sulfuric acid 95-97%

• Acido solforico 95-97% • Acide sulfurique 95-97% • Acido sulfúrico 95-97% • Schwefelsäure 95-97%

H <sub>2</sub> SO <sub>4</sub> Molecular Weight: 98,08 CAS: 7664-93-9 EEC-N: 231-639-5	<b>Classification transport</b> ONU: 1830 Transport Hazard class: 8 Packing group II		<b>Danger</b> H290-H314 P280-P301+P330+P331-P303+P361+P353- P304+P340-P310a-P305+P351+P338
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## Sulfuric acid 95 - 97 % > RPE - For nitrogen dosing - Reag.Ph.Eur.

**RPE**

Description .....	Clear oily liquid	Ammonium .....	≤ 1 ppm	Residue on ignition .....	≤ 4 ppm	Subs. reducing KMnO4 .....	Pass test
Identification .....	Positive	Chloride .....	≤ 0.1 ppm	As .....	≤ 0.01 ppm	Test nitrate (Ph.Eur.) .....	Pass test
Colour .....	≤ 10 APHA	Heavy metals (Pb).....	≤ 0.8 ppm	Fe .....	≤ 0.1 ppm	Assay (acidimetric) .....	95.0 ÷ 97.0 %
Density at 20°C .....	1.834 ÷ 1.836	Nitrate .....	≤ 0.2 ppm	Total nitrogen .....	≤ 2 ppm		

Code	Size	Packaging	Notes
502302	1 l	Glass bottle	



## Sulfuric acid 93-98%

• Acido solforico 93-98% • Acide sulfurique 93-98% • Acido sulfúrico 93-98% • Schwefelsäure 93-98%

H <sub>2</sub> SO <sub>4</sub> Molecular Weight: 98,08 CAS: 7664-93-9 EEC-N: 231-639-5	<b>Classification transport</b> ONU: 1830 Transport Hazard class: 8 Packing group II		<b>Danger</b> H290-H314 P280-P301+P330+P331-P303+P361+P353- P304+P340-P310a-P305+P351+P338
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## Sulfuric acid 93-98% > RS - Ultrapure - For trace analysis at ppt level

**RS**

Description .....	Clear colourless liquid	Mg .....	≤ 50 ppt	Dy .....	≤ 10 ppt	Rb .....	≤ 10 ppt
Identification .....	Positive	Mn .....	≤ 10 ppt	Er .....	≤ 10 ppt	Sm .....	≤ 10 ppt
Ag .....	≤ 50 ppt	Mo .....	≤ 10 ppt	Eu .....	≤ 10 ppt	Sc .....	≤ 10 ppt
Al .....	≤ 50 ppt	Na .....	≤ 10 ppt	Gd .....	≤ 10 ppt	Se .....	≤ 500 ppt
As .....	≤ 500 ppt	Ni .....	≤ 50 ppt	Ga .....	≤ 10 ppt	Te .....	≤ 50 ppt
Ba .....	≤ 10 ppt	Pb .....	≤ 10 ppt	Ge .....	≤ 100 ppt	Tb .....	≤ 10 ppt
Be .....	≤ 10 ppt	Sn .....	≤ 50 ppt	Hf .....	≤ 10 ppt	Tl .....	≤ 10 ppt
Bi .....	≤ 10 ppt	Sr .....	≤ 10 ppt	Ho .....	≤ 10 ppt	Tm .....	≤ 10 ppt
Ca .....	≤ 50 ppt	Ti .....	≤ 50 ppt	In .....	≤ 10 ppt	W .....	≤ 10 ppt
Cd .....	≤ 10 ppt	V .....	≤ 10 ppt	La .....	≤ 10 ppt	U .....	≤ 10 ppt
Co .....	≤ 10 ppt	Zn .....	≤ 50 ppt	Li .....	≤ 10 ppt	Yb .....	≤ 10 ppt
Cr .....	≤ 10 ppt	Assay (acidimetric) .....	93 ÷ 98 %	Lu .....	≤ 10 ppt	Y .....	≤ 10 ppt
Cu .....	≤ 10 ppt	Th .....	≤ 10 ppt	Nd .....	≤ 10 ppt	Zr .....	≤ 10 ppt
Fe .....	≤ 50 ppt	Sb .....	≤ 50 ppt	Nb .....	≤ 10 ppt		
Hg .....	≤ 100 ppt	Ce .....	≤ 10 ppt	Pr .....	≤ 10 ppt		
K .....	≤ 50 ppt	Cs .....	≤ 10 ppt	Rh .....	≤ 50 ppt		

Code	Size	Packaging	Notes
410351	500 ml	Plastic bottle	

## Sulfuric acid 93-98% > RS - Superpure - For trace analysis at ppb level

**RS**

Description .....	Clear liquid	Mn .....	≤ 0.5 ppb	Cs .....	≤ 0.1 ppb	Sm .....	≤ 0.1 ppb
Identification .....	Positive	Mo .....	≤ 0.5 ppb	Dy .....	≤ 0.1 ppb	Sc .....	≤ 0.1 ppb
Ag .....	≤ 1 ppb	Na .....	≤ 1 ppb	Er .....	≤ 0.1 ppb	Te .....	≤ 0.1 ppb
Al .....	≤ 1 ppb	Ni .....	≤ 0.5 ppb	Eu .....	≤ 0.1 ppb	Tl .....	≤ 0.1 ppb
As .....	≤ 0.5 ppb	Pb .....	≤ 0.1 ppb	Gd .....	≤ 0.1 ppb	Tm .....	≤ 0.1 ppb
Ba .....	≤ 0.1 ppb	Sb .....	≤ 1 ppb	Ga .....	≤ 0.1 ppb	W .....	≤ 0.5 ppb
Be .....	≤ 0.1 ppb	Se .....	≤ 10 ppb	Ge .....	≤ 1 ppb	U .....	≤ 0.1 ppb
Bi .....	≤ 0.1 ppb	Sn .....	≤ 1 ppb	Hf .....	≤ 0.1 ppb	Yb .....	≤ 0.1 ppb
Ca .....	≤ 1 ppb	Sr .....	≤ 0.5 ppb	Ho .....	≤ 0.1 ppb	Y .....	≤ 0.1 ppb
Cd .....	≤ 0.5 ppb	Ti .....	≤ 1 ppb	In .....	≤ 0.1 ppb	Tb .....	≤ 0.1 ppb
Co .....	≤ 0.5 ppb	V .....	≤ 0.5 ppb	La .....	≤ 0.1 ppb	Chloride .....	≤ 0.7 ppm
Cr .....	≤ 0.5 ppb	Zn .....	≤ 1 ppb	Lu .....	≤ 0.1 ppb	Nitrate .....	≤ 0.2 ppm
Cu .....	≤ 0.5 ppb	Zr .....	≤ 0.5 ppb	Nd .....	≤ 0.1 ppb	Total phosphorus .....	≤ 0.05 ppm
Hg .....	≤ 0.1 ppb	Assay (acidimetric) .....	93 ÷ 98 %	Nb .....	≤ 0.1 ppb	Reducing substances KMnO4 .....	≤ 20 ppm
K .....	≤ 1 ppb	Th .....	≤ 0.1 ppb	Pr .....	≤ 0.1 ppb		
Li .....	≤ 0.5 ppb	Colour (APHA) .....	≤ 10	Rh .....	≤ 0.5 ppb		
Mg .....	≤ 1 ppb	Ce .....	≤ 0.1 ppb	Rb .....	≤ 0.5 ppb		

Code	Size	Packaging	Notes
410405	500 ml	Plastic bottle	
410406	1 l	Plastic bottle	
410407	2.5 l	Plastic bottle	



## Sulfuric acid 90%

• Acido solforico 90% • Acide sulfurique 90% • Acido sulfúrico 90% • Schwefelsäure 90%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9  
EEC-N: 231-639-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

## Sulfuric acid 90% > RS - For analysis according to Gerber

**RS**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.815 - 1.825    Assay (acidimetric) ..... 90 - 92 %

Code	Size	Packaging	Notes
410391	1 l	Plastic bottle	
410394	2.5 l	Glass bottle	



## Sulfuric acid 85%

• Acido solforico 85% • Acide sulfurique 85% • Acido sulfúrico 85% • Schwefelsäure 85%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

## Sulfuric acid 85% > RS - For analysis

**RS**

Density d20/4 ..... 1.774 - 1.783    Sulfuric acid content ..... 84.5 - 85.5 %

Code	Size	Packaging	Notes
PS0433/15	1 l	Plastic bottle	

**Sulfuric acid 72%**

• Acido solforico 72% • Acide sulfurique 72% • Acido sulfúrico 72% • Schwefelsäure 72%

Molecular Weight: 98,08  
CAS: 7664-93-9**Classification transport**ONU: 1830  
Transport Hazard class: 8  
Packing group II**Danger**H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Sulfuric acid 72% > RS - For agroalimentary analysis****RS**

Description ..... Clear colourless liquid    Colour ..... ≤ 10 APHA    Density at 20°C ..... 1.629 ÷ 1.639    Assay ..... 71.50 ÷ 72.50 %

Code	Size	Packaging	Notes
502771	2.5 l	Glass bottle	

**Sulfuric acid 69%**

• Acido solforico 69% • Acide sulfurique 69% • Acido sulfúrico 69% • Schwefelsäure 69%

Molecular Weight: 98,08  
CAS: 7664-93-9**Classification transport**ONU: 1830  
Transport Hazard class: 8  
Packing group II**Danger**H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Sulfuric acid 69% > RS - For milk analysis****RS**

Clear, colourless solution ..... Conform    Sulfuric acid content ..... 68.0 - 70.0 %    Density d20/4 ..... 1.587 - 1.611

Code	Size	Packaging	Notes
PS0893/21	2.5 l	Glass bottle	

**Sulfuric acid 62%**

• Acido solforico 62% • Acide sulfurique 62% • Acido sulfúrico 62% • Schwefelsäure 62%

Molecular Weight: 98,08  
CAS: 7664-93-9**Classification transport**ONU: 1830  
Transport Hazard class: 8  
Packing group II**Danger**H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Sulfuric acid 62% > RS - For milk analysis****RS**

Clear, colourless solution ..... Conform    Sulfuric acid content ..... 61.0 - 63.0 %    Density d20/4 ..... 1.509 - 1.531

Code	Size	Packaging	Notes
PS0894/21	2.5 l	Glass bottle	

**Sulfuric acid 50%**

• Acido solforico 50% • Acide sulfurique 50% • Acido sulfúrico 50% • Schwefelsäure 50%

Molecular Weight: 98,08  
CAS: 7664-93-9**Classification transport**ONU: 2796  
Transport Hazard class: 8  
Packing group II**Danger**H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Sulfuric acid 50% > RE - Pure****RE**Description ..... Clear colourless liquid    Density at 20° C ..... 1.385 ÷ 1.405    Assay (acidimetric) ..... 49.0 ÷ 51.0 %  
Identification ..... Positive    Density at 20°C ..... 1.385 ÷ 1.405

Code	Size	Packaging	Notes
E306702	1 l	Bottle	
528541	5 l	Plastic tank	
E306704	35 kg	Plastic tank	





## Sulfuric acid 35% (30°Be)

• Acido solforico 35% (30°Bé) • Acide sulfurique 35% (30°Be) • Acido sulfúrico 35% (30°Bé) • Schwefelsäure 35% (30°Be)

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sulfuric acid 35% (30°Be) > RE - Pure

RE

Description ..... Clear or opaline colourless liquid    Density at 20° C ..... 1.252 - 1.260    Assay ..... 34.0 - 35.0 %

Code	Size	Packaging	Notes
307001000	30 kg	Plastic tank	



## Sulfuric acid 30%

• Acido solforico 30% • Acide sulfurique 30% • Acido sulfúrico 30% • Schwefelsäure 30%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sulfuric acid 30% > RS - For analysis

RS

Density d20/4 ..... 1.206 - 1.230    H2SO4 content ..... 29 - 31 %

Code	Size	Packaging	Notes
PS0009/15	1 l	Plastic bottle	



## Sulfuric acid 25%

• Acido solforico 25% • Acide sulfurique 25% • Acido sulfúrico 25% • Schwefelsäure 25%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sulfuric acid 25% > RE - Pure

RE

Density d20/4 ..... 1.174 - 1.182    Sulfuric acid content ..... 24.5 - 25.5 %

Code	Size	Packaging	Notes
504562	1 l	Glass bottle	
PS0212/21	2.5 l	Glass bottle	



## Sulfuric acid 20%

• Acido solforico 20% • Acide sulfurique 20% • Acido sulfúrico 20% • Schwefelsäure 20%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Sulfuric acid 20% > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Density at 20° C ..... 1.136 - 1.158    Assay ..... 20 - 22 %

Code	Size	Packaging	Notes
410511000	1 l	Plastic bottle	
410516	20 kg	Plastic drum	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly**

**Sulfuric acid 10% v/v**

• Acido solforico 10% v/v • Acide sulfurique 10% v/v • Acido sulfúrico 10% V/V • Schwefelsäure 10% v/v



Molecular Weight: 98,08

CAS: 7664-93-9

**Classification transport**

ONU: 2796

Transport Hazard class: 8

Packing group II

**Danger**

H290-H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Sulfuric acid 10% v/v > RPE - For analysis****RPE**

Density at 20°C ..... 1.12 - 1.14

Code	Size	Packaging	Notes
502591	1 l	Bottle	

**Sulfuric acid 4 mol/l (8N)**

• Acido solforico 4 mol/l (8N) • Acide sulfurique 4 mol/l (8N) • Acido sulfúrico 4 mol/l (8N) • Schwefelsäure 4 mol/l (8N)



Molecular Weight: 98,08

CAS: 7664-93-9

**Classification transport**

ONU: 2796

Transport Hazard class: 8

Packing group II

**Danger**

H290-H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Sulfuric acid 4 mol/l (8N) > RS - For environmental analysis (COD determination)****RS**

Description ..... Clear colourless liquid Assay ..... 7.984 - 8.016 N

Code	Size	Packaging	Notes
526741	1 l	Bottle	

**Sulfuric acid 2.5 mol/l (5N)**

• Acido solforico 2.5 mol/l (5N) • Acide sulfurique 2.5 mol/l (5N) • Acido sulfúrico 2.5 mol/l (5N) • Schwefelsäure 2.5 mol/l (5N)



Molecular Weight: 98,08

CAS: 7664-93-9

**Classification transport**

ONU: 2796

Transport Hazard class: 8

Packing group II

**Danger**

H290-H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Sulfuric acid 2.5 mol/l (5N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 4.995 - 5.005 N

Code	Size	Packaging	Notes
P3240015	1 l	Plastic bottle	

**Sulfuric acid 1 mol/l (2N)**

• Acido solforico 1 mol/l (2N) • Acide sulfurique 1 mol/l (2N) • Acido sulfúrico 1 mol/l (2N) • Schwefelsäure 1 mol/l (2N)



Molecular Weight: 98,08

CAS: 7664-93-9

**Classification transport**

ONU: 2796

Transport Hazard class: 8

Packing group II

**Warning**

H290-H315-H319

P264-P280a-P305+P351+P338-P332+P313-

P362+P364-P337+P313

**Sulfuric acid 1 mol/l (2N) > RS - For analysis according to USP****RS**

Code	Size	Packaging	Notes
617000281	1 l	Bottle	

## Sulfuric acid 1 mol/l (2N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 723 ..... e

Code	Size	Packaging	Notes
410547000	1 l	Plastic bottle	Certified with NIST traceability
410548000	10 l	Plastic tank	Certified with NIST traceability

**98.06 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric solution ready-to-use**


## Sulfuric acid 0.5 mol/l (1N)

• Acido solforico 0.5 mol/l (1N) • Acide sulfurique 0,5 mol/l (1N) • Acido sulfúrico 0.5 mol/l (1N) • Schwefelsäure 0.5 mol/l (1N)

H<sub>2</sub>SO<sub>4</sub> HEU210  
 Molecular Weight: 98,08  
 CAS: 7664-93-9

## Sulfuric acid 0.5 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613007800	1 l	Plastic bottle	Ref Ph.Eur 3007800

## Sulfuric acid 0.5 mol/l (1N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 723 ..... e

Code	Size	Packaging	Notes
410577000	1 l	Plastic bottle	Certified with NIST traceability
410572000	5 l	Kubidos	Certified with NIST traceability
410575000	5 l	Plastic tank	Certified with NIST traceability
410571000	10 l	Kubidos	Certified with NIST traceability

**49.03 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric solution ready-to-use**

## Sulfuric acid 0.5 mol/l (1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
410591		Plastic ampoule	Volume: 165 ml

**49,03 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 1 N**


## Sulfuric acid 0.33 mol/l (2N/3)

• Acido solforico 0.33 mol/l (2N/3) • Acide sulfurique 0.33 mol/l (2N/3) • Acido sulfúrico 0.33 mol/l (2N/3) • Schwefelsäure 0.33 mol/l (2N/3)

H<sub>2</sub>SO<sub>4</sub> HEU210  
 Molecular Weight: 98,08  
 CAS: 7664-93-9

## Sulfuric acid 0.33 mol/l (2N/3) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.6653 - 0.6680 N

Code	Size	Packaging	Notes
410634	1 l	Plastic bottle	

**32,363 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric solution ready-to-use. Content is guaranteed for standardized volumes at 20 °C**

**Sulfuric acid 0.26 mol/l (0.52N)**

• Acido solforico 0.26 mol/l (0.52N) • Acide sulfurique 0.26 mol/l (0.52N) • Acido sulfúrico 0.26 mol/l (0.52N) • Schwefelsäure 0.26 mol/l (0.52N)

H<sub>2</sub>SO<sub>4</sub>

HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

**Sulfuric acid 0.26 mol/l (0.52N) > RS - For agroalimentary analysis****RS**

Description ..... Clear colourless liquid Aspect ..... Conform Assay ..... 0.515 ÷ 0.525 N

Code	Size	Packaging	Notes
502202	5 l	Plastic tank	

**Sulfuric acid 0.25 mol/l (0.5N)**

• Acido solforico 0.25 mol/l (0.5N) • Acide sulfurique 0.25 mol/l (0.5N) • Acido sulfúrico 0.25 mol/l (0.5N) • Schwefelsäure 0.25 mol/l (0.5N)

H<sub>2</sub>SO<sub>4</sub>

HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

**Sulfuric acid 0.25 mol/l (0.5N) > RPE - For analysis****RPE**Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 723 ..... e  
Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
410667000	1 l	Plastic bottle	Certified with NIST traceability
410663000	5 l	Kubidos	Certified with NIST traceability
410662000	10 l	Kubidos	Certified with NIST traceability

**24,52 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric solution ready-to-use****Sulfuric acid 0.25 mol/l (0.5N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
410681		Plastic ampoule	Volume: 55 ml

**24,52 g H<sub>2</sub>SO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,5 N****Sulfuric acid 0.166 mol/l (0.333N)**

• Acido solforico 0.166 mol/l (0.333N) • Acide sulfurique 0.166 mol/l (0.333N) • Acido sulfúrico 0.166 mol/l (0.333N) • Schwefelsäure 0.166 mol/l (0.333N)

H<sub>2</sub>SO<sub>4</sub>

HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

**Sulfuric acid 0.166 mol/l (0.333N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.3331 - 0.3337 N

Code	Size	Packaging	Notes
PS0217/15	1 l	Plastic bottle	



## Sulfuric acid 0.13 mol/l (0.26N)

• Acido solforico 0.13 mol/l (0.26N) • Acide sulfurique 0.13 mol/l (0.26N) • Acido sulfúrico 0.13 mol/l (0.26N) • Schwefelsäure 0.13 mol/l (0.26N)



HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

### Sulfuric acid 0.13 mol/l (0.26N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 0.255 ÷ 0.265 N

Code	Size	Packaging	Notes
502651	5 l	Plastic tank	

**Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed**



## Sulfuric acid 0.125 mol/l (0.25N)

• Acido solforico 0.125 mol/l (0.25N) • Acide sulfurique 0.125 mol/l (0.25N) • Acido sulfúrico 0.125 mol/l (0.25N) • Schwefelsäure 0.125 mol/l (0.25N)



HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

### Sulfuric acid 0.125 mol/l (0.25N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.2495 - 0.2505 N

Code	Size	Packaging	Notes
PS0445/22	5 l	Plastic tank	



## Sulfuric acid 0.1 mol/l (0.2N)

• Acido solforico 0.1 mol/l (0.2N) • Acide sulfurique 0.1 mol/l (0.2N) • Acido sulfúrico 0.1 mol/l (0.2N) • Schwefelsäure 0.1 mol/l (0.2N)



HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

### Sulfuric acid 0.1 mol/l (0.2N) > RS - For agroalimentary analysis

RS

Description ..... Clear liquid Aspect ..... Conform Assay ..... 0.195 ÷ 0.205 N

Code	Size	Packaging	Notes
502100000	1 l	Plastic bottle	



## Sulfuric acid 0.05 mol/l (0.1N)

• Acido solforico 0.05 mol/l (0.1N) • Acide sulfurique 0.05 mol/l (0.1N) • Acido sulfúrico 0.05 mol/l (0.1N) • Schwefelsäure 0.05 mol/l (0.1N)



HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

### Sulfuric acid 0.05 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613008001	500 ml	Plastic bottle	Ref Ph.Eur 3008000
613008000	1 l	Plastic bottle	Ref Ph.Eur 3008000

**Sulfuric acid 0.05 mol/l (0.1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 723.....e

Code	Size	Packaging	Notes
410717000	1 l	Plastic bottle	Certified with NIST traceability
410712000	5 l	Kubidos	Certified with NIST traceability
410711000	10 l	Kubidos	Certified with NIST traceability
410715000	10 l	Plastic tank	Certified with NIST traceability
410714000	20 l	Plastic tank	Certified with NIST traceability

**4.904 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric solution ready-to-use****Sulfuric acid 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ± 1.005

Code	Size	Packaging	Notes
410731		Plastic ampoule	Volume: 55 ml

**4,904 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N****Sulfuric acid 0.025 mol/l (0.05N)**

• Acido solforico 0.025 mol/l (0.05N) • Acide sulfurique 0.025 mol/l (0.05N) • Acido sulfúrico 0.025 mol/l (0.05N) • Schwefelsäure 0.025 mol/l (0.05N)

H <sub>2</sub> SO <sub>4</sub>	HEU210
Molecular Weight: 98,08	
CAS: 7664-93-9	

**Sulfuric acid 0.025 mol/l (0.05N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.0499 - 0.0501 N

Code	Size	Packaging	Notes
PS0016/96	10 l	Kubidos	

**Sulfuric acid 0.02 mol/l (0.04N)**

• Acido solforico 0.02 mol/l (0.04N) • Acide sulfurique 0.02 mol/l (0.04N) • Acido sulfúrico 0.02 mol/l (0.04N) • Schwefelsäure 0.02 mol/l (0.04N)

H <sub>2</sub> SO <sub>4</sub>	HEU210
Molecular Weight: 98,08	
CAS: 7664-93-9	

**Sulfuric acid 0.02 mol/l (0.04N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.03992 - 0.04008 N

Code	Size	Packaging	Notes
PS0219/15	1 l	Plastic bottle	
PS0219/95	5 l	Kubidos	
PS0219/96	10 l	Kubidos	

**Sulfuric acid 0.01 mol/l (0.02N)**

• Acido solforico 0.01 mol/l (0.02N) • Acide sulfurique 0.01 mol/l (0.02N) • Acido sulfúrico 0.01 mol/l (0.02N) • Schwefelsäure 0.01 mol/l (0.02N)

H <sub>2</sub> SO <sub>4</sub>	HEU210
Molecular Weight: 98,08	
CAS: 7664-93-9	

**Sulfuric acid 0.01 mol/l (0.02N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.01996 - 0.02004 N

Code	Size	Packaging	Notes
PS0047/15	1 l	Plastic bottle	





## Sulfuric acid 0.005 mol/l (0.01N)

• Acido solforico 0.005 mol/l (0.01N) • Acide sulfurique 0.005 mol/l (0.01N) • Acido sulfúrico 0.005 mol/l (0.01N) • Schwefelsäure 0.005 mol/l (0.01N)



HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

### Sulfuric acid 0.005 mol/l (0.01N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0026/95	5 l	Kubidos	

### Sulfuric acid 0.005 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
410791		Plastic ampoule	Volume: 55 ml

**0,490 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**



## Sulfuric acid 0.0025 mol/l (0.005N)

• Acido solforico 0.0025 mol/l (0.005N) • Acide sulfurique 0.0025 mol/l (0.005N) • Acido sulfúrico 0.0025 mol/l (0.005N)  
• Schwefelsäure 0.0025 mol/l (0.005N)



Molecular Weight: 98,08

CAS: 7664-93-9

### Sulfuric acid 0.0025 mol/l (0.005N) > RS - For analysis

RS

Assay (potentiometry) ..... 0.00495 - 0.00505 N

Code	Size	Packaging	Notes
424111	10 l	Kubidos	

**Content is guaranteed for standardized volumes at 20 °C**



## Sulfuric acid with 10 g/l Silver sulfate

• Argento solfato 10 g/l in acido solforico • Acide sulfurique à 10 g/l d'argent sulfate • Acido sulfúrico con 10 g/l de plata sulfato  
• Schwefelsäure 10g/l Silbersulfat



Molecular Weight: 98,08

CAS: 7664-93-9

#### Classification transport

ONU: 1830

Transport Hazard class: 8

Packing group II



#### Danger

H290-H314-H412

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

### Sulfuric acid with 10 g/l Silver sulfate > RS - For environmental analysis (COD determination)

RS

Assay ..... 9.0 ÷ 11.0 g/l

Code	Size	Packaging	Notes
526605	1 l	Glass bottle	
526606	2.5 l	Glass bottle	

**According to NF T90101 of 02/2001**

**Sulfuric acid with 6.6 g/l Silver sulfate**

• Argento solfato 6.6 g/l in acido solforico • Acide sulfurique à 6.6 g/l d'argent sulfate • Acido sulfúrico con 6.6 g/l de plata sulfato  
• Schwefelsäure 6.6 g/l Silbersulfat

H<sub>2</sub>SO<sub>4</sub>

Molecular Weight: 98,08

CAS: 7664-93-9

**Classification transport**

ONU: 1830

Transport Hazard class: 8

Packing group II

**Danger**

H290-H314-H412

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Sulfuric acid with 6.6 g/l Silver sulfate > RS - For environmental analysis (COD determination)****RS**

Assay ..... 6.0 ÷ 7.2 g/l

Code	Size	Packaging	Notes
526602	2.5 l	Glass bottle	

**According to NF T90101 of 02/2001****Sulfuric acid, dilute**

• Acido solforico, diluito • Acide sulfurique diluée • Acido sulfúrico, diluido • Verdünnte Schwefelsäure

H<sub>2</sub>SO<sub>4</sub>

Molecular Weight: 98,08

CAS: 7664-93-9

**Classification transport**

ONU: 2796

Transport Hazard class: 8

Packing group II

**Warning**

H290-H315-H319

P264-P280a-P305+P351+P338-P332+P313-

P362+P364-P337+P313

**Sulfuric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611086804	1 l	Plastic bottle	A 98 g/l solution Ref Ph.Eur 1086804

**Sulfuric acid d=1.820**

• Acido solforico d=1,820 • Acide sulfurique d=1,820 • Acido sulfúrico d=1,820 • Schwefelsäure d=1.820

H<sub>2</sub>SO<sub>4</sub>

Molecular Weight: 98,08

CAS: 7664-93-9

EEC-N: 231-639-5

**Classification transport**

ONU: 1830

Transport Hazard class: 8

Packing group II

**Danger**

H290-H314

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338

**Sulfuric acid d=1.820 > RS - For agroalimentary analysis****RS**

Description ..... Clear colourless liquid Colour (APHA) ..... ≤ 10 APHA Density at 20°C ..... 1.815 ÷ 1.825

Code	Size	Packaging	Notes
502020	5 l	Plastic tank	

**According to NF V04-263 and V04-210**



## Talc

• Talco • Talc • Talco • Talkum

Synonym:  
Hydrous magnesium silicate

$3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$   
Molecular Weight: 379,29  
CAS: 14807-96-6  
EEC-N: 238-877-9

### Talc > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description .....	White powder	Al .....	≤ 2.0 %	Pb .....	≤ 10 ppm	TAMC .....	≤ 100 CFU/g
Identification .....	Positive	Ca .....	≤ 0.90 %	Loss on ignition .....	≤ 7.0 %	TYMC .....	≤ 50 CFU/g
Acidity or alkalinity .....	Conform	Fe .....	≤ 0.25 %	Asbestos .....	Absent		
Sostanze idrosolubili .....	≤ 0.1 %	Mg .....	17.0 ÷ 19.5 %	Microbial tests			

Code	Size	Packaging	Notes
382107	1 kg	Plastic bottle	
382109	5 kg	Plastic tank	
382105	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Tannic acid

• Acido tannico • Acide tannique • Acido tânico • Gerbsäure

Synonym:  
Gallotannin

$\text{C}_{76}\text{H}_{52}\text{O}_{46}$   
Molecular Weight: 1701,23  
CAS: 1401-55-4  
EEC-N: 215-753-2



### Warning

H302-H412  
P264-P270-P273-P301+P312a-P330-P501a

### Tannic acid > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU

ERBApharm

Description .....	Yellowish powder	Loss on drying .....	≤ 12.0 %	Resins .....	Conform Ph.Eur.
Identification .....	Positive	Sulphated ash .....	≤ 0.1 %	Heavy metals (as Pb) .....	≤ 40 ppm
Appearance of solution .....	Conform Ph.Eur.	Dextrins, gum, salts, sugars .....	Conform Ph.Eur.	As .....	≤ 3 ppm

Code	Size	Packaging	Notes
307157	1 kg	Bag	
307152	5 kg	Plastic bucket	
307153	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

### Tannic acid > RE - Pure

RE

Description .....	Brown powder	Water solubility .....	Conform	Water .....	< 7 %	Assay (gravimetric) .....	> 94 % s.s.
Identification .....	Positive	Alcohol solubility .....	Conform	Sulphated ash .....	< 0.3 %		

Code	Size	Packaging	Notes
411074	100 g	Plastic bottle	
411076	500 g	Plastic bottle	



## Tantalum standard solution

• Tantalio standard soluzione • Tantale solution standard • Tántalo, solución patrón • Tantal-Standardlösung

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group III



### Tantalum standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505872	100 ml	Plastic bottle	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid
505875	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Tantalum standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503961	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
503963	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
503965	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrofluoric acid and nitric acid
503967	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrofluoric acid and nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Tantalum standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507761	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507517	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## L(+) Tartaric Acid

• Acido L(+)-tartarico • Acide L(+)-tartrique • Acido L(+)-tartárico • L(+)-Weinsäure

HOOC(CHOH)<sub>2</sub>COOH  
Molecular Weight: 150,09  
CAS: 87-69-4  
EEC-N: 201-766-0



Danger

H318

P280i-P305+P351+P338-P310a

## L(+) Tartaric Acid &gt; RPE - For analysis - ACS - ISO

RPE

Description .....	White crystalline powder	Residue on ignition.....	≤200 ppm	Oxalate .....	Conform	Fe .....	≤5 ppm
Identification .....	Positive	Chloride.....	≤10 ppm	Sulfur compounds (as SO <sub>4</sub> ).....	≤20 ppm	Assay (acidimetric) .....	≥99.0 %
Water-insoluble matter .....	≤50 ppm	Phosphate .....	≤10 ppm	Heavy metals (Pb).....	≤5 ppm		

Code	Size	Packaging	Notes
411125	250 g	Plastic bottle	
411127	1 kg	Plastic bottle	
411121	25 kg	Plastic bucket	

## L(+) Tartaric Acid &gt; ERBApharm - According to pharmacopoeia: DAB-BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBApharm

Description .....	White crystalline powder	Loss on drying .....	≤0.2 %	Sulphate .....	≤150 ppm	Assay (acidimetric) .....	99.7 ÷ 100.5 % s.s.
Identification .....	Positive	Sulphated ash .....	≤0.1 %	Heavy metals (Pb).....	≤10 ppm	Residual solvents (Current ICH).....	Conform
Appearance of solution .....	Conform Ph.Eur.	Oxalic acid .....	≤360 ppm	Calcium .....	≤200 ppm		
Specific optical rotation... +12.0 ÷ +12.8 °		Chloride.....	≤100 ppm	Origin (BSE/TSE).....	Vegetable		

Code	Size	Packaging	Notes
307357	1 kg	Plastic bottle	
307359	5 kg	Plastic tank	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade

## L(+) Tartaric Acid &gt; ERBApharm - Crystals - According to pharmacopoeia: Ph.Eur.-NF-FU-Ph.Franc.-BP-

ERBApharm

Description .....	Colourless crystals	Specific optical rotation... +12.0 ÷ +12.8 °		Chloride.....	≤ 100 ppm	Assay (acidimetric) .....	99.7 ÷ 100.5 % s.s.
Identification .....	Positive	Loss on drying .....	≤ 0.2 %	Sulphate .....	≤ 150 ppm	Origin (BSE/TSE).....	Vegetable
Appearance of solution .....	Conform Ph.Eur.	Sulphated ash .....	≤ 0.1 %	Heavy metals (Pb).....	≤ 10 ppm		
Residual solvents (Current ICH).....	Conform	Oxalic acid .....	≤ 360 ppm	Calcium .....	≤ 200 ppm		

Code	Size	Packaging	Notes
307307	1 kg	Plastic bottle	
307309	5 kg	Plastic tank	
307301	25 kg	Plastic bucket	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade



## L(+)- Tartaric acid solution 20% in water

• Acido L(+)-tartarico soluzione 20% in acqua • Acide L(+)-tartrique 20% • Acido L(+)-tartárico solución 20% en agua • L (+) Weinsäure 20%

HOOC(CHOH)<sub>2</sub>COOH  
Molecular Weight: 150,09  
CAS: 87-69-4



**Danger**  
H318  
P280i-P305+P351+P338-P310a

### L(+)- Tartaric acid solution 20% in water > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Density at 15° C ..... ~ 1.10 Assay (acidimetric) ..... 20 ÷ 21 %

Code	Size	Packaging	Notes
E411131	1 l	Bottle	

## L-(+)-Tartaric acid diammonium salt ▶ Ammonium L(+)-tartrate



## Tartrazine

• Tartrazina • Tartrazine • Tartracina • Tartrazin

Synonym:  
Acid Yellow 23

C<sub>16</sub>H<sub>9</sub>N<sub>4</sub>Na<sub>3</sub>O<sub>9</sub>S<sub>2</sub>  
Molecular Weight: 534,39  
CAS: 1934-21-0  
EEC-N: 217-699-5

### Tartrazine > RS - For microscopy - C.I. 19140

**RS**

Description ..... Orange powder Identification ..... Positive Water insoluble substances ..... ≤ 0.2 % Assay (oxidimetric) ..... ≥85 %

Code	Size	Packaging	Notes
486903	50 g	Glass bottle	

**Dye for histology**



## Tauber reagent

• Tauber reattivo • Réactif de Tauber • Tauber reactivo • Tauber-Reagenz

HEU210

### Tauber reagent > RS - For microscopy

**RS**

Description ..... Yellow clear liquid Identification ..... Positive Sensibilità acido ascorbico ..... Conform

Code	Size	Packaging	Notes
490422	500 ml	Glass bottle	

## TCA ▶ Trichloroacetic acid



## Tellurium lumps

• Tellurio pezzi • Tellure en morceaux • Teluro trozos • Tellur in Stücken

Te  
Molecular Weight: 127,61  
CAS: 13494-80-9  
EEC-N: 236-813-4



**Danger**  
H332-H319-H360-H335-HA26  
P261-P271-P280-P304+P340-P305+P351+P338-P403+P233

### Tellurium lumps > RPE - For analysis

**RPE**

Description ..... Pezzi lucenti Identification ..... Positive Assay (oxidimetric) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
487002	25 g	Glass bottle	

**Tellurium powder**

• Tellurio polvere • Tellure en poudre • Teluro polvo • Tellurpulver

Te

Molecular Weight: 127,6

CAS: 13494-80-9

EEC-N: 236-813-4

**Danger**

H332-H319-H360-H335-HA26

P261-P271-P280-P304+P340-P305+P351+P338-P403+P233

**Tellurium powder > RPE - For analysis****RPE**

Description .....Black powder Identification ..... Positive Assay (oxidimetric) .....≥99 %

Code	Size	Packaging	Notes
487023	50 g	Glass bottle	

**Tellurium standard solution**

• Tellurio standard soluzione • Tellurium solution standard • Teluro, solución patrón • Tellur-Standardlösung

**Classification transport**

ONU: 3264

Transport Hazard class: 8

Packing group II

**Danger**

H290-H314

P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

**Tellurium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505887	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505888	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Tellurium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503981	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503983	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503985	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
503987	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Tellurium standard solution > RS - Standard solution for AAS****RS**

Code	Size	Packaging	Notes
507762	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507518	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**





## Terbium standard solution

• Terbio standard soluzione • Terbium solution standard • Terbio, solución patrón • Terbium-Standardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Danger

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Terbium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505882	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505885	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505883	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Terbium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503971	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503973	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
503975	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
503977	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Tetrabutylammonium bisulfate

• Tetrabutylammonio bisolfato • Tetrabutylammonium bisulfate • Tetrabutylamonio bisulfato • Tetrabutylammonium bisulfate

$C_{16}H_{37}NO_4S$   
Molecular Weight: 339,53  
CAS: 32503-27-8  
EEC-N: 251-068-5



### Warning

H302-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### Tetrabutylammonium bisulfate > RS - For ion pair chromatography

RS

Absorbance UV curve (10%)  
A210nm (1M) ..... ≤ 0.06 AU  
A220nm (1M) ..... ≤ 0.05 AU  
A230nm (1M) ..... ≤ 0.03 AU  
A260nm (1M) ..... ≤ 0.02 AU  
A500nm (1M) ..... ≤ 0.02 AU  
Assay ..... ≥ 99.0 %

Code	Size	Packaging	Notes
405971	25 g	Plastic bottle	
405972	100 g	Plastic bottle	

### Tetrabutylammonium bisulfate > RPE - For analysis

RPE

Description ..... White crystals  
Assay (acidimetric) ..... ≥ 97.5 %  
Water (K.F.) ..... ≤ 0.15 %  
Identification ..... Positive  
Melting point ..... 168 ± 172 °C

Code	Size	Packaging	Notes
487101	250 g	Plastic bottle	

**Tetrabutylammonium bromide**

• Tetrabutylammonio bromuro • Tétrabutylammonium bromure • Tetrabutylamonio bromuro • Tetrabutylammoniumbromid

 $(C_4H_9)_4NBr$   
Molecular Weight: 322,37  
CAS: 1643-19-2  
EEC-N: 216-699-2**Warning**H302  
P264-P270-P301+P312a-P330-P501a**Tetrabutylammonium bromide > RS - For polarography****RS**

Description ..... White crystals Identification ..... Positive Melting point ..... 100÷104 °C

Code	Size	Packaging	Notes
487051	10 g	Glass bottle	

**Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N)**• Tetrabutylammonio idrossido soluzione 0.1 mol/l (0.1N) • Tétrabutylammonium hydroxyde 0.1 mol/l (0.1N)  
• Tetrabutylamonio hidróxido solución 0.1 mol/l (0.1N) • Tetrabutylammoniumhydroxid 0.1 mol/l (0.1N) $(C_4H_9)_4NOH$   
Molecular Weight: 259,48  
CAS: 2052-49-5**Classification transport**ONU: 1993  
Transport Hazard class: 3  
Packing group II**Danger**H225-H302-H315-H319-H361d-H371-H336-H373  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P308+P313**Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613008300	1 l	Glass bottle	Ref Ph.Eur 3008300

**Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol**• Tetrabutylammonio idrossido 0.1 mol/l (0.1N) in isopropanolo • Tétrabutylammonium hydroxyde 0.1 mol/l (0.1N) dans propanol-2  
• Tetrabutylamonio hidróxido 0.1 mol/l (0.1N) en 2-propanol • Tetrabutylammoniumhydroxid 0.1 mol/l (0.1N) in 2-Propanol $(C_4H_9)_4NOH$   
Molecular Weight: 259,48  
CAS: 2052-49-5**Classification transport**ONU: 1992  
Transport Hazard class: 3  
Packing group II**Danger**H225-H301-H314-H370-H336  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613008400	1 l	Glass bottle	Ref Ph.Eur 3008400

**Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... ~ 0.80 Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
E487031	500 ml	Glass bottle	

## Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in methanol / propanol-2 (50/50)

- Tetrabutylammonio idrossido 0.1 mol/l (0.1N) in metanolo/propan-2-olo (50/50)
- Tetrabutylammonium hydroxyde 0.1 mol/l (0.1N) dans méthanol / propanol-2 (50/50)
- Tetrabutylammonio hidróxido 0.1 mol/l (0.1N) en metanol / propanol-2 (50/50)
- Tetrabutylammoniumhydroxid 0.1 mol/l (0.1 N) in Methanol / Propanol-2 (50/50)

(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub>NOH  
Molecular Weight: 259,48  
CAS: 2052-49-5

**Classification transport**  
ONU: 1992  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H301-H315-H318-H370-H336  
P210-P241-P280-P301+P310a-P303+P361+P353-P305+P351+P338

### Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in methanol / propanol-2 (50/50) > RPE - For analysis

**RPE**

Assay (potentiometry) ..... 0.0998 - 0.1002 N

Code	Size	Packaging	Notes
P3840016	1 l	Glass bottle	

## Tetrachloroauric(III) acid ► Gold(III) chloride trihydrate

## Tetrachloro-1,4-benzoquinone ► Chloranil

## Tetrachloroethylene

- Tetracloroetilene • Tétrachloroéthylène • Tetracloroetileno • Tetrachlorethylen

Synonym:  
*Perchloroethylene*

C<sub>2</sub>Cl<sub>4</sub>  
Molecular Weight: 165,83  
CAS: 127-18-4  
EEC-N: 204-825-9

**Classification transport**  
ONU: 1897  
Transport Hazard class: 6.1  
Packing group III



**Warning**  
H315-H319-H317-H351-H336-H411  
P261-P271-P280-P304+P340-P305+P351+P338-P403+P233

### Tetrachloroethylene > RS - SPECTROSOL - For optical spectroscopy

**RS**

Clear, colourless liq. appearance ..... Conform	Water content (K.F.) ..... ≤ 100 mg/Kg	Fluorescence (quinine) at 365 nm .. ≤ 2 ppb	UV transmittance at 360 nm ..... ≥ 88 %
Identification ..... Conform	Non volatile residue ..... ≤ 10 mg/Kg	UV transmittance at 300 nm ..... ≥ 75 %	UV transmittance at 400 nm ..... ≥ 97 %
Refractive index at 20°C .. 1.5014 - 1.5074	Assay (GC) ..... ≥ 99.9 %	UV transmittance at 310 nm ..... ≥ 83 %	
Density at 20°C ..... 1.618 - 1.628	Free acid ..... ≤ 0.0003 meq/g	UV transmittance at 320 nm ..... ≥ 88 %	
Boiling point ..... 120.3 - 121.8 °C	Free alkali ..... ≤ 0.00006 meq/g	UV transmittance at 340 nm ..... ≥ 88 %	

Code	Size	Packaging	Notes
P0682716	1 l	Glass bottle	
P0682721	2.5 l	Glass bottle	

### Tetrachloroethylene > RPE - For analysis - Stabilized

**RPE**

Description ..... Clear colourless liquid	Phosgene ..... Conform	Water (K.F.) ..... ≤ 200 ppm	Chloride ..... ≤ 1 ppm
Identification ..... Positive	Ready carbonizable substances ..... Conform	Residue on evaporation ..... ≤ 10 ppm	Assay (GLC) ..... ≥ 99.5 %
Alcohol miscibility ..... Complete	Density at 20 °C ..... 1.618 ÷ 1.628	Acidity (HCl) ..... ≤ 5 ppm	
Benzene miscibility ..... Complete	Refractive index at 20°C .. 1.5014 ÷ 1.5074	Alcalinity (NH <sub>3</sub> ) ..... ≤ 0.5 ppm	
Diethyl ether miscib. .... Complete	Boiling point ..... 120.3 ÷ 121.8 °C	Free chlorine ..... ≤ 0.1 ppm	

Code	Size	Packaging	Notes
449671	1 l	Glass bottle	
449672	2.5 l	Glass bottle	
449673	35 kg	Drum	

### Tetrachloroethylene > RE - Pure - Stabilized

**RE**

Refractive index at 20°C ..... 1.503 - 1.507	Identification ..... Positive	Colour ..... ≤ 10 Hazen	Assay (GLC) ..... ≥ 98 %
Description ..... Clear colourless liquid	Non volatile residue ..... ≤ 50 mg/Kg	Residue on evaporation ..... ≤ 20 ppm	
Water content (K.F.) ..... ≤ 100 mg/Kg	Density at 20 °C ..... 1.618 ÷ 1.628	Assay (GC) ..... ≥ 99 %	

Code	Size	Packaging	Notes
343001	1 l	Glass bottle	
P0680228	5 l	Plastic tank	
343003	40 kg	Metal drum	

**Tetrachloroethane-d2**

• Tetracloroetano-d2 • Tétracloroéthane-d2 • Tetracloroetano-d2 • Tetrachlorethan-d2

Synonym:

- 1,1,2,2-Tetrachloroethane-d2
- 1,2-Dideutero-1,1,2,2-tetrachloroethane

 $C_2D_2Cl_4$ 

Molecular Weight: 169,86

CAS: 33685-54-0

EEC-N: 251-634-1

**Classification transport**

ONU: 1702

Transport Hazard class: 6.1

Packing group II

**Danger**

H310-H330-H411

P284-P304+P340-P310a-P320-P361+P364-P403+P233

**Tetrachloroethane-d2 > RS - For NMR - min 99.5%****RS**

Code	Size	Packaging	Notes
P5435	25 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis****Tetraethylammonium bromide**

• Tetraetilammonio bromuro • Tétraéthylammonium bromure • Tetraetilammonio bromuro • Tetraethylammoniumbromid

Synonym:

TEA Bromide

 $(C_2H_5)_4NBr$ 

Molecular Weight: 210,17

CAS: 71-91-0

EEC-N: 200-769-4

**Tetraethylammonium bromide > RS - For polarography****RS**

Description ..... White powder Identification ..... Positive

Code	Size	Packaging	Notes
487152	25 g	Glass bottle	

**Tetrahydrofuran**

• Tetraidrofurano • Tétrahydrofuranne • Tetraidrofurano • Tetrahydrofuran

 $OCH_2CH_2CH_2CH_2$ 

Molecular Weight: 72,11

CAS: 109-99-9

EEC-N: 203-726-8

**Classification transport**

ONU: 2056

Transport Hazard class: 3

Packing group II

**Danger**

H225-H302-H319-H351-H335-HEU019

P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P403+P233

**Tetrahydrofuran > RS - For HPLC - Isocratic grade - Not stabilized****RS**

Description ..... Clear colourless liquid	Residue on evaporation ..... ≤200 ppm	at 230 nm ..... ≥15 %	at 280 nm ..... ≥92 %
Identification ..... Positive	Peroxide ..... ≤200 ppm	at 240 nm ..... ≥40 %	At 310 nm ..... ≥ 98 %
Density at 20° C ..... 0.885 ÷ 0.893	Acidity ..... ≤0.00035 meq/g	at 250 nm ..... ≥55 %	At 315 nm ..... ≥ 99 %
Refractive index at 20°C. 1.4040 ÷ 1.4100	Alcalinity ..... ≤0.0006 meq/g	at 260 nm ..... ≥70 %	
Boiling point ..... 64.0 ÷ 65.0 ° C	Assay (GLC) ..... ≥99.9 %	at 270 nm ..... ≥85 %	
Water (K.F.) ..... ≤200 ppm	U.V. Transmittance	At 275 nm ..... ≥ 90 %	

Code	Size	Packaging	Notes
412451000	1 l	Glass bottle	
412453000	1 l	Glass bottle PVC coated	
412452000	2.5 l	Glass bottle	

**Tetrahydrofuran > RS - For HPLC - Isocratic grade - Stabilized with BHT****RS**

Clear, colourless liq. appearance ..... Conform	Water content (K.F.) ..... ≤ 200 mg/Kg	UV transmittance at 250 nm ..... ≥ 40 %	Free acid (as CH3COOH) ..... ≤ 20 mg/Kg
Identification ..... Conform	Peroxides (as H2O2) ..... ≤ 50 mg/Kg	UV transmittance at 280 nm ..... ≥ 30 %	Assay (GC) ..... ≥ 99.8 %
Colour ..... ≤ 10 Apha	Stabilizer (ionol) ..... 40 - 60 mg/Kg	UV transmittance at 300 nm ..... ≥ 90 %	Non volatile residue (without stab.) ≤ 5 mg/Kg
Refractive index at 20°C ..... 1.405 - 1.409	UV transmittance at 240 nm ..... ≥ 10 %	UV transmittance at 320 nm ..... ≥ 95 %	

Code	Size	Packaging	Notes
412471	1 l	Glass bottle	
412472	2.5 l	Glass bottle	

## Tetrahydrofuran > RS - For preparative HPLC - Stabilized with BHT

**RS**

Description .....	Clear colourless liquid	Boiling point.....	64.0 ÷ 65.0 ° C	Peroxide .....	≤50 ppm	Stabilizer (IonoI).....	40 ÷ 60 ppm
Identification .....	Positive	Water (K.F.) .....	≤200 ppm	Assay (GLC) .....	≥99.8 %		
Density at 20° C .....	0.885 ÷ 0.893	Residue on evaporation .....	≤5 ppm	U.V. Transmittance			
Refractive index at 20°C.1.4040 ÷ 1.4100		Alcalinity.....	≤0.0002 meq/g	at 320 nm .....	≥90 %		

Code	Size	Packaging	Notes
487352	2.5 l	Glass bottle	

## Tetrahydrofuran > RS - SPECTROSOL - For optical spectroscopy - Not stabilized - Reag.Ph.Eur.

**RS**

Description .....	Clear colourless liquid	Boiling point.....	64.0 ÷ 65.0 ° C	Peroxides (H2O2) .....	≤300 ppm	at 300 nm .....	≥95 %
Colour (APHA) .....	≤10	Water (K.F.) .....	≤200 ppm	Assay (GLC) .....	≥99.9 %	at 320 nm .....	≥98 %
Identification .....	Positive	Residue on evaporation .....	≤5 ppm	U.V. Transmittance		UV Absorbance at 255 nm .....	≤ 0.70 AU
Density at 20° C .....	0.885 ÷ 0.893	Acidity .....	≤0.0005 meq/g	at 240 nm .....	≥30 %	UV Absorbance at 270 nm .....	≤ 0.10 AU
Refractive index at 20°C.1.4040 ÷ 1.4100		Alcalinity.....	≤0.0002 meq/g	at 250 nm .....	≥50 %	UV Absorbance at 310 nm .....	≤ 0.01 AU

Code	Size	Packaging	Notes
487345	1 l	Glass bottle	
487346	2.5 l	Glass bottle	

## Tetrahydrofuran > RS - Anhydrous - For analysis - Stabilized with BHT

**RS**

Refractive index at 20°C.....	1.405 - 1.409	Peroxides (as H2O2).....	≤ 20 mg/Kg	Free acid (as CH3COOH).....	≤ 20 mg/Kg	Density d20/4 .....	0.884 - 0.894
Water content (K.F.) .....	≤ 100 mg/Kg	Stabilizer (IonoI).....	200 - 400 mg/Kg	Clear,colourless liq.appearance.....	Conform	Non volatile residue (without stab.)≤	10 mg/ Kg
Colour .....	≤ 10 Hazen	Assay (GC) .....	≥ 99.9 %	Identification (IR).....	Conform		

Code	Size	Packaging	Notes
P0701010	200 ml	Bottle with septum	
P07010T10	200 ml	Bottle with septum	On molecular sieves 4A
P0701016	1 l	Glass bottle	
P07010T16	1 l	Glass bottle	On molecular sieves 4A
P0701021	2.5 l	Glass bottle	

## Tetrahydrofuran > RPE - For analysis - ACS - Reag.Ph.Eur. - Reag.USP - Stabilized with BHT

**RPE**

Description .....	Clear colourless liquid	Acidity (acetic acid).....	≤20 ppm	Cr.....	≤0.02 ppm	Zn .....	≤0.1 ppm
Colour (APHA) .....	≤ 10	Alcalinity (NH3).....	≤7 ppm	Cu .....	≤0.02 ppm	Assay (GLC) .....	≥99.9 %
Identification (I.R.).....	Conform	Peroxides (H2O2) .....	≤20 ppm	Fe .....	≤0.1 ppm	Stabilized with BHT.....	200 ÷ 350 ppm
Density at 20° C .....	0.885 ÷ 0.893	Al .....	≤0.5 ppm	Mg .....	≤0.1 ppm	Residue on evaporation (without stab.)	≤ 10 ppm
Refractive index at 20°C.1.4040 ÷ 1.4100		Ba .....	≤0.1 ppm	Mn .....	≤0.02 ppm		
Boiling point.....	64.0 ÷ 65.0 ° C	Ca .....	≤0.5 ppm	Ni .....	≤0.02 ppm		
Water (K.F.) .....	≤150 ppm	Cd .....	≤0.05 ppm	Pb .....	≤0.1 ppm		
Residue on evaporation .....	≤300 ppm	Co .....	≤0.02 ppm	Sn .....	≤0.1 ppm		

Code	Size	Packaging	Notes
487308	1 l	Glass bottle	
487303	2.5 l	Glass bottle	
487305	5 l	Plastic tank	
487307	5 l	Aluminium can	
487301	23 kg	Metal drum	
487309	200 l	Metal drum	

**Tetrahydrofuran > RE - Pure - Stabilized with BHT**

RE

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4020 ÷ 1.4120	Acidity .....	≤50 ppm	Residue on evaporation (without stab). ≤ 50 ppm
Identification .....	Positive	Boiling point..... 63.8 ÷ 65.3 ° C	Peroxides (H2O2) .....	≤100 ppm	Stabilized with BHT..... 200 ÷ 350 ppm
Density at 20° C .....	0.884 ÷ 0.894	Water (K.F) .....	Assay (GLC) .....	≥99.5 %	

Code	Size	Packaging	Notes
382981	1 l	Glass bottle	
382985	2.5 l	Glass bottle	
382982	5 l	Aluminium can	
528481	5 l	Plastic tank	
382986	23 kg	Metal drum	
382983	200 l	Metal drum	

**Tetrahydrofuran-d8**

• Tetraidrofurano-d8 • Tétrahydrofuranne-d8 • Tetrahydrofurano-d8 • Tetrahydrofuran-d8

Synonym:

Octadeuterotetrahydrofuran

C <sub>4</sub> D <sub>8</sub> O	<b>Classification transport</b>			<b>Danger</b>
Molecular Weight: 80,16	ONU: 2056			H225-H315-H319-H351-H335-HEU019
CAS: 1693-74-9	Transport Hazard class: 3			P210-P280-P303+P361+P353-P304+P340-
EEC-N: 216-898-4	Packing group II			P305+P351+P338-P403+P233

**Tetrahydrofuran-d8 > RS - For NMR - min 99.5%**

RS

Code	Size	Packaging	Notes
P5380	2 x 0.6 ml	Glass ampoule	
P5385	25 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis****Tetramethylammonium hydroxide 10%**

• Tetrametilammonio idrossido 10% • Tétraméthylammonium hydroxyde 10% • Tetrametilamonio hidróxido 10% • Tetramethylammoniumhydroxid 10%

C <sub>4</sub> H <sub>13</sub> NO	<b>Classification transport</b>			<b>Danger</b>
Molecular Weight: 91,16	ONU: 1835			H301-H311-H314-H370-H372
CAS: 75-59-2	Transport Hazard class: 8			P280-P301+P310a-P301+P330+P331-
	Packing group II			P303+P361+P353-P304+P340-P305+P351+P338

**Tetramethylammonium hydroxide 10% > RS - For polarography and steroids detection**

RS

Description .....	Clear colourless liquid	Identification .....	Positive	Assay (acidimetric) .....	9.5 ÷ 10.5 %
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Code	Size	Packaging	Notes
487491	100 ml	Glass bottle	
487492	250 ml	Glass bottle	

**N,N,N',N'-Tetramethyl-p-phenylenediamine dihydrochloride**

- N,N,N',N'-Tetrametil-p-fenilendiammina bicloridrato
- N,N,N',N'-Tétraméthyl-p-phénylènediamine dichlorhydraté
- N,N,N',N'-Tetrametil -p-fenilendiammina diclorhidrato
- N,N,N',N'-Tetramethyl-p-phenylenediamin-Dihydrochlorid

Synonym:

- TMPPD
- Wurster's reagent

C <sub>6</sub> H <sub>4</sub> [N(CH <sub>2</sub> ) <sub>2</sub> ] <sub>2</sub> ·2HCl	<b>Warning</b>	
Molecular Weight: 237,17	H315-H319-H335	
CAS: 637-01-4	P261-P271-P304+P340-P305+P351+P338-	
EEC-N: 211-274-8	P332+P313-P403+P233	

**N,N,N',N'-Tetramethyl-p-phenylenediamine dihydrochloride > RPE - For analysis**

RPE

Description .	White-hazel crystalline powder	Identification .....	Positive	Melting point.....	219 ÷ 222 °C	Assay (non-aqueous medium) .....	≥ 98.5 %
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Code	Size	Packaging	Notes
487601	5 g	Glass bottle	

**TFA ▶ Trifluoroacetic acid**



## TFAA ▶ Trifluoroacetic anhydride



### Thallium standard solution

• Tallio standard soluzione • Thallium solution standard • Talio, solución patrón • Thallium-Standardlösung

#### Thallium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003000	100 ml	Plastic bottle	A 10 ppm solution Ref Ph.Eur 5003000

#### Thallium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505912	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505915	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505913	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

#### Thallium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504011	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504013	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504015	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
504017	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Thiazole Yellow G ▶ Clayton's yellow



### Thioacetamide

• Tioacetammide • Thioacétamide • Tioacetamida • Thioacetamid

Synonym:  
Ethanethioamide

C<sub>2</sub>H<sub>5</sub>NS  
Molecular Weight: 75,13  
CAS: 62-55-5



#### Thioacetamide > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000211	100 ml	Plastic bottle	Thioacetamide TS

#### Thioacetamide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder      Melting point ..... 111 ÷ 114 ° C      Assay (argentimetric) ..... ≥ 99.0 %  
Identification ..... Positive      Residue on ignition ..... ≤ 500 ppm      Appearance of solution 2% ..... Conform

Code	Size	Packaging	Notes
487803	50 g	Glass bottle	

**Thioacetamide solution 40 g/l**

- Tioacetammide soluzione 40 g/l • Thioacétamide solution 40 g/l • Tioacetamida solución 40 g/l
- Thioacetamidlösung 40 g/l

Synonym:  
*Ethanethioamide*

$\text{CH}_3\text{CSNH}_2$   
Molecular Weight: 75,13  
CAS: 62-55-5

**Danger**

H350-HA26  
P201-P202-P280-P308+P313-P405-P501a

**Thioacetamide solution 40 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611089603	100 ml	Plastic bottle	Ref Ph.Eur 1089602
611089602	1 l	Plastic bottle	Ref Ph.Eur 1089602

**2-Thiobarbituric acid**

- Acido 2-tiobarbiturico • Acide 2-thiobarbiturique • Acido 2-tiobarbitúrico • 2-Thiobarbitursäure

Synonym:  
• 4,6-Dihydroxy-2-mercaptopyrimidine  
• 4,6-Dihydroxypyrimidine-2-thiol

$\text{NHCOCH}_2\text{CONHCS}$   
Molecular Weight: 144,15  
CAS: 504-17-6  
EEC-N: 207-985-8

**2-Thiobarbituric acid > RPE - For analysis****RPE**

Description ..... Yellowish crystalline powder      Identification ..... Positive      Loss on drying ..... ≤ 2 %      Assay (acidimetric) ..... ≥ 97.5 % (s.s.)

Code	Size	Packaging	Notes
411271	5 g	Glass bottle	
411272	25 g	Glass bottle	

Thiocarbamide ► Thiourea

Thioethylene glycol ► 2-Mercaptoethanol

**Thioglycolic acid 80%**

- Acido tioglicólico 80% • Acide thioglycolique 80% • Acido tioglicólico 80% • Thioglykolsäure 80%

Synonym:  
*Mercaptoacetic acid*

$\text{C}_2\text{H}_4\text{O}_2\text{S}$   
Molecular Weight: 92,12  
CAS: 68-11-1

**Classification transport**

ONU: 1940  
Transport Hazard class: 8  
Packing group II

**Danger**

H301-H311-H331-H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P311a-P305+P351+P338-P361+P364-  
P403+P233

**Thioglycolic acid 80% > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611089700	10 ml	Glass bottle	Ref Ph.Eur 1089700

**Thioglycolic acid 80% > RPE - For analysis****RPE**

Description ..... Clear colourless liquid      Density at 20° C ..... ≥ 1.260      Iron sensitivity ..... ≥ 0.1 µg/ml      Fe ..... ≤ 50 ppm  
Identification ..... Positive      Heavy metals (Pb) ..... ≤ 10 ppm      Sulphate ..... ≤ 50 ppm      Assay (oxidimetric) ..... ≥ 78 %

Code	Size	Packaging	Notes
411385	500 ml	Glass bottle	



## Thiourea

• Tiourea • Thiourée • Tiourea • Thioharnstoff

Synonym:

- Thiocarbamide
- Sulfourea

$\text{NH}_2\text{CSNH}_2$   
Molecular Weight: 76,12  
CAS: 62-56-6  
EEC-N: 200-543-5



### Warning

H302-H351-H361d-H411

P264-P280-P301+P312a-P330-P308+P313-P501a

### Thiourea > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder    Water solubility..... Conform    Loss on drying ..... ≤0.5 %    Assay (argentimetric)..... ≥99.0 % s.s.  
Identification ..... Positive    Melting point..... 174 ÷ 177 °C    Residue on ignition..... ≤0.1 %

Code	Size	Packaging	Notes
488104	100 g	Plastic bottle	
488105	250 g	Plastic bottle	
488107	1 kg	Plastic bottle	
488102	25 kg	Plastic bucket	
488101	50 kg	Fibre drum	

### Thiourea > RE - Pure

RE

Description ..... White crystalline powder    Melting point..... 173 ÷ 178 °C    Residue on ignition..... ≤0.1 %    Assay (argentimetric)..... ≥98 %  
Identification ..... Positive    Loss on drying ..... ≤2 %    Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
385407	1 kg	Plastic bottle	
385409	5 kg	Plastic tank	
385403	25 kg	Plastic bucket	



## Thorium standard solution

• Torio standard soluzione • Thorium solution standard • Torio, solución patrón • Thorium-Standardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Danger

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Thorium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504281	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504283	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Thulium standard solution

• Tullio standard soluzione • Thullium solution standard • Tullio, solución patrón • Thullium-Standardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Thulium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505917	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505918	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Thulium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507763	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507519	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Thymol

• Timolo • Thymol • Timol • Thymol

Synonym:  
2-Isopropyl-5-methylphenol

C <sub>10</sub> H <sub>14</sub> O Molecular Weight: 150,22 CAS: 89-83-8 EEC-N: 201-944-8	<b>Classification transport</b> ONU: 2430 Transport Hazard class: 8 Packing group II		<b>Danger</b> H302-H314-H411 P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338
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## Thymol > ERBApharm - According to pharmacopoeia: BP-DAB-NF-Ph.Eur.-FU

ERBApharm

Description ..... Colourless crystals	Acidity ..... Conform Ph.Eur.	Melting point ..... 48 ÷ 51 °C
Identification ..... Positive	Related compounds ..... Conform Ph.Eur.	Not volatile residue ..... ≤500 ppm
Appearance of solution ..... Conform Ph.Eur.	Organic volatile impurities ..... Conform NF	Assay ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
384205	250 g	Plastic bottle	
384201	1 kg	Plastic bottle	
384202	2.5 kg	Plastic bottle	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade



## Thymol blue

• Blu timolo • Bleu de thymol • Azul de timol • Thymolblau

Synonym:  
Thymolsulfonphthalein

C <sub>27</sub> H <sub>30</sub> O <sub>5</sub> S Molecular Weight: 466,59 CAS: 76-61-9 EEC-N: 200-973-3
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## Thymol blue > RPE - For analysis

RPE

Description ..... Polvere verde bruna	Identification ..... Positive	pH range ..... 1.2 ÷ 2.8	Colour change ..... rosso-giallo
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Code	Size	Packaging	Notes
429228	5 g	Glass bottle	
429222	25 g	Glass bottle	
429223	50 g	Plastic bottle	



## Thymol blue 0.4% in ethanol

• Blu timolo soluzione 0,4% in alcole etilico • Bleu de thymol solution 0.4% dans l'éthanol  
• Azul de timol solucion 0.4% en alcohol etilico • Thymolblau lösung 0.4% in Ethanol

Synonym:  
Thymolsulfonphthalein

C <sub>27</sub> H <sub>30</sub> O <sub>5</sub> S Molecular Weight: 466,59 CAS: 76-61-9	<b>Classification transport</b> ONU: 1170 Transport Hazard class: 3 Packing group III		<b>Warning</b> H226-H319 P210-P241-P280-P303+P361+P353-P305+P351+P338-P337+P313
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## Thymol blue 0.4% in ethanol > RPE - For analysis

RPE

Description ..... Blue-brown liquid	Sensitivity(pH 1.2-2.8) ..... Conform	Colour change ..... red-yellow
Identification ..... Positive	Sensitivity(pH 8.2-9.6) ..... Conform	

Code	Size	Packaging	Notes
E429235	250 ml	Glass bottle	

Acid-basis indicator



## Thymol blue indicator

• Blu timolo indicatore • Indicateur bleu de thymol • Indicador azul de timol • Thymol blauer Indikator

### Thymol blue indicator > RS - For analysis

RS

pH..... 6.8 - 7 unite pH    Temperature of measurement..... 15 - 25 °C

Code	Size	Packaging	Notes
PS0270/15	1 l	Plastic bottle	



## Thymol blue solution

• Blu timolo soluzione • Bleu de thymol solution • Azul de timol solución • Thymolblau lösung

### Classification transport

ONU: 2924  
Transport Hazard class: 3  
Packing group III



### Warning

H226-H319  
P210-P241-P280-P303+P361+P353-  
P305+P351+P338-P337+P313

### Thymol blue solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611090601	100 ml	Plastic bottle	Ref Ph.Eur 1090601

**Colour change: pH 1.2 (red) to pH 2.8 (yellow); pH 8.0 (olive-green) to pH 9.6 (blue)**



## Thymol blue TA indicator

• Blu timolo TA indicatore • Indicateur TA au bleu de thymol • TA indicador azul de timol • Thymolblau TA-Indikator

### Thymol blue TA indicator > RS - For analysis

RS

pH..... 6.5 - 7.5 unite pH    Temperature of measurement..... 15 - 25 °C    Coca-cola colour..... Conform

Code	Size	Packaging	Notes
PS0187/15	1 l	Plastic bottle	
PS0187/16	1 l	Glass bottle	



## Thymolphthalein

• Timolfaleina • Thymolphthaléine • Timolftaleina • Thymolphthalein

Synonym:

5',5''-Diisopropyl-2',2''-dimethylphenolphthalein



Molecular Weight: 430,55

CAS: 125-20-2

EEC-N: 204-729-7

### Thymolphthalein > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder    Identification ..... Positive    Colour change..... incolore ÷ blu    pH range ..... 8.8 ÷ 10.5

Code	Size	Packaging	Notes
487728	5 g	Glass bottle	
487729	25 g	Glass bottle	



## Thymolphthalein 0.1% hydroalcoholic solution

- Timolftealéina 0.1% soluzione idroalcolica • Thymolphthaléine 0.1% solution hydroalcoolique
- Timolftealéina 0.1% solución idroalcohólica • Thymolphthalein 0.1% ige hydroalkoholische Lösung

Synonym:  
5',5''-Diisopropyl-2',2''-dimethylphenolphthalein



Molecular Weight: 430,55

CAS: 125-20-2

### Classification transport

ONU: 1170

Transport Hazard class: 3

Packing group II



### Danger

H225-H319

P210-P241-P280-P303+P361+P353-

P305+P351+P338-P337+P313

### Thymolphthalein 0.1% hydroalcoholic solution > RPE - For analysis

RPE

Description ..... Clear colourless liquid Density at 20° C ..... 0.877 ÷ 0.883 pH range ..... 9.3 - 10.5  
 Identification ..... Positive Colour change..... incolore blu

Code	Size	Packaging	Notes
E487755	250 ml	Glass bottle	

Michaelis indicator series



## Thymolphthalein solution 0.1% in ethanol

- Timolftealéina solución 0.1% in etanol • Thymolphthaléine solution 0.1% dans l'éthanol
- Timolftealéina solución 0.1% en etanol • Thymolphthaleinlösung 0.1% in Ethanol

Synonym:  
5',5''-Diisopropyl-2',2''-dimethylphenolphthalein



Molecular Weight: 430,55

CAS: 125-20-2

### Classification transport

ONU: 1170

Transport Hazard class: 3

Packing group II



### Danger

H225-H319

P210-P241-P280-P303+P361+P353-

P305+P351+P338-P337+P313

### Thymolphthalein solution 0.1% in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611090701	100 ml	Plastic bottle	Ref Ph.Eur 1090701

Colour change: pH 9.3 (colourless) to pH 10.5 (blue)



## Tin, powder

- Stagno, polvere • Etain, poudre • Estaño, polvo • Zinnpulver

Sn

Molecular Weight: 118,69

CAS: 7440-31-5

EEC-N: 231-141-8

### Tin, powder > RPE - For analysis

RPE

Description ..... Grey powder Assay (gravimetric) ..... ≥99 % Particle size >75 µm ..... ≤ 0.5 %  
 Identification ..... Positive Particle size >106 µm ..... ≥ 0 % Particle size >45 µm ..... 3 - 15 %

Code	Size	Packaging	Notes
484914	100 g	Glass bottle	
484917	1 kg	Plastic bottle	



## Tin foil

- Stagno lastra • Etain en feuilles • Estaño hojas • Zinn geht

Sn

Molecular Weight: 118,69

CAS: 7440-31-5

EEC-N: 231-141-8

### Tin foil > RPE - For analysis

RPE

Description ..... Metallic foil Identification ..... Positive Assay (gravimetric) ..... ≥99 %

Code	Size	Packaging	Notes
484887	1 kg	Box	





## Tin standard solution

• Stagno standard soluzione • Etain solution standard • Estaño, solución patrón • Zinn-Standardlösung

**Classification transport**  
 ONU: 3264  
 Transport Hazard class: 8  
 Packing group III



**Warning**  
 H290  
 P234-P390-P406

### Tin standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003101	100 ml	Plastic bottle	A 0.1 ppm solution: to dilute according to Ref Ph.Eur 5003101
615003109	100 ml	Plastic bottle	A 5 ppm solution: to dilute according to Ref Ph.Eur 5003100

### Tin standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505862	100 ml	Plastic bottle	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid
505865	100 ml	Plastic bottle	conc. 100 ppm Matrix: Hydrofluoric acid and nitric acid
505863	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Tin standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503941	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503943	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
503945	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
503947	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Tin standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
503949	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrofluoric acid and nitric acid
507492	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
E497655	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
E497651	500 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Tin standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
484861		Plastic ampoule	conc. 1.000 ppm Matrix: Hydrochloric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Tin (II) chloride dihydrate

- Stagno cloruro oso diidrato • Chlorure d'étain (II) dihydrate • Estaño (II) cloruro dihidrato
- Zinn (II) chloriddihydrat

Synonym:  
Stannous chloride dihydrate

SnCl<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 225,63  
CAS: 10025-69-1  
EEC-N: 231-868-0

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314-H335-H373  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

### Tin (II) chloride dihydrate > RPE - For analysis - ACS

**RPE**

Description ..... White crystals    Sulphate ..... Conform    K ..... ≤ 50 ppm    Assay (oxidimetric) ..... 98.0 ÷ 103.0 %  
Identification ..... Positive    Ca ..... ≤ 50 ppm    Na ..... ≤ 100 ppm  
HCl solubility ..... Conform    Fe ..... ≤ 30 ppm    Pb ..... ≤ 100 ppm

Code	Size	Packaging	Notes
485004	100 g	Plastic bottle	
485005	250 g	Plastic bottle	
485007	1 kg	Plastic bottle	
485002	5 kg	Plastic jar	

### Tin (II) chloride dihydrate > RE - Pure

**RE**

Description ..... White crystals    Identification ..... Positive    Assay (oxidimetric) ..... ≥97.0 %

Code	Size	Packaging	Notes
379406	500 g	Plastic bottle	
379407	5 kg	Plastic tank	
379403	25 kg	Plastic bucket	



## Tin (II) chloride solution

- Stagno cloruro oso soluzione • Etain (II) chlorure solution • Estaño (II) cloruro solución
- Zinn (II) chloridlösung

Synonym:  
Stannous chloride

SnCl<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 189,62  
CAS: 10025-69-1



**Danger**  
H314-H373  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Tin (II) chloride solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611085001	100 ml	Glass bottle	Ref Ph.Eur 1085001



## Tin (II) chloride solution 10%

- Stagno cloruro oso soluzione 10% • Chlorure d'étain (II) dihydrate solution 10%
- Estaño (II) cloruro solución 10% • Zinn (II) -chloridlösung 10%

Synonym:  
Stannous chloride

SnCl<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 189,62  
CAS: 10025-69-1



**Danger**  
H314-H373  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Tin (II) chloride solution 10% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Density at 20° C ..... 1.075 ÷ 1.085    Assay ..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E485041	1 l	Bottle	



## Tin (II) sulfate

• Stagno solfato oso • Etain (II) sulfate • Estaño (II) sulfato • Zinn (II) sulfat

Synonym:  
Stannous sulfate

SnSO<sub>4</sub>  
Molecular Weight: 214,75  
CAS: 7488-55-3  
EEC-N: 231-302-2

### Tin (II) sulfate > RE - Pure

RE

Description .... Yellowish crystalline powder    Co ..... ≤50 ppm    Fe ..... ≤100 ppm    Pb ..... ≤200 ppm  
Identification ..... Positive    Cu ..... ≤20 ppm    Ni ..... ≤20 ppm    Assay (oxidimetric) ..... ≥95 %

Code	Size	Packaging	Notes
379601	1 kg	Plastic bottle	



## Tin (IV) chloride pentahydrate

• Stagno cloruro ico pentaidrato • Etain (IV) chlorure pentahydrate • Estaño (IV) cloruro pentahidratado • Zinn (IV) chloridpentahydrat

Synonym:  
Tin tetrachloride

SnCl<sub>4</sub>·5H<sub>2</sub>O  
Molecular Weight: 350,58  
CAS: 10026-06-9  
EEC-N: 231-588-8

**Classification transport**  
ONU: 2440  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314-H412  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Tin (IV) chloride pentahydrate > RPE - For analysis

RPE

Description .... White to off-white crystalline powder or lumps    Fe ..... ≤ 50 ppm    Pb ..... ≤ 50 ppm  
Identification ..... Positive    Assay (argentimetric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
485074	100 g	Glass bottle	
485076	500 g	Plastic bottle	



## Tin (IV) oxide

• Stagno ossido ico • Etain (IV) oxyde • Estaño (IV) óxido • Zinn (IV) oxid

SnO<sub>2</sub>  
Molecular Weight: 150,69  
CAS: 18282-10-5  
EEC-N: 242-159-0

### Tin (IV) oxide > RPE - For analysis

RPE

Description ..... White to light grey powder    Identification ..... Positive    Assay ..... ≥ 99.9 %

Code	Size	Packaging	Notes
485154	100 g	Glass bottle	



## Tisab

• Tisab • Tisab • Tisab • TISAB



**Danger**  
H318  
P280i-P305+P351+P338-P310a

### Tisab > RS - For analysis

RS

pH ..... 4.7 - 4.9 unite pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0363/21	2.5 l	Glass bottle	

**Tisab > RS - For fluorides analysis**

RS

pH..... 5.00 - 6.00 unité pH    Temperature of measurement..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0809/22	5 l	Plastic tank	

**Tisab III solution**

• Tisab III soluzione • Tisab III solution • Tisab III solución • Tisab III-Lösung

**Danger**

H318

P280i-P305+P351+P338-P310a

**Tisab III solution > RS - For fluorides analysis**

RS

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 5.0 ÷ 5.5

Code	Size	Packaging	Notes
488162	500 ml	Plastic bottle	

**Titanium standard solution**

• Titanio standard soluzione • Titane solution standard • Titanio, solución patrón • Titan-Standardlösung

**Titanium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615003200	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5003200

**Titanium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505907	100 ml	Plastic bottle	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid
505908	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid
505909	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrofluoric acid and nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Titanium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504001	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid
504003	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid
504005	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid
504007	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Titanium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507764	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
507520	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Titanium dioxide

• Titanio biossido • Titane dioxide • Titanio dióxido • Titandioxid

Synonym:

- Titanium(IV) oxide
- Titania

TiO<sub>2</sub>  
Molecular Weight: 79,9  
CAS: 13463-67-7  
EEC-N: 236-675-5

### Titanium dioxide > RPE - For analysis

RPE

Description .....	White powder	Phosphate .....	≤0.1 %	Water solubility.....	≤0.4 %	Zn .....	≤50 ppm
Identification .....	Positive	H2SO4-insoluble matter .....	≤0.1 %	As .....	≤2 ppm	Assay (oxidimetric) .....	≥98.5 %
Loss on drying .....	≤0.5 %	Heavy metals (Pb).....	≤10 ppm	Cu .....	≤5 ppm		
Loss on ignition.....	≤1.0 %	Sulphate.....	≤0.1 %	Fe .....	≤50 ppm		
Chloride.....	≤200 ppm	Solubility in dil. HCl.....	≤0.5 %	Pb .....	≤10 ppm		

Code	Size	Packaging	Notes
488256	100 g	Plastic bottle	
488257	1 kg	Plastic bottle	
488251	10 kg	Carton box	

### Titanium dioxide > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-BP

ERBApharm

Description .....	White powder	Barium .....	Conform Ph.Eur.	Loss on ignition.....	≤0.5 %	Fe .....	≤200 ppm
Identification .....	Positive	Water-soluble subst.....	≤0.25 %	Heavy metals (Pb).....	≤20 ppm	Assay (oxidimetric) .....	99.0 ÷ 100.5 %s.s.
Appearance of solution .....	Conform Ph.Eur.	Acid soluble matter .....	≤0.5 %	Sb .....	≤100 ppm		
Acidity or alkalinity.....	Conform Ph.Eur.	Loss on drying .....	≤0.5 %	As .....	≤1 ppm		

Code	Size	Packaging	Notes
385751	1 kg	Plastic bottle	
385752	5 kg	Plastic tank	
385753	25 kg	Plastic bucket	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade

### Titanium dioxide > RE - Pure

RE

Description .....	Greyish powder	Loss on drying .....	≤1 %	Assay (oxidimetric) .....	≥98 %
Identification .....	Positive	Solubility in dil. HCl.....	≤1 %		

Code	Size	Packaging	Notes
385707	1 kg	Plastic bottle	
385709	5 kg	Plastic tank	
385702	25 kg	Plastic bucket	



## Titanium isopropylate

• Titanio isopropilato • Titane isopropylate • Titanio tetrapropilato • Titanisopropylat

Synonym:

- Titanium(IV) isopropoxide
- Tetraisopropyl orthotitanate

Ti[OCH(CH<sub>3</sub>)<sub>2</sub>]<sub>4</sub>  
Molecular Weight: 284,26  
CAS: 546-68-9  
EEC-N: 208-909-6

### Classification transport

ONU: 2413  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H331-H319-H336  
P210-P280-P303+P361+P353-P304+P340-P311a-  
P305+P351+P338-P403+P233

### Titanium isopropylate > RE - Pure

RE

Description .....	Clear slightly yellow liq.	Density at 20° C .....	~ 0.965	Assay (gravimetric) .....	16.6 - 17.3 % Ti
Identification .....	Positive	Melting point.....	≥ 15 ° C		

Code	Size	Packaging	Notes
488421	100 ml	Glass bottle	

**Titanium trichloride-sulfuric acid reagent**

• Reattivo titanio tricloruro-acido solforico • Titane trichlorure-acide sulfurique • Titanio tricloruro-ácido sulfúrico • Titantrichlorid-Schwefelsäure

TiCl<sub>3</sub>

Molecular Weight: 154,22

CAS: 7705-07-9

**Titanium trichloride-sulfuric acid reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611091202	100 ml	Glass bottle	Ref Ph.Eur 1091202

**Titanium trichloride-sulfuric acid reagent > RS - For analysis according to USP**

RS

Code	Size	Packaging	Notes
617000221	100 ml	Plastic bottle	Titanium Trichloride-Sulfuric Acid TS

**o-Tolidine solution 0.1%**

• o-Tolidina soluzione 0.1% • o-Tolidine en solution à 0,1% • o-Tolidina solución 0.1% • o-Tolidinlösung 0.1% 3,3'-Dimethylbenzidine

Synonym:

C<sub>14</sub>H<sub>16</sub>N<sub>2</sub>

Molecular Weight: 212,28

CAS: 119-93-7

**Classification transport**

ONU: 1760

Transport Hazard class: 8

Packing group III

**Danger**

H290-H350-HA26

P234-P280-P308+P313-P390-P406-P501a

**o-Tolidine solution 0.1% > RPE - For analysis**

RPE

Description ..... Clear colourless liquid Identification ..... Positive

Code	Size	Packaging	Notes
488461	1 l	Glass bottle	

**For the determination of Au, Ce, Cl, halogen free, Mn****o-Tolidine solution**

• o-Tolidina soluzione • o-Tolidine en solution • o-Tolidina solución • o-Tolidin in Lösung

C<sub>14</sub>H<sub>16</sub>N<sub>2</sub>

Molecular Weight: 212,28

CAS: 119-93-7

**o-Tolidine solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611123001	500 ml	Glass bottle	Ref Ph.Eur 1123001

**Toluene**

• Toluene • Toluène • Tolueno • Toluol

C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>

Molecular Weight: 92,14

CAS: 108-88-3

EEC-N: 203-625-9

**Classification transport**

ONU: 1294

Transport Hazard class: 3

Packing group II

**Danger**

H225-H315-H361d-H336-H373-H304

P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

**Toluene > RS - For HPLC - Isocratic Grade**

RS

Description .....	Clear colourless liquid	Acidity or alkalinity.....	≤0.0015 meq/g	At 285 nm .....	≥ 10 %	at 330 nm .....	≥96 %
Identification .....	Positive	Water (K.F) .....	≤100 ppm	at 290 nm .....	≥55 %	at 350 nm .....	≥99 %
Density at 20° C .....	0.865 ÷ 0.869	Residue on evaporation .....	≤2 ppm	at 300 nm .....	≥80 %		
Refractive index at 20°C. 1.4931 ÷ 1.4991		Assay (GLC) .....	≥99.8 %	at 310 nm .....	≥90 %		
Boiling point.....	110.1 ÷ 111.1 ° C	U.V. Transmittance		at 320 nm .....	≥94 %		

Code	Size	Packaging	Notes
412641000	1 l	Glass bottle	
412642000	2.5 l	Glass bottle	



**Toluene > RS - For preparative HPLC****RS**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4931 ÷ 1.4991	Residue on evaporation .....	≤5 ppm	U.V. Transmittance	
Identification .....	Positive	Boiling point..... 110.1 ÷ 111.1 °C	Alcalinity.....	≤0.0002 meq/g	at 300 nm .....	≥75 %
Density at 20° C .....	0.865 ÷ 0.869	Water (K.F).....	Assay (GLC) .....	≥99.8 %	at 350 nm .....	≥98 %

Code	Size	Packaging	Notes
488531	2.5 l	Glass bottle	

**Toluene > RS - ATRASOL - For traces analysis****RS**

Appearance .....	Clear colourless liquid	Free acid (as HCl).....	≤ 10 mg/Kg	GC-ECD.Individual peak (Lindane) .	≤ 2 ng/L	µg/L
Refractive index at 20°C.....	1.494 - 1.498	Non volatile residue.....	≤ 5 mg/Kg	Ret.range 1,2,4-trichlorobenzene		Ret.range n-dodecane to n-tetracontane
Water content (K.F).....	≤ 50 mg/Kg	Assay (GC).....	≥ 99.9 %	to decachlorobiphenyle		
Colour .....	≤ 10 Hazen	GC ( FID ) - NC Atrasol .....	Conform	GC-FID.Individual peak (n-hexadecane) .	≤ 5	

Code	Size	Packaging	Notes
P0713216	1 l	Glass bottle	
P0713221	2.5 l	Glass bottle	
P0713282	4 l	Glass bottle	

**Toluene > RS - PESTIPUR - For pesticide analysis****RS**

Description .....	Clear liquid	Assay (GC).....	≥ 99.8 %	Non volatile residue.....	≤ 5 mg/Kg
Colour .....	≤ 10 hazen	Acidity (HCl).....	≤ 10 ppm	GC-NPD (Ethylparation).....	≤ 3 ng/l
Identification .....	Positive	Not volatile residue.....	≤ 5 ppm	GC-ECD.Individual peak (Lindane) .	≤ 3 ng/L
Water .....	≤ 100 ppm	GC-ECD (Lindano) .....	≤ 3 ng/l	Assay (GLC) .....	≥ 99.8 %

Code	Size	Packaging	Notes
488591	1 l	Glass bottle	
488592	2.5 l	Glass bottle	
488594	4 l	Glass bottle	

**Toluene > RS - SPECTROSOL - For optical spectroscopy****RS**

Description .....	Clear liquid	Acidity or alkalinity.....	≤0.0015 meq/g	U.V. Transmittance at 290 nm .....	≥55 %
Colour (APHA) .....	≤10	Water (K.F).....	≤100 ppm	U.V. Transmittance at 300 nm .....	≥80 %
Identification .....	Positive	Residue on evaporation .....	≤5 ppm	U.V. Transmittance at 310 nm .....	≥90 %
Density at 20° C .....	0.865 ÷ 0.869	Assay (GLC).....	≥99.8 %	U.V. Transmittance at 320 nm .....	≥93 %
Refractive index at 20°C.....	1.4931 ÷ 1.4991	Free acid (as HCl).....	≤ 10 mg/Kg	U.V. Transmittance at 350 nm .....	≥98 %
Boiling point.....	110.1 ÷ 111.1 ° C	U.V. Transmittance at 285 nm .....	≥10 %		

Code	Size	Packaging	Notes
488601	1 l	Glass bottle	
488602	2.5 l	Glass bottle	

**Toluene > RS - Anhydrous - For analysis****RS**

Refractive index at 20°C.....	1.494 - 1.498	Colour .....	≤ 10 Hazen	Benzene .....	≤ 200 mg/Kg
Water content (K.F).....	≤ 50 mg/Kg	Assay (GC).....	≥ 99.8 %	Styrene.....	≤ 10 mg/Kg
Non volatile residue.....	≤ 10 mg/Kg	Free acid (as HCl).....	≤ 10 mg/Kg	Ethylbenzene + xylene.....	≤ 500 mg/Kg

Code	Size	Packaging	Notes
P0711010	200 ml	Bottle with septum	
P07110T10	200 ml	Bottle with septum	On molecular sieves 4A
P0711016	1 l	Glass bottle	
P0711021	2.5 l	Glass bottle	

**Toluene > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP****RPE**

Description .....	Clear colourless liquid	Acidity (benzoic acid) .....	≤14 ppm	Al .....	≤0.5 ppm	Mg .....	≤0.1 ppm
Identification (I.R.) .....	Positive	Alcalinity (NH <sub>3</sub> ) .....	≤2 ppm	B .....	≤0.01 ppm	Mn .....	≤0.01 ppm
Colour (APHA) .....	≤10	Water (K.F.) .....	≤150 ppm	Ba .....	≤0.1 ppm	Ni .....	≤0.01 ppm
Density at 20° C .....	0.865 ÷ 0.869	Residue on evaporation .....	≤10 ppm	Ca .....	≤0.5 ppm	Pb .....	≤0.01 ppm
Refractive index at 20°C .....	1.4931 ÷ 1.4991	Ready carbonizable substances .....	Conform	Cd .....	≤0.01 ppm	Sn .....	≤0.1 ppm
Boiling point .....	110.1 ÷ 111.1 °C	Benzene .....	≤ 0.02 %	Co .....	≤0.01 ppm	Zn .....	≤0.01 ppm
Alcohol miscibility .....	Complete	Tiophene .....	≤1 ppm	Cr .....	≤0.01 ppm	Styrene .....	≤ 10 ppm
Chloroform miscibility .....	Complete	Total sulphur .....	≤3 ppm	Cu .....	≤0.01 ppm	Ethyl benzene + xylene .....	≤ 500 ppm
Diethyl ether miscib. ....	Complete	Assay (GLC) .....	≥99.8 %	Fe .....	≤0.05 ppm		

Code	Size	Packaging	Notes
488551	1 l	Glass bottle	
488555	2.5 l	Glass bottle	
488552	5 l	Aluminium can	
488557	24 kg	Metal drum	
488556	170 kg	Metal drum	

**Toluene > RE - Pure****RE**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.491 ÷ 1.501	Water (K.F.) .....	≤300 ppm	Assay (GLC) .....	≥99.5 %
Identification .....	Positive	Boiling point .....	109.9 ÷ 111.4 °C	Benzene .....	≤ 0.02 %	Ethyl benzene + xylene .....	≤ 750 ppm
Density at 20° C .....	0.862 ÷ 0.872	Residue on evaporation .....	≤50 ppm	Total sulphur .....	≤100 ppm		

Code	Size	Packaging	Notes
386002	1 l	Glass bottle	
386001	2.5 l	Glass bottle	
386003	23 kg	Metal drum	
386009	170 kg	Metal drum	

**Toluene > RE - Pure - Low content in benzene****RE**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.491 ÷ 1.501	Water (K.F.) .....	≤300 ppm	Assay (GLC) .....	≥99.5 %
Identification .....	Positive	Boiling point .....	109.9 ÷ 111.4 °C	Benzene .....	≤ 0.02 %	Ethyl benzene + xylene .....	≤ 750 ppm
Density at 20° C .....	0.862 ÷ 0.872	Residue on evaporation .....	≤50 ppm	Total sulphur .....	≤100 ppm		

Code	Size	Packaging	Notes
528231	5 l	Plastic tank	
528233	25 l	Metal drum	
528232	200 l	Metal drum	

**Toluene > RE - ASTM****RE**

Appearance .....	Clear liquid	Peroxide .....	≤ 5 ppm	Water (K.F.) .....	≤ 200 ppm	Antioxidant .....	1500 - 2500 mg/L
Colour .....	≤ 10 APHA	Density at 15°C .....		Toluene (ASTM) .....	≥ 99.5 % (V/V)		

Code	Size	Packaging	Notes
386102	5 l	Plastic tank	
386104	25 l	Metal drum	
386106	180 kg	Drum	

**Suitable for ASTM methods D2700 and D2699**



## Toluene in solution in hexane

• Toluene soluzione in esano • Toluène en solution dans l'hexane • Tolueno en solución de hexano • Toluol in Lösung in Hexan



Molecular Weight: 92,14

CAS: 108-88-3

### Classification transport

ONU: 1993

Transport Hazard class: 3

Packing group II



### Danger

H225-H315-H361f-H336-H373-H411

P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### Toluene in solution in hexane > RS - For analysis according to Ph. Eur.Chap. 2.2.25

RS

Code	Size	Packaging	Notes
506462	10 ml	Sealed cuvette	
506463	100 ml	Glass bottle	



## Toluene-d8

• Toluene-d8 • Toluène-d8 • Tolueno-d8 • Toluol-d8



Molecular Weight: 100,19

CAS: 2037-26-5

EEC-N: 218-009-5

### Classification transport

ONU: 1294

Transport Hazard class: 3

Packing group II



### Danger

H225-H315-H361d-H336-H373-H304

P210-P241-P280-P303+P361+P353-P304+P340-P403+P233

### Toluene-d8 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5399A	2 x 0.75 ml	Glass ampoule	
P5393A	5 ml	Glass ampoule	
P5395	25 ml	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**



## p-Toluene sulfonamide

• p-Toluenesulfonamide • p-Toluènesulfonamide • p-Toluenosulfonamida • p-Toluolsulfonamid



Molecular Weight: 171,22

CAS: 70-55-3

EEC-N: 200-741-1

### p-Toluene sulfonamide > RPE - For analysis

RPE

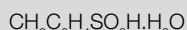
Description ..... White crystalline powder    Identification ..... Positive    Melting point ..... ~ 136 °C    Assay (ex nitrogen) ..... ≥98 %

Code	Size	Packaging	Notes
488661	100 g	Plastic bottle	



## p-Toluenesulfonic acid

• Acido p-toluenesulfonico monoidrato • Acide p-toluenesulfonique monohydrate • Acido p-toluenesulfónico • Toluol-4-sulfonsäure



Molecular Weight: 190,22

CAS: 6192-52-5

EEC-N: 203-180-0

### Classification transport

ONU: 2585

Transport Hazard class: 8

Packing group III



### Danger

H314-H335

P280-P301+P330+P331-P303+P361+P353-

P304+P340-P310a-P305+P351+P338-P403+P233

### p-Toluenesulfonic acid > RPE - For analysis

RPE

Description ..... White crystals    Melting point ..... 99 ÷ 103 °C    Acidity(Sulphuric acid) ..... ≤ 1 %    Assay (oxidimetric) ..... ≥ 97 %  
 Identification ..... Positive    Water (K.F) ..... ≤13 %    Fe ..... ≤50 ppm

Code	Size	Packaging	Notes
411436	500 g	Plastic bottle	
411432	20 kg	Plastic bucket	

**p-Toluenesulfonic acid > RE - Pure****RE**

Description ..... White crystals Identification ..... Positive Fe ..... ≤100 ppm Assay (acidimetric) ..... ≥97 %

Code	Size	Packaging	Notes
307508	10 kg	Carton box	

**p-Toluenesulfonic acid sodium salt**

- Acido p-toluenosulfonico sale sodico • Acide p-toluenesulfonique sel sodique
- Acido p-toluenosulfónico sal sódica • p-Toluolsulfonsäure-Natriumsalz

Synonym:  
*Sodium p-toluenesulfonate*

$\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{Na}$   
Molecular Weight: 194,19  
CAS: 657-84-1  
EEC-N: 211-522-5

**Warning**

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**p-Toluenesulfonic acid sodium salt > RPE - For analysis****RPE**

Description ..... White crystals Identification ..... Positive Assay ..... ≥ 97.5 %

Code	Size	Packaging	Notes
411504	100 g	Glass bottle	

**Toluidine blue**

- Blu toluidina • Bleu de toluidine • Azul de toluidina • Toluidinblau

Synonym:  
*Basic Blue 17*

$\text{C}_{15}\text{H}_{16}\text{ClN}_3\text{S}$   
Molecular Weight: 305,83  
CAS: 92-31-9  
EEC-N: 202-146-2

**Toluidine blue > RS - For microscopy - C.I. 52040****RS**

Description ..... Black powder Identification ..... Positive Spettro (UV) ..... Conform

Code	Size	Packaging	Notes
429282	25 g	Glass bottle	

**Dye for cytology-histochemistry****Total-ionic-strength-adjustment buffer**

- Tampone forza ionica totale • Tampon pour ajustement de la force ionique totale • Tampón fuerza iónica total
- Puffer zur Einstellung der Gesamtionenstärke

**Total-ionic-strength-adjustment buffer > RS - For analysis according to Ph. Eur. Chap. 4.1.3****RS**

Code	Size	Packaging	Notes
614007700	1 l	Plastic bottle	Ref Ph.Eur 4007700
614008800	1 l	Plastic bottle	Ref Ph.Eur 4008800

**Triacetin**

- Triacetina • Triacétine • Triacetina • Triacetin

Synonym:  
*Glyceryl triacetate*

$\text{C}_9\text{H}_{14}\text{O}_6$   
Molecular Weight: 218,21  
CAS: 102-76-1  
EEC-N: 203-051-9

**Triacetin > RPE - For analysis****RPE**Description ..... Clear colourless liquid Identification ..... Positive Acidity (acetic acid) ..... ≤100 ppm Assay (GLC) ..... ≥99.0 %  
Water ..... ≤0.1 %

Code	Size	Packaging	Notes
489152	1 l	Glass bottle	



## 2,2,2 - Trichlorethanol

• 2,2,2 - Tricloroetanol • 2,2,2 - Trichloroéthanol • 2,2,2 - Tricloroetanol • 2,2,2 - Trichlorethanol

Cl<sub>3</sub>CCH<sub>2</sub>OH  
Molecular Weight: 149,4  
CAS: 115-20-8  
EEC-N: 204-071-0



### Danger

H302-H318-H336  
P261-P271-P304+P340-P310a-P305+P351+P338-P403+P233

### 2,2,2 - Trichlorethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    Refractive index at 20°C. 1.4880 ÷ 1.4910    Assay (GLC) ..... ≥98.5 %

Code	Size	Packaging	Notes
415271	100 ml	Glass bottle	



## Trichloroacetic acid

• Acido tricloroacetico • Acide trichloroacétique • Acido tricloroacetico • Trichloressigsäure

Synonym:  
TCA

CCl<sub>3</sub>COOH  
Molecular Weight: 163,39  
CAS: 76-03-9  
EEC-N: 200-927-2

**Classification transport**  
ONU: 1839  
Transport Hazard class: 8  
Packing group II



### Danger

H314-H335-H410  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P403+P233

### Trichloroacetic acid > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Colourless crystals    Residue on ignition ..... ≤ 0.03 %    Nitrate ..... ≤ 20 ppm    Fe ..... ≤ 10 ppm  
Identification ..... Positive    Chloride ..... ≤ 20 ppm    Sulphate ..... ≤ 0.02 %    Assay (acidimetric) ..... ≥ 99.0 %  
Ready carbonizable substances ..... Conform    Phosphate ..... ≤ 5 ppm    Heavy metals (Pb) ..... ≤ 20 ppm    Water ..... ≤ 0.5 %

Code	Size	Packaging	Notes
411524	100 g	Glass bottle	
411525	250 g	Plastic bottle	
411527	1 kg	Plastic bottle	

### Trichloroacetic acid > RE - Pure

RE

Description ..... Colourless crystals    Water ..... ≤ 0.5 %    Assay (acidimetric) ..... ≥ 98.5 %  
Identification ..... Positive    Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
307557	1 kg	Plastic bottle	
307558	5 kg	Plastic tank	



## Trichloroacetic acid solution 20%

• Acido tricloroacetico soluzione 20% • Acide trichloroacétique 20% • Acido tricloroacético solución 20%  
• Trichloressigsäure 20%

Synonym:  
TCA

CCl<sub>3</sub>COOH  
Molecular Weight: 163,39  
CAS: 76-03-9

**Classification transport**  
ONU: 2564  
Transport Hazard class: 8  
Packing group II



### Danger

H314-H335-H400-H411  
P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P403+P233

### Trichloroacetic acid solution 20% > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Assay (acidimetric) ..... 19.5 - 20.5 %

Code	Size	Packaging	Notes
502073	100 ml	Bottle	
411554000	1 l	Glass bottle	

**For the determination of iron in the blood according Heimayer. For protein precipitation. Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**

**1,2,4-Trichlorobenzene**

• 1,2,4-Trichlorobenzene • 1,2,4-Trichlorobenzène • 1,2,4-Trichlorobenceno • 1,2,4-Trichlorbenzol



Molecular Weight: 181,45

CAS: 120-82-1

EEC-N: 204-428-0

**Classification transport**

ONU: 2321

Transport Hazard class: 6.1

Packing group III

**Warning**

H302-H315-H410

P264-P280g-P301+P312a-P332+P313-P362+P364-P501a

**1,2,4-Trichlorobenzene > RS - SPECTROSOL - For optical spectroscopy****RS**

Refractive index at 20°C.. 1.5697 - 1.5737

Water content (K.F.).....≤ 100 mg/Kg

Colour ..... ≤ 10 Hazen

UV transmittance at 310 nm ..... ≥ 40 %

UV transmittance at 315 nm ..... ≥ 80 %

UV transmittance at 385 nm ..... ≥ 98 %

Assay (GC)..... ≥ 99 %

Non volatile residue..... ≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0722721	2.5 l	Glass bottle	

**1,2,4-Trichlorobenzene > RPE - For analysis****RPE**

Description ..... Clear colourless liquid

Identification ..... Positive

Density at 20° C ..... 1.451 ÷ 1.457

Refractive index at 20°C..... 1.5687 ÷ 1.5747

Boiling point..... 212.5 ÷ 213.5 ° C

Melting point..... 16.0 ÷ 18.0 ° C

Water (K.F.)..... ≤ 0.1 %

Residue on ignition..... ≤ 10 ppm

Assay (GLC)..... ≥ 98.5 %

Code	Size	Packaging	Notes
489382	1 l	Glass bottle	

**Should be stored at not less than 20 °C****Trichloromethane ► Chloroform****Tricresol**

• Tricresolo • Tricrésol • Tricresol • Trikresol



Molecular Weight: 108,14

CAS: 1319-77-3

EEC-N: 215-293-2

**Classification transport**

ONU: 2022

Transport Hazard class: 6.1

Packing group II

**Danger**

H301-H311-H314

P280-P301+P310a-P301+P330+P331-

P303+P361+P353-P304+P340-P305+P351+P338

**Tricresol > RE - Pure****RE**

Description ..... Brown clear liquid

Identification ..... Positive

Density at 25° C ..... ≥ 1.035

Code	Size	Packaging	Notes
386202	1 l	Glass bottle	

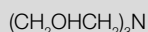
**Mixture of isomers****Triethanolamine**

• Trietanolamina • Triéthanolamine • Trietanolamina • Triethanolamin

**Synonym:**

• 2,2',2''-Nitrilotriethanol

• Tris(2-hydroxyethyl)amine



Molecular Weight: 149,19

CAS: 102-71-6

EEC-N: 203-049-8

**Triethanolamine > RPE - For analysis****RPE**

Description ..... Yellowish liquid

Identification ..... Positive

Water miscibility..... Conform

Alcohol miscibility..... Complete

Density at 20° C ..... 1.120 ÷ 1.128

Refractive index at 20°C: 1.4797 ÷ 1.4907

Melting point..... 20.0 ÷ 22.0 ° C

Water (K.F.)..... ≤ 0.3 %

Chloride..... ≤ 10 ppm

Diethanolamine..... ≤ 1.5 %

Monoethanolamine..... ≤ 0.5 %

Heavy metals (Pb)..... ≤ 2 ppm

Residue on ignition..... ≤ 50 ppm

Sulphate..... ≤ 20 ppm

Fe..... ≤ 2 ppm

Assay (non-aqueous medium)..... ≥ 98 %

Code	Size	Packaging	Notes
489504	1 l	Glass bottle	
489501	30 kg	Metal drum	

**Keep in a dark place**



## Triethanolamine > ERBApharm - According to pharmacopeia: FU-Ph.Eur.

**ERBApharm**

Description .....	Clear colourless liquid or yellowish	Identification C .....	Pass test	Sulphated ash .....	≤ 0.05 %	Appearance of solution .....	Conform Ph.Eur.
Density at 20° C .....	1.120 - 1.128	Diethanolamine .....	≤ 0.5 %	Total basis .....	99.0 - 103.0 % anidro	Heavy metals (Pb) .....	≤ 10 ppm
Identification .....	Positive	Refractive index at 20°C .....	1.482 ÷ 1.485	Monoethanolamine .....	≤ 0.1 %	N-Nitrosodiethanolamine .....	≤ 24 ppb
Identification B .....	pass test	Water (K.F.) .....	≤ 0.5 %	Related substances .....	≤ 1.0 %		

Code	Size	Packaging	Notes
386301	1 l	Glass bottle	
386303	2.5 l	Glass bottle	
386304	30 kg	Metal drum	
386305	220 kg	Metal drum	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**



## Triethylamine

• Trietilamina • Triéthylamine • Trietilamina • Triethylamin

Synonym:

*N,N-Diethylethanamine*

(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>N

Molecular Weight: 101,19

CAS: 121-44-8

EEC-N: 204-469-4

### Classification transport

ONU: 1296

Transport Hazard class: 3

Packing group II



### Danger

H225-H302-H311-H331-H314-H335

P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338-P361+P364-P403+P233

## Triethylamine > RS - For HPLC - Isocratic Grade

**RS**

Clear, colourless liquid .....	Conform	Residue on evaporation .....	≤ 0.001 % (m/m)	UV transmittance at 250nm (0.1M) .....	≥ 10 %
Water content (K.F.) .....	≤ 0.05 % (m/m)	Assay (GC) .....	≥ 99.7 %	UV transmittance at 254nm (0.1M) .....	≥ 75 %

Code	Size	Packaging	Notes
489631	1 l	Glass bottle	
489633	2.5 l	Glass bottle	

## Triethylamine > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.725 ÷ 0.729	Boiling point .....	89.0 ÷ 90.0 °C	Assay (GLC) .....	≥ 99.5 %
Identification .....	Positive	Refractive index at 20°C .....	1.3983 ÷ 1.4023	Residue on evaporation .....	≤ 100 ppm		

Code	Size	Packaging	Notes
489556	1 l	Glass bottle	

## Triethylamine > RE - Pure

**RE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.724 ÷ 0.730	Residue on evaporation .....	≤ 0.02 %
Water content (K.F.) .....	≤ 1000 mg/Kg	Refractive index at 20°C .....	1.3953 ÷ 1.4053	Assay (GLC) .....	≥ 99.5 %
Identification .....	Positive	Boiling point .....	88.5 ÷ 90.5 °C	Diethylamine .....	≤ 0.1 %

Code	Size	Packaging	Notes
386601	1 l	Glass bottle	
386603	5 l	Plastic tank	
386602	20 kg	Plastic tank	
P0790266	200 l	Combined drum	

**Triethylene glycol**

• Glicol trietilenico • Glycol triéthylénique • Trietilenglicol • Triethylenglycol

Synonym:  
Triglycol

(CH<sub>2</sub>OHCH<sub>2</sub>OCH<sub>2</sub>)<sub>2</sub>  
Molecular Weight: 150,18  
CAS: 112-27-6  
EEC-N: 203-953-2

**Triethylene glycol > RPE - For analysis****RPE**

Description .....	Clear colourless liquid	Density at 20° C .....	1.123 ÷ 1.131	Chloride .....	≤ 2 ppm	Sulphate .....	≤ 20 ppm
Identification .....	Positive	Refractive index at 20°C .....	1.4553 ÷ 1.4603	Heavy metals (Pb) .....	≤ 2 ppm	Fe .....	≤ 2 ppm
Water miscibility .....	Conform	Water (K.F.) .....	≤ 0.2 %	Peroxides (H <sub>2</sub> O <sub>2</sub> ) .....	≤ 50 ppm	Assay (GLC) .....	≥ 98 %
Alcohol miscibility .....	Complete	Acidity (acetic acid) .....	≤ 150 ppm	Residue on ignition .....	≤ 30 ppm		

Code	Size	Packaging	Notes
454111	1 l	Glass bottle	
454112	30 kg	Plastic drum	

**Trifluoroacetic acid**

• Acido trifluoroacetico • Acide trifluoroacétique • Acido trifluoroacético • Trifluoressigsäure

Synonym:  
TFA

CF<sub>3</sub>COOH  
Molecular Weight: 114,02  
CAS: 76-05-1  
EEC-N: 200-929-3

**Classification transport**

ONU: 2699  
Transport Hazard class: 8  
Packing group I

**Danger**

H332-H314-H412  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

**Trifluoroacetic acid > RS - For LC/MS****RS**

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 0.05 %	Fluoride .....	≤ 50 ppm	Assay (acidimetric) .....	≥ 99.9 %
Identification .....	Positive	Chloride .....	≤ 10 ppm	Sulphate .....	≤ 10 ppm	Suitability .....	LC-MS Tested

Code	Size	Packaging	Notes
411541	10 x 1 ml	Glass ampoule	
411542	10 x 2.5 ml	Glass ampoule	
411543	50 ml	Plastic bottle	

**Eluent phase additive****Trifluoroacetic acid > RS - SPECTROSOL - For optical spectroscopy****RS**

Appearance .....	Clear colourless liquid	Water content (K.F.) .....	≤ 0.05 % m/m	UV Absorbance at 280 nm .....	≤ 0.10 AU	UV Absorbance at 320 nm .....	≤ 0.05 AU
Identification (IR) .....	Conform	UV Absorbance at 260 nm .....	≤ 1.2 AU	UV Absorbance at 290 nm .....	≤ 0.09 AU	Content (Acidimetry) .....	99.9 - 101.0 % m/m
Density d <sub>20/4</sub> .....	1.480 - 1.500	UV Absorbance at 270 nm .....	≤ 0.15 AU	UV Absorbance at 300 nm .....	≤ 0.08 AU	Residue on evaporation ....	≤ 0.002 % m/m

Code	Size	Packaging	Notes
P0082746	1 l	Glass bottle PVC coated	
P0082747	2.5 l	Glass bottle PVC coated	

**Trifluoroacetic acid > RS - For peptide synthesis****RS**

Identification (IR) .....	Conform	Colour .....	≤ 10 Hazen	Content (Acidimetry) .....	≥ 99.9 % m/m	Sulphate (SO <sub>4</sub> <sup>-</sup> ) .....	≤ 20 mg/Kg
Density d <sub>20/4</sub> .....	1.480 - 1.500	Water content (K.F.) .....	≤ 500 mg/Kg	Chloride (Cl <sup>-</sup> ) .....	≤ 20 mg/Kg	Fluoride .....	≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0082103	100 ml	Glass bottle	
P0082112	1 l	Glass bottle PVC coated	
P0082147	2.5 l	Glass bottle PVC coated	

**Trifluoroacetic acid > RPE - For analysis****RPE**

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 0.05 %	Sulphate .....	≤ 10 ppm
Identification .....	Positive	Assay (acidimetric) .....	≥ 99.9 %		

Code	Size	Packaging	Notes
411561	100 ml	Glass bottle	
411564	250 ml	Glass bottle	

## Trifluoroacetic acid > RE - Pure

**RE**

Identification (IR).....Conform      Colour ..... ≤ 10 Hazen      Content (Acidimetry) ..... ≥ 99 % m/m      Sulphate (SO<sub>4</sub>-) ..... ≤ 20 mg/Kg  
 Density d20/4 ..... 1.480 - 1.500      Water content (K.F.) ..... ≤ 1000 mg/Kg      Chloride (Cl-) ..... ≤ 20 mg/Kg      Fluoride ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0080247	2.5 l	Glass bottle PVC coated	
P0080212	1 kg	Glass bottle PVC coated	
P0080297	30 kg	Plastic bucket	



## Trifluoroacetic acid-d

• Acido trifluoroacetico-d • Acide trifluoroacétique-d • Acido trifluoroacético-d • Trifluoressigsäure-d

CF<sub>3</sub>COOD  
 Molecular Weight: 115,03  
 CAS: 599-00-8  
 EEC-N: 209-961-2

**Classification transport**  
 ONU: 2699  
 Transport Hazard class: 8  
 Packing group I



**Danger**  
 H332-H314-H412  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

## Trifluoroacetic acid-d > RS - For NMR - min 99.5%

**RS**

Code	Size	Packaging	Notes
P5419A	2 x 0.75 ml	Glass ampoule	
P5413A	5 ml	Glass bottle	

*For specifications, contact our customer service for a certificate of analysis*



## Trifluoroacetic anhydride

• Anidride trifluoroacetica • Anhydride trifluoroacétique • Anhídrido trifluoroacético  
 • Trifluoressigsäureanhydrid

Synonym:  
 TFAA

(CF<sub>3</sub>CO)<sub>2</sub>O  
 Molecular Weight: 210,04  
 CAS: 407-25-0  
 EEC-N: 206-982-9

**Classification transport**  
 ONU: 3265  
 Transport Hazard class: 8  
 Packing group I



**Danger**  
 H301-H314  
 P280-P301+P310a-P301+P330+P331-  
 P303+P361+P353-P304+P340-P305+P351+P338

## Trifluoroacetic anhydride > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Density at 20° C ..... 1.511 ± 1.515      Assay (as anhydride)..... ≥ 98 %  
 Identification ..... Positive      Residue on evaporation ..... ≤ 10 ppm

Code	Size	Packaging	Notes
422225	500 ml	Glass bottle	

*For derivatization*

1,2,3-Trihydroxybenzene ▶ Pyrogallol

1,3,5-Trihydroxybenzene ▶ Phloroglucinol

3,4,5-Trihydroxybenzoic acid monohydrate ▶ Gallic acid monohydrate

2,4,6-Trihydroxypyrimidine ▶ Barbituric acid

Triiodomethane ▶ Iodoform

**Trimethylcetylammonium bromide**

- Trimetilcetilammonio bromuro • Triméthylcétylammonium bromure • Trimetilcetilammonio bromuro
- Trimethylcetylammoniumbromid

Synonym:

- Hexadecyltrimethylammonium bromide
- CTAB

$\text{CH}_3(\text{CH}_2)_{15}\text{N}(\text{CH}_3)_3\text{Br}$   
Molecular Weight: 364,46  
CAS: 57-09-0  
EEC-N: 200-311-3

**Classification transport**

ONU: 3077  
Transport Hazard class: 9  
Packing group III

**Danger**

H302-H315-H318-H335-H410  
P304+P340-P310a-P305+P351+P338-P330-  
P362+P364-P403+P233

**Trimethylcetylammonium bromide > RPE - For analysis****RPE**

Description ..... White crystalline powder Identification ..... Positive Assay (non-aqueous medium) .....  $\geq 99.0\%$

Code	Size	Packaging	Notes
489833	50 g	Plastic bottle	
489831	500 g	Plastic bottle	

**Trimethylcetylammonium p-toluenesulfonate**

- Trimetilcetilammonio p-toluensulfonato • Triméthylcétylammonium p-toluènesulfonate
- Trimetilcetilammonio p-toluensulfonato • Trimethylcethylammonium p-toluenesulphonate

Synonym:

- Hexadecyltrimethylammonium p-toluenesulfonate
- Cetyltrimethylammonium p-toluenesulfonate

$\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{N}(\text{CH}_3)_3(\text{CH}_2)_{15}\text{CH}_3$   
Molecular Weight: 455,74  
CAS: 138-32-9  
EEC-N: 205-324-8

**Warning**

H302-H312-H332-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Trimethylcetylammonium p-toluenesulfonate > RE - Pure****RE**

Description ..... White powder Solut. in acqua (1:200) ..... Complete Assay .....  $\geq 99.0\%$   
Identification ..... Positive pH sol. 1% .....  $5.0 \div 8.0$

Code	Size	Packaging	Notes
387203	25 kg	Fibre drum	

2,2,4-Trimethylpentane ▶ Isooctane

1,3,7-Trimethylxanthine ▶ Caffeine anhydrous

2,4,6-Trinitrophenol ▶ Picric acid solution

**Trioctylphosphine oxide**

- Triottilfosfina ossido • Trioctylphosphine oxyde • Triottilfosfina óxido • Trioctylphosphinoxid

Synonym:

TOPO

$(\text{C}_8\text{H}_{17})_3\text{PO}$   
Molecular Weight: 386,65  
CAS: 78-50-2  
EEC-N: 201-121-3

**Warning**

H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

**Trioctylphosphine oxide > RPE - For analysis****RPE**

Description ..... White crystals Identification ..... Positive Melting point .....  $52 \div 57\text{ }^\circ\text{C}$  Assay (GLC) .....  $\geq 98.5\%$

Code	Size	Packaging	Notes
489581	50 g	Glass bottle	



## Triphenylphosphine

• Trifenilfosfina • Triphénylphosphine • Trifenilfosfina • Triphenylphosphin

Synonym:  
Phosphorstriphenyl

(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>P  
Molecular Weight: 262,29  
CAS: 603-35-0  
EEC-N: 210-036-0



### Warning

H302-H317-H410  
P261-P264-P280g-P301+P312a-P333+P313-P501a

### Triphenylphosphine > RPE - For analysis

RPE

Description ..... White powder      Identification ..... Positive      Melting point ..... 80.0 ÷ 82.0 ° C      Assay (GLC) ..... ≥98 %

Code	Size	Packaging	Notes
489591	100 g	Glass bottle	



## 2,3,5-Triphenyltetrazolium chloride

• 2,3,5-Trifeniltetrazolo cloruro • 2,3,5-Triphényltétrazolium chlorure • 2,3,5-Trifeniltetrazolio cloruro  
• 2,3,5-Triphenyltetrazolium-chlorid

Synonym:  
• TPTZ  
• Tetrazolium Red

(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>CN<sub>4</sub>Cl  
Molecular Weight: 334,81  
CAS: 298-96-4  
EEC-N: 206-071-6



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

### 2,3,5-Triphenyltetrazolium chloride > RPE - For analysis

RPE

Description ..... White yellowish powder      Water (K.F.) ..... ≤ 1.0 %      s  
Identification ..... Positive      Assay (non-aqueous medium) 99 ÷ 100 % s

Code	Size	Packaging	Notes
489651	10 g	Glass bottle	



## Tris (hydroxymethyl)-aminomethane

• Tris idrossimetilaminometano • Tris(hydroxyméthyl)aminométhane • Tris (hidroximetil)aminometano  
• Tris(hydroxymethyl)-aminomethan

Synonym:  
Tris base

NH<sub>2</sub>C(CH<sub>2</sub>OH)<sub>3</sub>  
Molecular Weight: 121,14  
CAS: 77-86-1  
EEC-N: 201-064-4



### Warning

H315-H319  
P264-P280a-P305+P351+P338-P332+P313-  
P362+P364-P337+P313

### Tris (hydroxymethyl)-aminomethane > RS - For pHmetry

RS

Description ..... White crystalline powder      Solution colour ..... ≤25 APHA      Residue on ignition ..... ≤0.1 %      Assay (alkalimetric) ..... ≥99.3 % s.s.  
Identification ..... Positive      Melting point ..... ≥168.5 °C      Heavy metals (Pb) ..... ≤5 ppm  
pH solution 5% ..... 10.5 ÷ 11.5      Water (K.F.) ..... ≤0.5 %      Absorbance (1M aq, 290 nm) ..... ≤ 0.050

Code	Size	Packaging	Notes
489973	1 kg	Plastic bottle	
489971	25 kg	Plastic bucket	

### Tris (hydroxymethyl)-aminomethane > RPE - For analysis

RPE

Description ..... White crystalline powder      pH (1M a 25 °C) ..... 10.5 ÷ 11.5      Heavy metals (Pb) ..... ≤2 ppm      Assay (alkalimetric) ..... ≥99.5 %  
Identification ..... Positive      Loss on drying ..... ≤0.5 %      Residue on ignition ..... ≤ 0.1 %  
Melting point ..... 168 ÷ 172 ° C      Water-insoluble matter ..... ≤100 ppm      Fe ..... ≤1 ppm

Code	Size	Packaging	Notes
489981	100 g	Plastic bottle	
489984	500 g	Plastic bottle	
489983	1 kg	Plastic bottle	
489985	25 kg	Plastic bucket	

## Tris (hydroxymethyl)-aminomethane > ERBAPharm - According to pharmacopoeia: USP

**ERBAPharm**

Description ..... White crystalline powder      pH solution 5% ..... 10.0 ÷ 11.5      Loss on drying ..... ≤ 1.0 %      Heavy metals (Pb)..... ≤ 10 ppm  
 Identification ..... Positive      Melting point..... 168 ÷ 172 °C      Residue on ignition ..... ≤ 0.1 %      Titolo ( alcalimetrico )99.0 ÷ 101.0 % (s.s.)

Code	Size	Packaging	Notes
313441	25 kg	Plastic bucket	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*

## Tris (hydroxymethyl)-aminomethane > RE - Pure

**RE**

Description ..... White crystalline powder      pH (1M a 25 °C)..... 10.5 ÷ 11.5      Heavy metals (Pb)..... ≤ 2 ppm      Assay (alkalimetric)..... ≥ 99 %  
 Identification ..... Positive      Loss on drying ..... ≤ 1 %      Residue on ignition ..... ≤ 0.1 %  
 Melting point..... 168 ÷ 172 °C      Water-insoluble matter ..... ≤ 100 ppm      Fe ..... ≤ 2 ppm

Code	Size	Packaging	Notes
313432	1 kg	Plastic bottle	
313431	25 kg	Plastic bucket	



## Tris(hydroxymethyl)aminomethane solution

- Tris (idrossimetil)aminometano soluzione • Tris(hydroxyméthyl)aminométhane solution • Tris (hidroximetil)aminometano solución
- Tris (hydroxymethyl) aminomethanlösung

## Tris(hydroxymethyl)aminomethane solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611094201	100 ml	Plastic bottle	Ref Ph.Eur 1094201



## Tris(hydroxymethyl)aminomethane buffer solution pH 8.1

- Tampone tris(idrossimetil)aminometano tampn soluzione pH 8.1 • Tampon tris(hydroxyméthyl)aminométhane pH 8.1
- Tris (hidroximetil)aminometano solución tampón pH 8.1 • Tris (hydroxymethyl) aminomethan-Pufferlösung pH 8.1

## Tris(hydroxymethyl)aminomethane buffer solution pH 8.1 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614006200	1 l	Plastic bottle	Ref Ph.Eur 4006200



## Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4

- Tampone tris(idrossimetil)aminometano - EDTA pH 7.4 • Tampon tris(hydroxyméthyl)aminométhane-EDTA pH 8.4
- Tampón tris(hidroximetil)aminometano - EDTA pH 7.4 • Tris (hydroxymethyl) aminomethan-EDTA-Pufferlösung pH 8.4

## Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614006600	1 l	Plastic bottle	Ref Ph.Eur 4006600





## Tris (hydroxymethyl)-aminomethane hydrochloride

- Tris idrossimetilaminometano cloridrato • Tris(hydroxyméthyl)aminométhane chlorhydraté
- Tris (hidroximetil)aminometano hidrocloreuro • Tris(hydroxymethyl)-aminomethan HCl

Synonym:  
2-Amino-2(hydroxymethyl)1,3-propanediol hydrochloride

$\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3 \cdot \text{HCl}$   
Molecular Weight: 157,6  
CAS: 1185-53-1  
EEC-N: 214-684-5



### Warning

H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-P332+P313-P403+P233

### Tris (hydroxymethyl)-aminomethane hydrochloride > RPE - For analysis

RPE

Description .....	White crystals	Ba .....	≤ 1 ppm	Mg .....	≤ 10 ppm	Melting point.....	150 ÷ 154 °C
Identification .....	Positive	Ca .....	≤ 10 ppm	Mn .....	≤ 1 ppm		
Pb .....	≤ 5 ppm	Cu .....	≤ 1 ppm	Assay .....	≥ 99 %		
As .....	≤ 10 ppm	Fe .....	≤ 2 ppm	Absorbance (1M acq. 280 nm).....	≤ 0.05		

Code	Size	Packaging	Notes
479911	100 g	Plastic bottle	
479912	500 g	Plastic bottle	
479913	1 kg	Plastic bottle	



## Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4

- Tampone tris(idrossimetil)aminometano sodio cloruro pH 7.4 • Tampon tris(hydroxyméthyl)aminométhane-chlorure de sodium pH 7.4
- Tampón tris(hidroximetil)aminometano sodio cloruro pH 7.4 • Tris (hydroxymethyl) aminomethan-Natriumchlorid-Pufferlösung pH 7.4

### Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614004900	1 l	Plastic bottle	Ref Ph.Eur 4004900



## Triton® X100 solution

- Triton® X100 soluzione • Triton® X100 solution • Triton® X100 solución • Triton® X100-Lösung

Synonym:  
4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol

$4-(\text{C}_6\text{H}_{17})\text{C}_6\text{H}_4(\text{OCH}_2\text{CH}_2)_n\text{OH}$   
CAS: 9002-93-1



### Danger

H302-H318-H412  
P264-P280i-P301+P312a-P305+P351+P338-P310a-P501a

### Triton® X100 solution > RE - Pure

RE

Clear to light unclear liquid .....	Conform	Density d20/4 .....	1.055 - 1.075	Colour .....	≤ 60 Hazen
Appearance .....	Without particles in suspension	Water content (K.F.) .....	≤ 2000 mg/Kg	Cloud point (1% in water).....	63 - 69 °C

Code	Size	Packaging	Notes
P0120041	10 l	Plastic tank	



## Tropaeolin O

- Tropeolina O • Tropeoline O • Tropeolina O • Tropaeolin O

Synonym:  
• Tropaeolin O sodium salt  
• Acid Orange 6

$\text{C}_{12}\text{H}_9\text{N}_2\text{NaO}_5\text{S}$   
Molecular Weight: 316,27  
CAS: 547-57-9  
EEC-N: 208-924-8



### Warning

H315-H319  
P264-P280a-P305+P351+P338-P332+P313-P362+P364-P337+P313

### Tropaeolin O > RPE - For analysis - C.I. 14270

RPE

Description .....	Polvere marrone arancio	Loss on drying .....	≤ 15 %	pH range .....	11.1 - 12.7
Identification .....	Positive	Colour change.....	giallo arancio		

Code	Size	Packaging	Notes
490001	10 g	Glass bottle	
490002	25 g	Glass bottle	

**Tropaeolin O solution 0.1%**

- Tropeolina O soluzione 0,1%
- Tropéoline O solution 0.1%
- Tropeolina O solución 0.1%
- Tropaeolin O 0.1 %

Synonym:

- Tropaeolin O sodium salt
- Acid Orange 6

$C_{12}H_9N_2NaO_5S$   
Molecular Weight: 316,27  
CAS: 547-57-9

**Tropaeolin O solution 0.1% > RPE - For analysis****RPE**

Description ..... Orange clear liquid      Sensitivity (pH 11-13) ..... Conform      pH range ..... 11.1 - 12.7  
Identification ..... Positive      Colour change ..... giallo arancio

Code	Size	Packaging	Notes
E490056	500 ml	Bottle	

**Tungsten standard solution**

- Tungsteno standard soluzione
- Tungstène solution standard
- Tungsteno, solución patrón
- Wolfram-Standardlösung

**Classification transport**

ONU: 1760  
Transport Hazard class: 8  
Packing group III

**Tungsten standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505932	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Ammonium hydroxyde
505935	100 ml	Plastic bottle	conc. 100 ppm. Matrix: Ammonium hydroxyde

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Tungsten standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
504058	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Water
504051	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: 4% ammonia
504053	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: 4% ammonia
504055	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: 10% ammonia
504057	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: 10% ammonia

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Tungsten standard solution > RS - Standard solution for AAS****RS**

Code	Size	Packaging	Notes
507765	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
507521	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Tungstic acid

• Acido tungstico • Acide tungstique • Acido túngstico • Wolframsäure

H<sub>2</sub>WO<sub>4</sub>  
Molecular Weight: 249,86  
CAS: 7783-03-1  
EEC-N: 231-975-2

### Tungstic acid > RPE - For analysis

RPE

Description ..... Yellow-greenish powder    Fe ..... ≤ 20 ppm    As ..... ≤ 10 ppm    Na ..... ≤ 30 ppm  
Identification ..... Positive    Assay (W03) ..... ≥ 92.0 % t.q.    Cu ..... ≤ 5 ppm    Si ..... ≤ 30 ppm  
Loss on ignition ..... 6 ÷ 8 %    Al ..... ≤ 10 ppm    Mo ..... ≤ 50 ppm    Ti ..... ≤ 10 ppm

Code	Size	Packaging	Notes
411628	250 g	Plastic bottle	



## Tungsten (VI) oxide

• Anidride tungstica • Anhydride tungstique • Anhidrido túngstico • Wolfram (VI) oxid

WO<sub>3</sub>  
Molecular Weight: 231,85  
CAS: 1314-35-8  
EEC-N: 215-231-4



### Warning

H302  
P264-P270-P301+P312a-P330-P501a

### Tungsten (VI) oxide > RS - For microanalysis

RS

Description ..... Yellow powder    Identification ..... Positive    Assay (gravimetric) ..... ≥99 %

Code	Size	Packaging	Notes
422241	100 g	Glass bottle	



## Turbidity std 4000NTU formazine

• Torbidità std 4000NTU formazina • Standard turbidité 4000NTU Formazine • Turbiedad std 4000NTU formazina • Standardtrübung 4000NTU Formazin



### Danger

H332-H317-H350-HA26  
P261-P271-P280-P304+P340-P308+P313-  
P362+P364

### Turbidity std 4000NTU formazine > RS - For turbidimetry

RS

Description ..... Liquido opalescente    Identification ..... Positive

Code	Size	Packaging	Notes
489162	500 ml	Glass bottle	



## Turk's reagent

• Turk reattivo • Réactif de Turk • Türk reactivo • Türkisches Reagenz

HEU210

### Turk's reagent > RS - For microscopy

RS

Description ..... Purple liquid    Identification ..... Positive

Code	Size	Packaging	Notes
E490451	500 ml	Plastic bottle	In Vitro Diagnostic Medical Device

**Dye for hematology**

**L(-)Tyrosine**

• L(-)Tirosina • L(-)Tyrosine • L(-)Tirosina • L-Tyrosin

Synonym:

*(S)-2-Amino-3-(4-hydroxyphenyl)propionic acid*4-HOC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>CHNH<sub>2</sub>COOH

Molecular Weight: 181,19

CAS: 60-18-4

EEC-N: 200-460-4

**L(-)Tyrosine > RPE - For analysis****RPE**

Description .....	White crystalline powder	Loss on drying .....	≤ 0.5 %	Chloride.....	≤ 400 ppm	Assay (HClO <sub>4</sub> ) .....	≥ 99.0 % (d.s.)
Identification .....	Positive	Residue on ignition .....	≤ 0.1 %	Heavy metals (Pb).....	≤ 10 ppm		
Spec. opt. rot. (C=5 in HCl 1N)-12.3/-9.8°C		Ammonium .....	≤ 200 ppm	Fe .....	≤ 10 ppm		

Code	Size	Packaging	Notes
488152	25 g	Glass bottle	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

## Uranine ▶ Fluorescein sodium salt



### Uranium standard solution

• Uranio standard soluzione • Uranium solution standard • Uranio, solución patrón • Uran-Standardlösung

#### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



#### Danger

H314  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338

### Uranium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505922	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505923	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

### Uranium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504031	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504033	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504035	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
504037	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



### Urea

• Urea • Urée • Urea • Urea

#### Synonym:

• Carbamide  
• Carbonyldiamide

(NH<sub>2</sub>)<sub>2</sub>CO  
Molecular Weight: 60,06  
CAS: 57-13-6  
EEC-N: 200-315-5

### Urea > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder  
Identification ..... Positive  
Melting point ..... 132 ÷ 135 °C  
Chloride ..... ≤ 5 ppm  
Sulphate ..... ≤ 10 ppm  
Water-insoluble matter ..... ≤ 100 ppm  
Heavy metals (Pb) ..... ≤ 10 ppm  
Residue on ignition ..... ≤ 100 ppm  
Fe ..... ≤ 10 ppm  
Assay (non-aqueous medium) .99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
490757	100 g	Plastic bottle	
490758	500 g	Plastic bottle	
490759	1 kg	Plastic bottle	
490751	25 kg	Sack	

### Urea > RE - Pure

RE

Description ..... White granules  
Identification ..... Positive  
Melting point ..... 130 ÷ 135 °C  
Ammoniacal salts ..... ≤ 0.2 %  
Water-insoluble matter ..... ≤ 200 ppm  
Fe ..... ≤ 20 ppm

Code	Size	Packaging	Notes
387807	1 kg	Plastic bottle	
387809	5 kg	Plastic tank	
387805	25 kg	Plastic bucket	
387801	50 kg	Sack	

**Vanadium standard solution**

• Vanadio standard soluzione • Vanadium solution standard • Vanadio, solución patrón • Vanadium-Standardlösung

**Classification transport**ONU: 3264  
Transport Hazard class: LQ

H314

P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338**Vanadium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615003300	100 ml	Plastic bottle	A 1 g/l solution Ref Ph.Eur 5003300

**Vanadium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505927	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505928	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505929	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Vanadium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
504041	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504043	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504045	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
504047	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Vanadium standard solution > RS - Standard solution for AAS****RS**

Description ..... Yellow clear liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507766	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504187	500 ml	Plastic bottle	conc. 1000 ppm Matrix: Nitric acid
E497675	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Sulfuric acid
E497671	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Sulfuric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Vanadium standard solution > RS - NORMEX - Concentrated solution for AAS****RS**

Description ..... Blue clear liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
491091		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml



**Vanadium (V) oxide**  
 • Vanadio pentossido • Vanadium (V) pentaoxyde • Vanadio (V) pentóxido • Vanadium (V) oxid  
 Synonym: *Vandia*

$V_2O_5$ Molecular Weight: 181,88 CAS: 1314-62-1 EEC-N: 215-239-8	<b>Classification transport</b> ONU: 2862 Transport Hazard class: 6.1 Packing group III	 <b>Danger</b> H302-H332-H341-H361d-H335-H372-H411 P260-P271-P280-P304+P340-P308+P313-P403+P233
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### Vanadium (V) oxide > RPE - For analysis

RPE

Description .....	Ochre powder	Cr.....	≤ 100 ppm	Si .....	≤ 200 ppm
Identification .....	Positive	Fe .....	≤ 300 ppm	Assay (oxidimetric) .....	≥ 99.60 %

Code	Size	Packaging	Notes
491103	50 g	Glass bottle	

**Vanillin**  
 • Vanillina • Vanilline • Vanillina • Vanillin  
 Synonym: *4-Hydroxy-3-methoxybenzaldehyde*

$C_8H_8O_3$ Molecular Weight: 152,15 CAS: 121-33-5 EEC-N: 204-465-2	 <b>Warning</b> H302 P264-P270-P301+P312a-P330-P501a
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### Vanillin > ERBApharm - According to pharmacopoeia: BP-DAB-NF-Ph.Eur.-FU

ERBApharm

Description .....	Yellowish crystals	Related compounds.....	Conform Ph.Eur.	Loss (silica gel) .....	≤1.0 % (4h)
Identification .....	Positive	React. w. sulphuric ac.....	Conform Ph.Eur.	Sulphated ash.....	≤500 ppm
Appearance of solution.....	Conform Ph.Eur.	Melting point.....	81 ÷ 83 ° C	Assay (alkalimetric).....	99.0 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
388104	100 g	Plastic bottle	
388107	1 kg	Plastic bottle	
388108	5 kg	Plastic tank	
388102	10 kg	Carton box	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade

**Vanillin solution, phosphoric**  
 • Vanillina soluzione, fosforico • Vaniline phosphorique solution • Vanillina solución fosfórica • Vanillinlösung, Phosphorsäure

<b>Classification transport</b> ONU: 2733 Transport Hazard class: 3 Packing group II	 <b>Danger</b> H225-H314 P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338
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### Vanillin solution, phosphoric > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611095302	100 ml	Plastic bottle	Ref Ph.Eur 1095302

Vaseline ▶ Paraffin white soft

**Victoria blue**

• Blu vittoria • Bleu Victoria • Azul Victoria • Viktoriablau

$C_{34}H_{34}N_3Cl$   
 Molecular Weight: 506,08  
 CAS: 1325-85-5  
 EEC-N: 215-408-6

**Classification transport**  
 ONU: 3143  
 Transport Hazard class: 6.1  
 Packing group III



**Warning**  
 H302  
 P264-P270-P301+P312a-P330-P501a

**Victoria blue > RS - For microscopy - C.I. 42595**

RS

Description ..... Green granules Identification ..... Positive

Code	Size	Packaging	Notes
429381	10 g	Glass bottle	
429382	25 g	Glass bottle	

**Dye for microscopy (Anderson Method)****Viscosity standards**

• Standard di viscosità • Standards de viscosité • Patrones de viscosidad • Viskositätsstandards

**Viscosity standards > RS - For calibration**

RS

Code	Size	Packaging	Notes
540801	500 ml	Glass bottle	6.7cSt@20°C, 5.8cSt@25°C, 4.2cSt@37.78°C, 4cSt@40°C, 3.2cSt@50°C
540802	500 ml	Glass bottle	14cSt@20°C, 12cSt@25°C, 8cSt@37.78°C, 7.5cSt@40°C, 5.8cSt@50°C
540803	500 ml	Glass bottle	20cSt@20°C, 16cSt@25°C, 11cSt@37.78°C, 10cSt@40°C, 7.5cSt@50°C
540804	500 ml	Glass bottle	30cSt@20°C, 24cSt@25°C, 15cSt@37.78°C, 14cSt@40°C, 10cSt@50°C
540805	500 ml	Glass bottle	88cSt@20°C, 66cSt@25°C, 35cSt@37.78°C, 32cSt@40°C, 21cSt@50°C
540806	500 ml	Glass bottle	160cSt@20°C, 120cSt@25°C, 60cSt@37.78°C, 54cSt@40°C, 35cSt@50°C
540807	500 ml	Glass bottle	790cSt@20°C, 580cSt@25°C, 280cSt@37.78°C, 250cSt@40°C, 160cSt@50°C
540808	500 ml	Glass bottle	3300cSt@20°C, 2300cSt@25°C, 1100cSt@37.78°C, 940cSt@40°C, 560cSt@50°C
540809	500 ml	Glass bottle	19000cSt@20°C, 12000cSt@25°C, 4000cSt@37.78°C, 3400cSt@40°C, 1700cSt@50°C
540810	500 ml	Glass bottle	28000cSt@20°C, 17000cSt@25°C, 6000cSt@37.78°C, 5100cSt@40°C, 2500cSt@50°C
540811	500 ml	Glass bottle	41000cSt@20°C, 25000cSt@25°C, 8000cSt@37.78°C, 6700cSt@40°C, 3200cSt@50°C



## Water

• Acqua • Eau • Agua • Wasser

H<sub>2</sub>O  
Molecular Weight: 18,02  
CAS: 7732-18-5  
EEC-N: 231-791-2

### Water > RS - For UHPLC-MS

RS

Description .....	Clear colourless liquid	Alkalinity .....	≤ 0.00005 %	UHPLC gradient peak	Ca .....	≤ 50 ppb	
Colour .....	≤ 5 APHA	Transmittance		At 210 nm .....	≤ 2 mAU	Mg .....	≤ 20 ppb
Identification (I.R.) .....	Positive	At 200 nm .....	≥ 95 %	Drift at 210 nm .....	≤ 8 mAU	Na .....	≤ 50 ppb
Conductivity .....	≤ 0.09 µS/cm	At 230 nm .....	≥ 99 %	Drift at 254 nm .....	≤ 3 mAU	K .....	≤ 50 ppb
Residue on evaporation .....	≤ 0.4 ppm	Fluorescence (quinine)		Sensitive Impurities (reserpine) .....	≤ 30 ppb		
Total organic carbon .....	≤ 10 ppb	At 254 nm .....	≤ 0.3 ppb	Al .....	≤ 20 ppb		
Acidity .....	≤ 0.0002 %	At 365 nm .....	≤ 0.3 ppb	Fe .....	≤ 30 ppb		

Code	Size	Packaging	Notes
412091	1 l	Glass bottle	
412092	2.5 l	Glass bottle	

### Water > RS - For LC/MS

RS

Description .....	Clear colourless liquid	Gradiente HPLC (Test) .....	Conform	Drift HPLC	Ca .....	≤ 50 ppb	
Colour .....	≤ 5 APHA	Acidity .....	≤ 0.0002 %	Idon. test grad. LC-MS (TIC,100-2000m/z)	Mg .....	≤ 20 ppb	
Identification (I.R.) .....	Positive	Alkalinity .....	≤ 0.00005 %	Impurezze sensibili (reserpina) .....	≤ 50 ppb	Na .....	≤ 100 ppb
Conductivity .....	≤ 0.09 µS/cm	HPLC Gradient		Contenuto metalli	K .....	≤ 50 ppb	
Residue on evaporation .....	≤ 0.5 ppm	at 210 nm .....	≤ 2 mAU	Al .....	≤ 20 ppb		
Total organic carbon .....	≤ 10 ppb	at 254 nm .....	≤ 0.5 mAU	Fe .....	≤ 30 ppb		

Code	Size	Packaging	Notes
412111	1 l	Glass bottle	
412112	2.5 l	Glass bottle	

### Water > RS - For HPLC PLUS

RS

Description .....	Clear colourless liquid	Fluorescence		at 210 nm .....	≤ 5 mAU	Nitrate .....	≤ 0.1 ppm
Identification .....	Positive	at 254 nm .....	≤ 1 ppb	at 220 nm .....	≤ 3 mAU	CO <sub>2</sub> .....	Not detectable
Residue on evaporation .....	≤ 0.5 ppm	at 365 nm .....	≤ 0.5 ppb	Conductivity during production	≤ 0.1 µS/cm		
Total organic carbon .....	≤ 0.1 ppm	UV Abs.max elut.peak		Heavy metals (Pb) .....	≤ 0.1 ppm		

Code	Size	Packaging	Notes
412141	1 l	Glass bottle	
412142	2.5 l	Glass bottle	

### Water > RS - For Headspace chromatography

RS

Description .....	Clear colourless liquid	Residue on evaporation .....	≤ 2 ppm	Residual solvent of class 1(acc. to ICH) ≤ 1 µg/g	Residual solvent of class 3(acc. to ICH) ≤ 50 µg/g
Colour .....	≤ 10 APHA	GC/HS		Residual solvent of class 2(acc. to ICH) ≤ 10 µg/g	

Code	Size	Packaging	Notes
412011	1 l	Glass bottle	

**Water > RS - Ultrapure - For trace analysis at ppt level**

RS

Description .....	Clear liquid	Co .....	≤ 10 ppt	Mn .....	≤ 10 ppt	Na .....	≤ 10 ppt
Colour (APHA) .....	≤ 10	Cu .....	≤ 10 ppt	Hg .....	≤ 20 ppt	Sr .....	≤ 10 ppt
Identification .....	Positive	Dy .....	≤ 1 ppt	Mo .....	≤ 10 ppt	Ta .....	≤ 10 ppt
Chloride .....	≤ 1 ppb	Er .....	≤ 1 ppt	Nd .....	≤ 1 ppt	Te .....	≤ 1 ppt
Phosphate .....	≤ 1 ppb	Eu .....	≤ 1 ppt	Ni .....	≤ 10 ppt	Tb .....	≤ 10 ppt
Sulphate .....	≤ 1 ppb	Gd .....	≤ 1 ppt	Nb .....	≤ 10 ppt	Ti .....	≤ 10 ppt
Al .....	≤ 20 ppt	Ga .....	≤ 10 ppt	Pd .....	≤ 10 ppt	Th .....	≤ 1 ppt
Sb .....	≤ 10 ppt	Ge .....	≤ 10 ppt	Pt .....	≤ 10 ppt	Tm .....	≤ 10 ppt
As .....	≤ 10 ppt	Au .....	≤ 10 ppt	K .....	≤ 10 ppt	Sn .....	≤ 10 ppt
Ba .....	≤ 10 ppt	Hf .....	≤ 1 ppt	Pr .....	≤ 10 ppt	Tl .....	≤ 10 ppt
Be .....	≤ 10 ppt	Ho .....	≤ 1 ppt	Re .....	≤ 10 ppt	W .....	≤ 10 ppt
Bi .....	≤ 10 ppt	In .....	≤ 1 ppt	Rh .....	≤ 10 ppt	U .....	≤ 1 ppt
B .....	≤ 20 ppt	Fe .....	≤ 10 ppt	Rb .....	≤ 10 ppt	V .....	≤ 10 ppt
Cd .....	≤ 10 ppt	La .....	≤ 1 ppt	Ru .....	≤ 10 ppt	Yb .....	≤ 10 ppt
Ca .....	≤ 10 ppt	Pb .....	≤ 10 ppt	Sm .....	≤ 10 ppt	Y .....	≤ 1 ppt
Ce .....	≤ 10 ppt	Li .....	≤ 10 ppt	Sc .....	≤ 10 ppt	Zn .....	≤ 10 ppt
Cs .....	≤ 10 ppt	Lu .....	≤ 1 ppt	Se .....	≤ 50 ppt	Zr .....	≤ 10 ppt
Cr .....	≤ 10 ppt	Mg .....	≤ 10 ppt	Ag .....	≤ 10 ppt		

Code	Size	Packaging	Notes
412185	500 ml	Plastic bottle	

**Water > RS - Superpure - For trace analysis at ppb level**

RS

Description .....	Clear liquid	Resistivity .....	≥ 18 Mohm	Mg .....	≤ 50 ppb	at 254 nm .....	≤ 0.005
Identification .....	Positive	Total organic carbon .....	≤ 20 ppb	K .....	≤ 50 ppb	at 300 nm .....	≤ 0.005
Colour .....	≤ 5 APHA	Al .....	≤ 50 ppb	Assorbimento massimo (a 254 nm) ..	0.002	at 400 nm .....	≤ 0.005
Residue on evaporation .....	≤ 1 ppm	Ca .....	≤ 50 ppb	Absorbance		LC Gradiente (Suitability Test) .....	Conform
Fluorescenza (Chinina) .....	≤ 100 ppt	Fe .....	≤ 50 ppb	at 200 nm .....	≤ 0.01		

Code	Size	Packaging	Notes
412151	1 l	Glass bottle	

**Water > RS - For analysis according to Ph. Eur. Chapter 2.2.25**

RS

Code	Size	Packaging	Notes
506411	100 ml	Glass bottle	Spectrophotometry Stray Light Blank

**Water > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611095501	1 l	Plastic bottle	Water ammonium-free Ref Ph.Eur 1095501
611095506	1 l	Plastic bottle	Water nitrate-free Ref Ph.Eur 1095506

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

## Water > RPE - For analysis

## RPE

Description .....	Clear colourless liquid	As .....	≤ 0.01 ppm	Cu .....	≤ 0.01 ppm	Pb .....	≤ 0.01 ppm
pH at 25°C .....	5 ÷ 7	Au .....	≤ 0.01 ppm	Fe .....	≤ 0.01 ppm	Si .....	≤ 0.01 ppm
Conductivity .....	≤ 0.1 µS/cm	B .....	≤ 0.01 ppm	In .....	≤ 0.01 ppm	Sn .....	≤ 0.01 ppm
Residue on evaporation .....	≤ 1 ppm	Ba .....	≤ 0.01 ppm	K .....	≤ 0.01 ppm	Sr .....	≤ 0.01 ppm
Residue on calcination .....	≤ 1 ppm	Be .....	≤ 0.01 ppm	Li .....	≤ 0.01 ppm	Tl .....	≤ 0.01 ppm
Chloride .....	≤ 0.1 ppm	Bi .....	≤ 0.01 ppm	Mg .....	≤ 0.01 ppm	V .....	≤ 0.01 ppm
Phosphate .....	≤ 0.1 ppm	Ca .....	≤ 0.01 ppm	Mn .....	≤ 0.01 ppm	Zn .....	≤ 0.01 ppm
Nitrate .....	≤ 0.1 ppm	Cd .....	≤ 0.01 ppm	Mo .....	≤ 0.01 ppm	Zr .....	≤ 0.01 ppm
Sulphate .....	≤ 0.1 ppm	Co .....	≤ 0.01 ppm	Na .....	≤ 0.1 ppm	Oxidizing substances (O) .....	≤ 0.4 mg/l
Ag .....	≤ 0.01 ppm	Cr .....	≤ 0.01 ppm	Ni .....	≤ 0.01 ppm		

Code	Size	Packaging	Notes
307592	1 l	Plastic bottle	
307593	2.5 l	Plastic bottle	
307582	5 l	Plastic bottle	
307591	5 l	Plastic tank	
307581	10 l	Plastic tank	
307586	10 l	Kubidos	
307584	20 l	Kubidos	
307583	25 kg	Plastic tank	
307587	25 kg	Plastic tank	With tap
307585	50 kg	Plastic drum	
307589	1000 kg	Combined drum	

Conform to EN-ISO 3696 grade 3



## Water purified

• Acqua purificata • Eau purifiée • Agua purificada • Gereinigtes Wasser

H<sub>2</sub>O  
Molecular Weight: 18,02  
CAS: 7732-18-5  
EEC-N: 231-791-2

## Water purified > ERBApharm® - According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB-USP-JP

## ERBApharm

Description .....	Clear colourless liquid	Chloride .....	Pass test	Residue on evaporation .....	≤ 10 ppm	Origin (BSE/TSE) .....	Mineral
Identification .....	Positive	Sulphate .....	Pass test	Ammonium .....	≤ 0.2 ppm	Total Organic Carbon .....	≤ 0.05 ppm
pH .....	5.0 ÷ 7.0	Calcium .....	Conform	Nitrate .....	≤ 0.2 ppm	Conductivity at 20°C .....	≤ 1.1 µS/cm
Acidity or alkalinity .....	Conform Ph.Eu.	Calcium + Magnesium .....	Conform Ph.Eu.	Heavy metals (Pb) .....	≤ 0.1 ppm		
Oxidizable substances .....	Conform Ph.Eu.	Carbon dioxide .....	Conform	Total aerobic bacteria .....	Conform Ph.Eu.		

Code	Size	Packaging	Notes
307606	1 l	Plastic bottle	
307601	5 l	Plastic tank	
307602	10 l	Kubidos	
307603	25 kg	Plastic tank	
307604	200 l	Plastic drum	

In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade

**Water + 0.1% v/v formic acid**

• Acqua + 0.1%(v/v) acido formico • Eau + 0.1%(v/v) acide formique • Agua + 0.1%(v/v) acido fórmico • Wasser + 0.1% (v / v) Ameisensäure

H<sub>2</sub>O  
Molecular Weight: 18,02  
CAS: 7732-18-5

**Water + 0.1% v/v formic acid > RS - For LC/MS****RS**

Description .....	Clear colourless liquid	Transmittance	Al .....	≤ 20 ppb	Raw material used
Colour .....	≤ 10 APHA	At 230 nm .....	Fe .....	≤ 30 ppb	Water (code 412110) .....
Acidity (formic acid) .....	0.095 ÷ 0.105 %	pH at 20°C .....	Ca .....	≤ 50 ppb	Formic acid 98-99% (code 405820) . Batch
HPLC Gradient		Test LC-MS TIC (100-2000m/z)	Mg .....	≤ 20 ppb	number
At 210 nm .....	≤ 50 mAU	Sensitive Impurities (reserpine) .....	Na .....	≤ 100 ppb	
At 254 nm .....	≤ 10 mAU	Metals content	K .....	≤ 50 ppb	

Code	Size	Packaging	Notes
412121	1 l	Glass bottle	
412122	2.5 l	Glass bottle	

**Water + 0.1% v/v trifluoroacetic acid**

• Acqua+ 0.1% v/v acido trifluoroacetico • Eau + 0.1% v/v d'acide trifluoroacétique • Agua + 0,1% v/v acido trifluoroacético • Wasser + 0.1% v/v trifluoressigsäure

H<sub>2</sub>O  
CAS: 7732-18-5

**Water + 0.1% v/v trifluoroacetic acid > RS - For HPLC****RS**

Clear, colourless solution ..... Conform TFA content ..... 0.095 - 0.105 %

Code	Size	Packaging	Notes
412031	1 l	Glass bottle	

**Water chlorine**

• Acqua di cloro • Eau de chlore • Agua de cloro • Chlorwasser

Cl<sub>2</sub>  
Molecular Weight: 70,91  
CAS: 7782-50-5

**Warning**

H400  
P273-P391-P501a

**Water chlorine > RPE - For analysis****RPE**

Description ..... Yellow clear liquid Identification ..... Positive Assay (ex chloryne) ..... 0.4 ÷ 0.7 % (p/p)

Code	Size	Packaging	Notes
411981	1 l	Glass bottle	

**Water deionized and acidified**

• Acqua deionizzata acidificata • Eau désionisée acidifiée • Agua desionizada acidificada • Gesäuertes entionisiertes Wasser

Molecular Weight: 63,01

**Classification transport**

ONU: 3264  
Transport Hazard class: 8  
Packing group III

**Warning**

H290-H315-H319-H335  
P261-P271-P304+P340-P305+P351+P338-  
P332+P313-P403+P233

**Water deionized and acidified > RS - Blanks for AAS, ICP, ICP-MS****RS**

Code	Size	Packaging	Notes
504550	1 l	Bottle	Matrix: 2 % Nitric acid
504551	1 l	Bottle	Matrix: 5 % Nitric acid
504552	1 l	Bottle	Matrix: 10 % Nitric acid
504553	1 l	Bottle	Matrix: 2 % Hydrochloric acid
504554	1 l	Bottle	Matrix: 5 % Hydrochloric acid
504557	1 l	Bottle	Matrix: 10 % Hydrochloric acid





## Wijs' reagent

• Wijs reattivo • Réactif de Wijs • Wijs reactivio • Wijs 'Reagenz

### Classification transport

ONU: 2920  
Transport Hazard class: 8  
Packing group II



### Danger

H226-H314-H373  
P210-P280-P301+P330+P331-P303+P361+P353-P304+P340-P310a-P305+P351+P338

## Wijs' reagent > RS - For detection of iodine index

RS

Description ..... Brown clear liquid Identification ..... Positive Iodine value ..... ≥90

Code	Size	Packaging	Notes
E491901	250 ml	Glass bottle	
E491902	1 l	Glass bottle	

## Wool fat ▶ Lanolin anhydrous



## Wright's stain solution in methanol

• Wright colorante soluzione in alcole metilico • Colorant de Wright solution methanolique • Colorante de Wright solución in alcohol metilico  
• Wright's Färbelösung in Methanol

### Classification transport

ONU: 1992  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H301-H370  
P210-P241-P280-P301+P310a-P303+P361+P353-P403+P235

## Wright's stain solution in methanol > RS - For microscopy

RS

Description ..... Blue clear liquid Identification ..... Positive Assorbanza a 518 nm ..... ≥ 0.17 Assorbanza a 660 nm ..... ≥ 0.15

Code	Size	Packaging	Notes
492011	100 ml	Glass bottle	In Vitro Diagnostic Medical Device

**Dye for hematology**

**Xylene, mix of isomers**

• Xilene, isomeri misti • Xylène, mélange d'isomères • Xileno, mezcla de isómeros • Xylol, isomerengemisch

C<sub>8</sub>H<sub>10</sub>

Molecular Weight: 106,17

EEC-N: 905-588-0

**Classification transport**

ONU: 1307

Transport Hazard class: 3

Packing group III

**Danger**

H226-H312-H332-H315-H319-H335-H373-H304

P210-P280-P303+P361+P353-P304+P340-

P305+P351+P338-P403+P233

**Xylene, mix of isomers > RS - RSE - For electronic use****RS**

Description .....	Clear liquid	Phosphate .....	≤1 ppm	Cd .....	≤0.005 ppm	Ni .....	≤0.01 ppm
Colour (APHA) .....	≤10	Heavy metals (Pb) .....	≤0.1 ppm	Co .....	≤0.01 ppm	Pb .....	≤0.01 ppm
Identification .....	Positive	Toluene .....	≤5000 ppm	Cr .....	≤0.01 ppm	Pt .....	≤0.05 ppm
Ready carbonizable substances .....	Conform	Total sulphur .....	≤3 ppm	Cu .....	≤0.01 ppm	Sb .....	≤0.01 ppm
Density at 20° C .....	0.864 ÷ 0.870	Ag .....	≤0.02 ppm	Fe .....	≤0.05 ppm	Sn .....	≤0.02 ppm
Boiling point .....	137.0 ÷ 140.0 °	Al .....	≤0.05 ppm	Ga .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Resistivity .....	≥1 Mohm.cm	As .....	≤0.01 ppm	In .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Water (K.F.) .....	≤100 ppm	Au .....	≤0.05 ppm	K .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Residue on evaporation .....	≤5 ppm	B .....	≤0.01 ppm	Li .....	≤0.02 ppm	V .....	≤0.05 ppm
Acidity (HCl) .....	≤5 ppm	Ba .....	≤0.1 ppm	Mg .....	≤0.1 ppm	Zn .....	≤0.01 ppm
Alcalinity (NH <sub>3</sub> ) .....	≤1 ppm	Be .....	≤0.02 ppm	Mn .....	≤0.01 ppm	Zr .....	≤0.05 ppm
Benzene .....	≤100 ppm	Bi .....	≤0.02 ppm	Mo .....	≤0.05 ppm		
Chloride .....	≤3 ppm	Ca .....	≤0.2 ppm	Na .....	≤0.1 ppm		

Code	Size	Packaging	Notes
492358	1 l	Glass bottle	
492359	2.5 l	Glass bottle	

**Xylene, mix of isomers > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP****RPE**

Description .....	Clear liquid	Residue on evaporation .....	≤10 ppm	Al .....	≤0.5 ppm	Mg .....	≤0.1 ppm
Colour (APHA) .....	≤10	Acidity (benzoic acid) .....	≤14 ppm	Ba .....	≤0.1 ppm	Mn .....	≤0.02 ppm
Identification (I.R.) .....	Positive	Alcalinity (NH <sub>3</sub> ) .....	≤2 ppm	Ca .....	≤0.5 ppm	Ni .....	≤0.02 ppm
Boiling point .....	137 - 140 °C	Benzene .....	≤ 50 ppm	Cd .....	≤0.05 ppm	Pb .....	≤0.05 ppm
Ready carbonizable substances .....	Conform	Ethylbenzene .....	≤25 %	Co .....	≤0.02 ppm	Sn .....	≤0.1 ppm
Density at 20° C .....	0.864 ÷ 0.870	Tiophene .....	≤1 ppm	Cr .....	≤0.02 ppm	Zn .....	≤0.05 ppm
Refractive index at 20°C .....	1.4947 ÷ 1.4987	Toluene .....	≤0.5 %	Cu .....	≤0.02 ppm	Assay (isomeric mixture) .....	≥99.0 %
Water (K.F.) .....	≤200 ppm	Total sulphur .....	≤3 ppm	Fe .....	≤0.1 ppm	Any single impurity .....	≤ 0.5 %

Code	Size	Packaging	Notes
492301	1 l	Glass bottle	
492306	2.5 l	Glass bottle	
492305	5 l	Plastic tank	
492303	23 kg	Metal drum	
492304	170 kg	Metal drum	

**Xylene, mix of isomers > RE - Pure - Low content in benzene****RE**

Description .....	Clear liquid	Refractive index at 20°C .....	1.4917 ÷ 1.5017	Water (K.F.) .....	≤ 200 ppm	Assay (isomeric mix) .....	≥ 98.5 %
Identity (I.R.) .....	Positive	Boiling point .....	137.5 ÷ 139.5 °C	Benzene .....	≤ 50 ppm		
Density at 20°C .....	0.862 ÷ 0.872	Residue on evaporation .....	≤ 100 ppm	Total sulphur .....	≤ 100 ppm		

Code	Size	Packaging	Notes
392602	1 l	Glass bottle	
392603	2.5 l	Glass bottle	
528251	5 l	Plastic tank	
392605	23 kg	Metal drum	
392608	170 kg	Metal drum	
528252	200 l	Metal drum	



## o-Xylene

• o-Xilene • o-xylène • o-Xileno • o-Xylol

Synonym:

1,2-Dimethylbenzene

$C_6H_4(CH_3)_2$   
Molecular Weight: 106,17  
CAS: 95-47-6  
EEC-N: 202-422-2

**Classification transport**  
ONU: 1307  
Transport Hazard class: 3  
Packing group II



### Danger

H226-H312-H332-H315-H319-H335-H304  
P210-P280-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P233

### o-Xylene > RPE - For analysis

RPE

Description .....	Clear colourless liquid	Ready carbonizable substances.....	Conform	Water (K.F.) .....	≤300 ppm	Tiophene .....	≤1 ppm
Identification .....	Positive	Density at 20° C .....	0.875 ÷ 0.885	Acidity (benzoic acid) .....	≤14 ppm	Toluene.....	≤0.15 %
Alcohol miscibility.....	Complete	Refractive index at 20°C. 1.5028 ÷ 1.5088		Alcalinity (NH3).....	≤2 ppm	Total sulphur .....	≤5 ppm
Chloroform miscibility .....	Complete	Boiling point.....	139.0 ÷ 149.0 °C	Benzene .....	≤ 500 ppm	Assay (GLC) .....	≥99 %
Diethyl ether miscib.....	Complete	Freezing point .....	-23.5 ÷ -26.5 °C	Ethylbenzene.....	≤0.15 %		

Code	Size	Packaging	Notes
492403	1 l	Glass bottle	
492404	2.5 l	Glass bottle	
492401	24 kg	Metal drum	



## Xylenecyanol

• Xilencianolo FF • Xylèncyanol FF • Xilencianol FF • Xylolcyanol

Synonym:

• Xylene Cyanol FF  
• Acid blue 147

$C_{25}H_{27}N_2NaO_6S_2$   
Molecular Weight: 538,61  
CAS: 2650-17-1  
EEC-N: 220-167-5



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Xylenecyanol > RPE - For analysis

RPE

Description .....	Cristalli verde intenso	Identification .....	Positive	Dye content .....	≥ 70 %	UV Lambda max.....	612 to 616 nm
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Code	Size	Packaging	Notes
492211	1 g	Glass bottle	
492212	25 g	Glass bottle	

**Dye for microscopy (histology). Acid base indicator. C.I. 42135**



## 2,4-Xylenol

• 2,4-Xilenolo • 2,4-Xylenol • 2,4-Xileno • 2,4-Xylenol

Synonym:

2,4-Dimethylphenol | 4-Hydroxy-m-xylene

$(CH_3)_2C_6H_3OH$   
Molecular Weight: 122,17  
CAS: 105-67-9  
EEC-N: 203-321-6

**Classification transport**  
ONU: 3430  
Transport Hazard class: 6.1  
Packing group II



### Danger

H301-H311-H314-H411  
P280-P301+P310a-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338

### 2,4-Xylenol > RE - Pure

RE

Description .....	Yellow clear liquid	Density at 20° C .....	1.015 ÷ 1.021	Residue on ignition.....	≤100 ppm
Identification .....	Positive	Boiling point.....	210.5 ÷ 212.5 °C	Assay (GC) .....	≥ 98.0 %

Code	Size	Packaging	Notes
492661	25 ml	Glass bottle	

**Xylenol orange**

• Arancio xilenolo • Orange de xylénol • Naranja de xilenol • Xylenolorange

## Synonym:

- Xylenol Orange disodium salt
- Cresolsulfonphtalein disodium salt

$C_{31}H_{30}O_{13}N_2SNa_2$   
 Molecular Weight: 716,63  
 CAS: 1611-35-4  
 EEC-N: 216-553-8

**Warning**

H315-H319-H335  
 P261-P271-P304+P340-P305+P351+P338-  
 P332+P313-P403+P233

**Xylenol orange > RPE - For analysis****RPE**

Description ..... Orange crystalline powder Identification ..... Positive Sens.as complex.indicat ..... Conform

Code	Size	Packaging	Notes
423597	1 g	Glass bottle	
423598	5 g	Glass bottle	
423599	25 g	Glass bottle	

**Complexometric indicator****D(+)-Xylose**

• D(+)-Xilosio • D(+)-Xylose • D(+)-Xilosa • D(+)-Xylose

$C_5H_{10}O_5$   
 Molecular Weight: 150,13  
 CAS: 58-86-6  
 EEC-N: 200-400-7

**D(+)-Xylose > RPE - For analysis****RPE**

Description ..... White crystalline powder Specific optical rotation..... +19 ÷ +21 ° Chloride..... ≤50 ppm Residue on ignition..... ≤0.1 %  
 Identification ..... Positive Water (K.F.)..... ≤0.2 % Heavy metals (Pb)..... ≤10 ppm Sulphate..... ≤50 ppm

Code	Size	Packaging	Notes
492803	50 g	Glass bottle	
492804	100 g	Glass bottle	

**D(+)-Xylose > RE - Pure****RE**

Description ..... Whyte crystalline powder Specific optical rotation... +19.0 ÷ +20.0 ° Chloride..... ≤50 ppm Sulphate..... ≤50 ppm  
 Identification ..... Positive Loss on drying ..... ≤0.3 % Heavy metals (Pb)..... ≤10 ppm As ..... ≤1 ppm  
 Melting point..... 144 ÷ 148 ° C Acidity (acetic acid)..... ≤300 ppm Residue on ignition..... ≤0.1 %

Code	Size	Packaging	Notes
392631	500 g	Plastic bottle	
392635	25 kg	Plastic bucket	



## Yeast dried

• Lievito di birra secco • Levure de bière sèche • Levadura de cerveza seco • Bierhefe trocken

### Yeast dried > RE - Pure

RE

Description ..... P.v-gran nocciola odore ca Identification ..... Positive

Code	Size	Packaging	Notes
348854	100 g	Plastic bottle	



## Ytterbium standard solution

• Iterbio standard soluzione • Ytterbium solution standard • Iterbio, solución patrón • Ytterbium-Standardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Ytterbium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505947	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505948	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Ytterbium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504071	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504073	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504075	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
504077	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Ytterbium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507768	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507523	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Yttrium standard solution

• Itrio standard soluzione • Yttrium solution standard • Itrio, solución patrón • Yttrium-Standardlösung

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Yttrium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505942	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505945	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505943	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Yttrium standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504061	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504063	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
504065	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid
504067	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Yttrium standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507767	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
507522	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z





## Ziehl-Neelsen's reagent

• Ziehl-Neelsen reattivo soluzione • Réactif de Ziehl-Neelsen en solution • Ziehl-Neelsen reactivo solución • Ziehl-Neelsens Reagenz

### Classification transport

ONU: 2810  
Transport Hazard class: 6.1  
Packing group II



### Danger

H331-H314-H341  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P308+P313-  
P403+P233

## Ziehl-Neelsen's reagent > RS - For bacteriology

RS

Description ..... Red liquid Identification ..... Positive Assorbanza a 554 nm ..... ≥ 0.14

Code	Size	Packaging	Notes
493101	250 ml	Plastic bottle	In Vitro Diagnostic Medical Device
493102	1 l	Plastic bottle	In Vitro Diagnostic Medical Device

**Dye for bacteriology. Contains carbol fuchsin.**



## Zinc, foil

• Zinco, lastra • Zinc, lames • Zinc, hojas • Zink, Folie

Zn  
Molecular Weight: 65,38  
CAS: 7440-66-6  
EEC-N: 231-175-3

## Zinc, foil > RPE - For analysis

RPE

Description ..... Grey foil Identification ..... Positive Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
493507	1 kg	Bag	



## Zinc, granular

• Zinco, granuli • Zinc, granule • Zinc, granulada • Zink, körnig

Zn  
Molecular Weight: 65,38  
CAS: 7440-66-6  
EEC-N: 231-175-3

### Classification transport

ONU: 1436  
Transport Hazard class: 4.3  
Packing group II



### Danger

H250-H260-H410  
P210-P222-P223-P231a+P232-P280-P402+P404

## Zinc, granular > RPE - For analysis

RPE

Description ..... Granuli grigi As ..... ≤ 0.15 ppm Pb ..... ≤ 500 ppm  
Identification ..... Positive Fe ..... ≤ 200 ppm

Code	Size	Packaging	Notes
493451	500 g	Plastic bottle	0.5 - 1 mm
493307	1 kg	Plastic bottle	1 - 7 mm
493309	5 kg	Plastic bottle	1 - 7 mm
493303	25 kg	Glass bottle	1 - 7 mm

**Zinc, powder**

• Zinco, polvere • Zinc, poudre • Zinc, polvo • Zink, Pulver

Zn

Molecular Weight: 65,38

CAS: 7440-66-6

**Classification transport**

ONU: 3077

Transport Hazard class: 9

Packing group III

**Warning**

H410

P273-P391-P501a

**Zinc, powder > RE - Pure****RE**

Description ..... Grey powder Identification ..... Positive Assay (oxidimetric) ..... ≥85 %

Code	Size	Packaging	Notes
493705	250 g	Glass bottle	
493707	1 kg	Plastic bottle	
493702	25 kg	Metal drum	

**Zinc, activated**

• Zinco, attivato • Zinc activé • Zinc, activado • Zink aktiviert

Zn

CAS: 7440-66-6

**Classification transport**

ONU: 3077

Transport Hazard class: 9

Packing group III

**Warning**

H410

P273-P391-P501a

**Zinc, activated > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611096501	100 g	Plastic bottle	Ref Ph.Eur 1096501

**Zinc standard solution**

• Zinco standard soluzione • Zinc solution standard • Zinc, solución patrón • Zink-Standardlösung

Zn

Molecular Weight: 65,38

CAS: 7440-66-6

**Classification transport**

ONU: 3264

Transport Hazard class: 8

Packing group III

**Warning**

H290

P234-P390-P406

**Zinc standard solution > RS - For analysis according to Ph. Eur. Chap. 4.2.1****RS**

Code	Size	Packaging	Notes
612000800	100 g	Plastic bottle	Ref Ph.Eur 2000800

**Zinc standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615003402	100 ml	Plastic bottle	A 10 ppm solution: to dilute according to Ref Ph.Eur 5003402
615003403	100 ml	Plastic bottle	A 5 ppm solution: to dilute according to Ref Ph.Eur 5003403
615003409	100 ml	Plastic bottle	A 100 ppm solution: to dilute according to Ref Ph.Eur 5003401

**Zinc standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505952	100 ml	Plastic bottle	conc. 10 ppm. Matrix: Nitric acid
505955	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid
505953	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Zinc standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504081	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
504085	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid
504083	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
504087	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Zinc standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507769	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497685	100 ml	Glass bottle	conc. 1.000 ppm Matrix: Hydrochloric acid
507477	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid
E497681	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Zinc standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
493151		Plastic ampoule	conc. 1.000 ppm Matrix: Nitric acid - Volume: 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Zinc acetate dihydrate

• Zinco acetato diidrato • Zinc acétate dihydraté • Zinc acetato dihidrato • Zinkacetatdihydrat

Zn(CH<sub>3</sub>COO)<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 219,49  
CAS: 5970-45-6



### Warning

H319-H410  
P264-P280i-P305+P351+P338-P337+P313-P391-P501a

## Zinc acetate dihydrate > RPE - For analysis

RPE

Description ..... White shining crystals Phosphate ..... ≤20 ppm Cd ..... ≤5 ppm Mn ..... ≤5 ppm  
Identification ..... Positive Water-insoluble matter ..... ≤30 ppm Cu ..... ≤5 ppm Ni ..... ≤5 ppm  
pH sol. 5% at 25° C ..... 6.2 ÷ 6.6 Sulphate ..... ≤10 ppm Fe ..... ≤ 5 ppm Pb ..... ≤5 ppm  
Chloride ..... ≤5 ppm As ..... ≤0.4 ppm K ..... ≤100 ppm Assay (complexometric) ..... ≥99.5 %

Code	Size	Packaging	Notes
493806	100 g	Plastic bottle	
493807	1 kg	Plastic bottle	
493803	25 kg	Plastic bucket	

**Zinc carbonate basic**

• Zinco carbonato basico • Zinc carbonate basique • Zinc carbonato básico • Zinkcarbonat basisch

$Zn_5(CO_3)_2(OH)_6$   
 Molecular Weight: 548,97  
 CAS: 5263-02-5  
 EEC-N: 226-076-7

**Warning**

H315-H319-H410  
 P264-P280a-P305+P351+P338-P332+P313-  
 P362+P364-P337+P313

**Zinc carbonate basic > RPE - For analysis****RPE**

Description ..... White powder  
 Identification ..... Positive  
 Sulphate ..... ≤ 0.5 %

Cd ..... ≤ 10 ppm  
 Cu ..... ≤ 5 ppm  
 Fe ..... ≤ 20 ppm

Mn ..... ≤ 20 ppm  
 Ni ..... ≤ 5 ppm  
 Pb ..... ≤ 5 ppm

Loss on drying ..... ≤ 3 %  
 Loss on ignition ..... 25.5 ± 0.5 %  
 Assay (alkalimetric) ..... ≥ 69 % (ZnO)

Code	Size	Packaging	Notes
494006	500 g	Plastic bottle	

**Zinc chloride anhydrous**

• Zinco cloruro anidro • Zinc chlorure anhydre • Zinc cloruro anhidro • Zinkchlorid wasserfrei

Synonym:  
Dichlorozinc

$ZnCl_2$   
 Molecular Weight: 136,28  
 CAS: 7646-85-7  
 EEC-N: 231-592-0

**Classification transport**

ONU: 2331  
 Transport Hazard class: 8  
 Packing group III

**Danger**

H302-H314-H410  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338

**Zinc chloride anhydrous > RPE - For analysis - ACS****RPE**

Description ..... White crystals  
 Identification ..... Positive  
 Ammonium ..... ≤ 50 ppm  
 Diluted HCl-ins. matter ..... ≤ 50 ppm

Nitrate ..... ≤ 30 ppm  
 Oxichloride(ZnO) ..... Conform  
 Sulphate ..... ≤ 100 ppm  
 Ca ..... ≤ 600 ppm

Fe ..... ≤ 10 ppm  
 K ..... ≤ 200 ppm  
 Mg ..... ≤ 100 ppm  
 Na ..... ≤ 500 ppm

Pb ..... ≤ 50 ppm  
 Assay (argentimetric) ..... ≥ 97.0 %

Code	Size	Packaging	Notes
494104	100 g	Plastic bottle	
494105	250 g	Plastic bottle	
494107	1 kg	Plastic bottle	
494106	10 kg	Plastic tank	

**Zinc chloride anhydrous > RE - Pure****RE**

Description ..... White crystalline powder  
 Identification ..... Positive

Sulphate ..... ≤ 0.05 %  
 Fe ..... ≤ 10 ppm

Assay (complexometric) ..... ≥ 97 %

Code	Size	Packaging	Notes
393007	1 kg	Plastic bottle	
393009	5 kg	Plastic tank	

**Zinc chloride solution 60%**

• Zinco cloruro soluzione 60% • Zinc chlorure solution à 60% • Zinc cloruro solución 60% • Zinkchloridlösung 60%

Synonym:  
Dichlorozinc

$ZnCl_2$   
 Molecular Weight: 136,28  
 CAS: 7646-85-7

**Classification transport**

ONU: 1840  
 Transport Hazard class: 8  
 Packing group III

**Danger**

H302-H314-H335-H410  
 P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P310a-P305+P351+P338-P403+P233

**Zinc chloride solution 60% > RPE - For analysis****RPE**

Description ..... Liquido incolore  
 Identification ..... Positive  
 Density at 20° C ..... ≥ 1.750

Code	Size	Packaging	Notes
E494301	1 l	Bottle	



## Zinc chloride solution, iodinated

- Zinco cloruro soluzione, iodata • Chlorure de zinc - Solution iodée • Zinc cloruro solución, yodata
- Zinkchlorid - Jodlösung

Synonym:  
Dichlorozinc

Molecular Weight: 136,28

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group III



### Danger

H302-H314-H335-H372-H410  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

## Zinc chloride solution, iodinated > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611096603	500 ml	Glass bottle	Ref Ph.Eur 1096602

Storage: protected from light



## Zinc chloride-formic acid solution

- Zinco cloruro - acido formico soluzione • Chlorure de zinc - acide formique - Solution • Zinc cloruro - ácido fórmico solución
- Zinkchlorid-Ameisensäure - Lösung

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group II



### Danger

H302-H332-H314-H335-H411  
P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P310a-P305+P351+P338-P403+P233

## Zinc chloride-formic acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611096601	1 l	Glass bottle	Ref Ph.Eur 1096601



## Zinc dibenzylthiocarbamate

- Zinco dibenzilditiocarbammato • Zinc dibenzylthiocarbamate • Zinc dibencilditiocarbamat • n,n-Zinkdibenzylthiocarbamat

$[(C_6H_5CH_2)_2NCSS]_2Zn$   
Molecular Weight: 610,2  
CAS: 14726-36-4  
EEC-N: 238-778-0

## Zinc dibenzylthiocarbamate > RPE - For analysis

RPE

Description ..... White powder Identification ..... Positive Melting point ..... 183 ÷ 185 ° C Assay (complexometric) ..... ≥94 %

Code	Size	Packaging	Notes
494311	10 g	Glass bottle	



## Zinc nitrate hexahydrate

- Zinco nitrato esaidrato • Zinc nitrate hexahydraté • Zinc nitrato hexahidratado • Zinknitrathexahydrat

$Zn(NO_3)_2 \cdot 6H_2O$   
Molecular Weight: 297,47  
CAS: 10196-18-6  
EEC-N: 231-943-8

### Classification transport

ONU: 1514  
Transport Hazard class: 5.1  
Packing group II



### Danger

H272-H302-H315-H319-H335  
P210-P261-P280-P304+P340-P305+P351+P338-  
P403+P233

## Zinc nitrate hexahydrate > RPE - For analysis

RPE

Description ..... White semitransparent crystals Chloride ..... ≤ 100 ppm Pb ..... ≤ 100 ppm  
Identification ..... Positive Fe ..... ≤ 20 ppm Assay (complexometric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
494506	100 g	Plastic bottle	
494507	1 kg	Plastic bottle	

**Zinc oxide**

• Zinco ossido • Zinc oxyde • Zinc óxido • Zinkoxid

ZnO  
Molecular Weight: 81,37  
CAS: 1314-13-2  
EEC-N: 215-222-5

**Warning**

H410  
P273-P391-P501a

**Zinc oxide > RPE - For analysis****RPE**

Description .....	White powder	Phosphate .....	≤5 ppm	As .....	≤0.5 ppm	Ni .....	≤10 ppm
Identification .....	Positive	Dil. H <sub>2</sub> SO <sub>4</sub> -ins. matter .....	≤100 ppm	Ca .....	≤50 ppm	Pb .....	≤50 ppm
Alcalinity .....	Conform	Nitrate .....	≤20 ppm	Cd .....	≤10 ppm	Zn .....	≤20 ppm
Loss on ignition .....	≤0.5 %	Subst. not ppt. (NH <sub>4</sub> ) <sub>2</sub> S .....	≤0.1 %	Cu .....	≤5 ppm	Assay (alkalimetric) .....	≥99.0 %
Carbonate .....	≤0.2 %	Subst. reducing KMnO <sub>4</sub> .....	≤10 ppm(15m)	Fe .....	≤10 ppm		
Chloride .....	≤5 ppm	Total sulphur .....	≤50 ppm	Mn .....	≤5 ppm		

Code	Size	Packaging	Notes
494606	100 g	Plastic bottle	
494607	1 kg	Plastic bottle	
494602	25 kg	Plastic bucket	

**Zinc oxide > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP****ERBApharm**

Description .....	Yellowish powder	Fe - other heavy metals ... Conform USP-NF	Fe .....	≤200 ppm	Origin (BSE/TSE) .....	Synthesis
Identification .....	Positive	Loss on calcin. 500°C .....	Pb .....	≤50 ppm	Residual solvents (Current ICH) .....	Conform
Alcalinity .....	Conform Ph.Eur.	As .....	Assay (complexometric) .....	99.0 ÷ 100.5 %		
Coal and acid ins.matt. ....	Conform Ph.Eur.	Cd .....	s.s.c.			

Code	Size	Packaging	Notes
393507	1 kg	Plastic bottle	
393509	5 kg	Plastic tank	
393503	25 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**

**Zinc stearate**

• Zinco stearato • Zinc stéarate • Zinc estearato • Zinkstearat

Synonym:  
Stearic acid zinc salt

C<sub>36</sub>H<sub>70</sub>O<sub>4</sub>Zn  
Molecular Weight: 632,33  
CAS: 557-05-1  
EEC-N: 209-151-9

**Warning**

H335  
P261-P271-P304+P340-P312a-P403+P233-P501a

**Zinc stearate > ERBApharm - Vegetal origin - According to pharmacopoeia: Ph.Eur.-USP-FU****ERBApharm**

Description .....	White powder	Acidity ind. fat acids .....	195 ÷ 210	As .....	≤ 1.5 ppm	Assay as ZnO (complexometric) .....	12.5 ÷ 14.0 %
Identification .....	Positive	Freezing point .....	≥54 °C	Cd .....	≤ 5.0 ppm		
Appearance of solution .....	Conform Ph.Eur.	Alkaly-alkaline earth .....	≤ 1.0 %	Pb .....	≤ 10 ppm		
Solution appea. fat ac. ....	Conform Ph.Eur.	Chloride .....	≤ 250 ppm	Assay as Zn (complexometric) .....	10.0 ÷ 12.0 %		
Acidity or alkalinity .....	Conform Ph.Eur.	Sulphate .....	≤ 0.6 %				

Code	Size	Packaging	Notes
395451	1 kg	Plastic bottle	
395452	10 kg	Plastic bucket	

**In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade**





## Zinc sulfate heptahydrate

• Zinco solfato eptaidrato • Zinc sulfate heptahydraté • Zinc sulfato heptahidratado • Zink-Sulfat heptahydrat

ZnSO<sub>4</sub>·7H<sub>2</sub>O  
Molecular Weight: 287,54  
CAS: 7446-20-0



### Danger

H302-H318-H410  
P264-P280i-P301+P312a-P305+P351+P338-P310a-P501a

### Zinc sulfate heptahydrate > RPE - For analysis - ACS

RPE

Description ..... White crystals  
Identification ..... Positive  
pH sol. 5% at 25° C ..... 4.4 ÷ 6.0  
Ammonium ..... ≤10 ppm  
Chloride ..... ≤5 ppm  
Water-insoluble matter ..... ≤100 ppm  
Nitrate ..... ≤20 ppm  
Ca ..... ≤50 ppm  
Fe ..... ≤10 ppm  
K ..... ≤100 ppm  
Mg ..... ≤50 ppm  
Mn ..... ≤3 ppm  
Na ..... ≤500 ppm  
Pb ..... ≤30 ppm  
Assay (complexometric) .... 99.0 ÷ 103.0 %

Code	Size	Packaging	Notes
494905	100 g	Plastic bottle	
494906	500 g	Plastic bottle	
494907	1 kg	Plastic bottle	
494909	5 kg	Plastic jar	
494901	25 kg	Drum	

### Zinc sulfate heptahydrate > ERBApharm - According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBApharm

Description ..... White crystalline powder  
Identification ..... Positive  
Appearance of solution ..... Conform Ph.Eur.  
Acidity ..... Conform USP-NF  
pH sol. 5% at 25° C ..... 4.4 ÷ 5.6  
Chloride ..... ≤300 ppm  
Alkaline, alk. earth met ..... ≤0.9 %  
As ..... ≤14 ppm  
Fe ..... ≤100 ppm  
Pb ..... ≤20 ppm  
Assay (complexometric) .... 99.0 ÷ 104.0 %

Code	Size	Packaging	Notes
394007	1 kg	Plastic bottle	
394009	5 kg	Plastic tank	
394001	25 kg	Plastic bucket	

*In case of Excipient use, please contact us to inquire about the availability of this product in Xcipharm™ grade*



## Zinc sulfate monohydrate

• Zinco solfato monoidrato • Zinc sulfate monohydrate • Zinc sulfato monohidratado • Zinksulfat-Monohydrat

ZnSO<sub>4</sub>·H<sub>2</sub>O  
Molecular Weight: 179,45  
CAS: 7446-19-7  
EEC-N: 231-793-3

### Classification transport

ONU: 3077  
Transport Hazard class: 9  
Packing group III



### Danger

H302-H318-H410  
P264-P280i-P301+P312a-P305+P351+P338-P310a-P501a

### Zinc sulfate monohydrate > RPE - For analysis

RPE

Description ..... White fine powder  
Identification ..... Positive  
Assay (Zn) ..... ≥ 35 %  
Water (K.F.) ..... ≤ 1 %  
pH sol. 5% at 25°C ..... 4 ÷ 6  
Chloride ..... ≤ 1 %  
Mn ..... ≤ 30 ppm  
Fe ..... ≤ 30 ppm  
Pb ..... ≤ 10 ppm  
Cu ..... ≤ 5 ppm  
Cd ..... ≤ 10 ppm  
Ni ..... ≤ 15 ppm  
As ..... ≤ 1 ppm  
Hg ..... ≤ 0.1 ppm

Code	Size	Packaging	Notes
495005	250 g	Plastic bottle	
495007	1 kg	Plastic bottle	



## Zinc sulfate 0.1 mol/l (0.2N)

• Zinco solfato 0.1 mol/l (0.2N) • Zinc sulfate 0.1 mol/l (0.2N) • Zinc sulfato 0.1 mol/l (0.2N) • Zink-Sulfat 0.1 mol/l (0.2N)

ZnSO<sub>4</sub>·7H<sub>2</sub>O  
Molecular Weight: 287,54  
CAS: 7446-20-0

### Zinc sulfate 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613008601	500 ml	Plastic bottle	Ref Ph.Eur 3008600
613008600	1 l	Plastic bottle	Ref Ph.Eur 3008600

**Zinc sulfate 0.1 mol/l (0.2N) > RS - For analysis according to JP**

RS

Code	Size	Packaging	Notes
616000050	1 l	Plastic bottle	Zinc (standard reagent)/ hydrochloric acid / bromine TS /water

**Zinc sulfate 0.1 mol/l (0.2N) > RS - For analysis according to USP**

RS

Code	Size	Packaging	Notes
617000291	1 l	Bottle	

**Zinc sulfate 0.1 mol/l (0.2N) > RPE - For analysis**

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.1996 - 0.2004 N

Code	Size	Packaging	Notes
494921	1 l	Plastic bottle	

**Zinc sulfate 0.05 mol/l (0.05N)**

• Zinco solfato 0.05 mol/l (0.05N) • Zinc sulfate 0.05 mol/l (0.05N) • Zinc sulfato 0.05 mol/l (0.05N) • Zink-Sulfat 0.05 mol/l

ZnSO<sub>4</sub>·7H<sub>2</sub>O  
Molecular Weight: 287,54  
CAS: 7446-20-0

**Warning**

H319-H412  
P264-P273-P280i-P305+P351+P338-P337+P313-  
P501a

**Zinc sulfate 0.05 mol/l (0.05N) > RPE - For analysis**

RPE

Description ..... Clear colourless liquid Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
494931	1 l	Plastic bottle	

**Zinc sulfide**

• Zinco solfuro • Zinc sulfure • Zinc sulfuro • Zinksulfid

Synonym:  
Zinc sulphide

ZnS  
Molecular Weight: 97,43  
CAS: 1314-98-3  
EEC-N: 215-251-3

HEU031

**Zinc sulfide > RPE - For analysis**

RPE

Description ..... White-green powder Ammonium ..... ≤500 ppm Heavy metals (Pb) ..... ≤20 ppm Assay (complexometric) ..... ≥98 %  
Identification ..... Positive Chloride ..... ≤500 ppm Fe ..... ≤50 ppm

Code	Size	Packaging	Notes
495105	250 g	Plastic bottle	
495107	1 kg	Plastic bottle	

**Zirconium powder**

• Zirconio polvere • Zirconium en poudre • Zirconio polvo • Zirkoniumpulver

Zr  
Molecular Weight: 91,22  
CAS: 7440-67-7  
EEC-N: 231-176-9

**Classification transport**

ONU: 2008  
Transport Hazard class: 4.2  
Packing group I

**Danger**

H250-H260  
P210-P222-P223-P231a+P232-P280-P402+P404

**Zirconium powder > RPE - For analysis**

RPE

Description ..... Dark grey powder Identification ..... Positive Assay (gravimetric) ..... ≥97 %

Code	Size	Packaging	Notes
495202	25 g	Glass bottle	



## Zirconium standard solution

• Zirconio standard soluzione • Zirconium solution standard • Zirconio, solución patrón • Zirkonium-Standardlösung

### Zirconium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003500	100 ml	Plastic bottle	A 1 g/l solution Ref Ph.Eur 5003500

### Zirconium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505957	100 ml	Plastic bottle	conc. 10 ppm Matrix: Nitric acid and hydrofluoric acid
505958	100 ml	Plastic bottle	conc. 100 ppm Matrix: Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Zirconium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504091	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid
504095	100 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid
504093	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid
504097	500 ml	Plastic bottle	conc. 10.000 ppm Matrix: Hydrochloric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Zirconium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507770	100 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid
507524	500 ml	Plastic bottle	conc. 1.000 ppm Matrix: Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Zirconium (IV) oxide

• Zirconio ossido • Zirconium (IV) oxyde • Zirconio (IV) óxido • Zirkonium (IV) oxid

Synonym:  
Zirconia

ZrO<sub>2</sub>  
Molecular Weight: 123,22  
CAS: 1314-23-4  
EEC-N: 215-227-2

### Zirconium (IV) oxide > RPE - For analysis

RPE

Description ..... Polvere bianca Chloride ..... ≤100 ppm Assay (complexometric) ..... ≥99 %  
Identification ..... Positive Fe ..... ≤200 ppm

Code	Size	Packaging	Notes
495305	250 g	Glass bottle	

**Zirconyl nitrate**

• Zirconile nitrato • Zirconyle nitrate • Zirconio oxinitrato • Zirconyl nitrat

Synonym:

*Zirconium(IV) oxynitrate hydrate* $ZrO(NO_3)_2 \cdot nH_2O$ 

Molecular Weight: 231,23 (an,)

CAS: 14985-18-3

EEC-N: 237-529-3

**Classification transport**

ONU: 1477

Transport Hazard class: 5.1

Packing group II

**Danger**

H272-H315-H319-H335

P210-P261-P280-P304+P340-P305+P351+P338-P403+P233

**Zirconyl nitrate > RE - Pure****RE**

Description ..... White powder    Identification ..... Positive    Hf..... ≤ 4 %    Assay (gravimetric) ..... ≥ 99.4 %

Code	Size	Packaging	Notes
396105	50 g	Glass bottle	

**Zirconyl nitrate**

• Zirconile nitrato • Zirconyle nitrate • Zirconio oxinitrato • Zirconyl nitrat

Synonym:

*Zirconium(IV) oxynitrate hydrate* $ZrO(NO_3)_2 \cdot nH_2O$ 

Molecular Weight: 231,23 (an,)

CAS: 14985-18-3

EEC-N: 237-529-3

**Classification transport**

ONU: 1477

Transport Hazard class: 5.1

Packing group II

**Danger**

H272-H315-H319-H335

P210-P261-P280-P304+P340-P305+P351+P338-P403+P233

**Zirconyl nitrate > RE - Pure****RE**

Description ..... White powder    Identification ..... Positive    Hf..... ≤ 4 %    Assay (gravimetric) ..... ≥ 99.4 %

Code	Size	Packaging	Notes
396105	50 g	Glass bottle	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

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- Stability studies

## ■ DOCUMENTATION

- BSE/TSE statement
- OGM statement
- Residual solvents statement
- ICH Q3D
- Risk assessment (2015/C95/02)

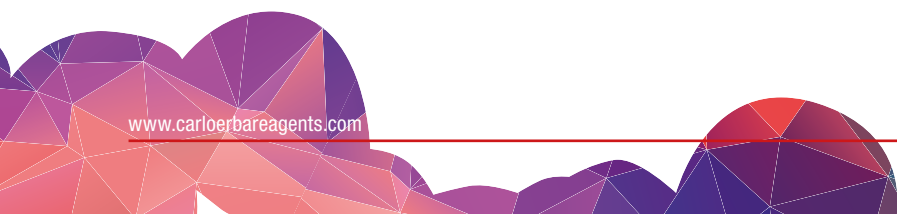
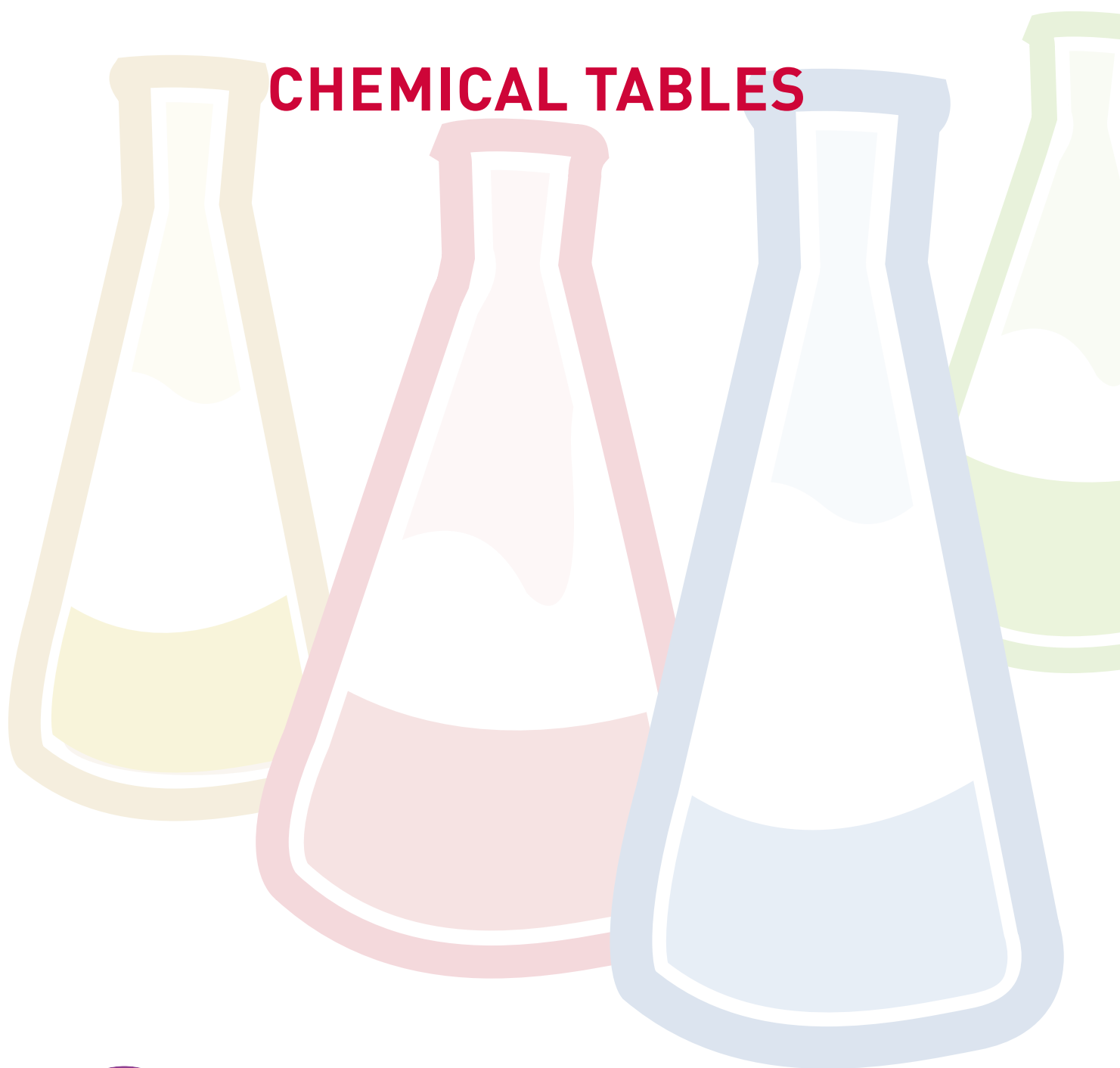
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# CHEMICAL TABLES





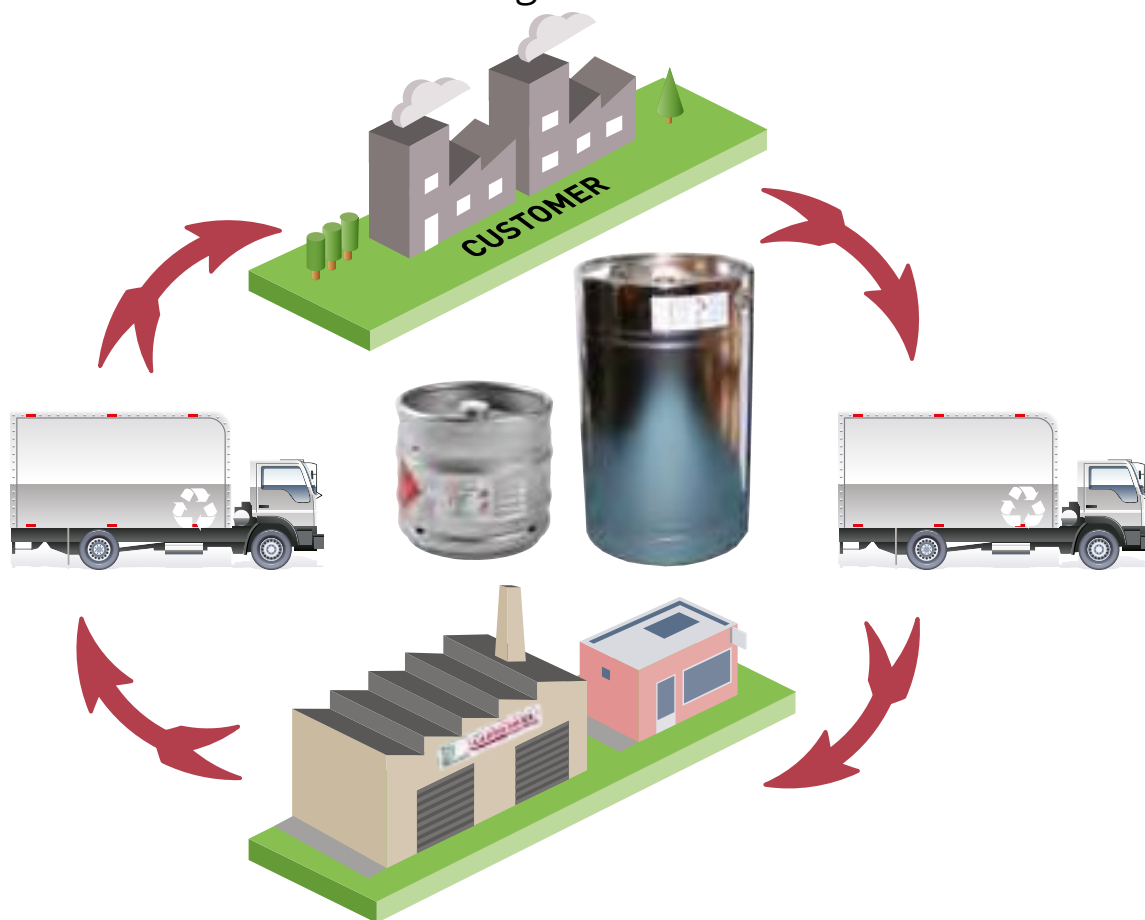
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# PERIODIC TABLE OF THE ELEMENTS



Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
1	H																		
2	Li	Be											B	C	N	O	F	Ne	
3	Na	Mg											Al	Si	P	S	Cl	Ar	
4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	
5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	
6	Cs	Ba	Lanthanides Series		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
7	Fr	Ra	Actinides Series		Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Nh	Fl	Mc	Lv	Ts	Og
8	Lanthanides		La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu		
	Actinides		Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr		



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# MEASUREMENTS AND SYMBOLS

Unit Name	Symbols	Dimension
Ångström	Å	Length
Becquerel	Bq	Activity
Calorie	cal	Heat quantity
Candela	cd	Luminous intensity
Kilogram	kg	Mass
Coulomb	C	Electric charge
Second	s	Time
Dyne	dyn	Force
Dyne per centimetre	dyn/cm	Surface tension
Erg	erg	Work, energy
Farad	F	Electric capacitance
Ampere	A	Electric current
Herz	Hz	Frequency
Joule	J	Energy, work
Metre	m	Length
Micron	$\mu$ o $\mu$ m	Length
Mole	mol	Amount of substance
Newton	N	Force
Pascal	Pa	Pressure
Poise	P o Po	Dynamic viscosity
Liter	L	Volume
Stokes	St	Kinematic viscosity
Kelvin	K	Temperature
Volt	V	Electric potential
Watt	W	Power

# DECIMAL UNIT MULTIPLES AND SUBMULTIPLES

## Multiples

Factor	Name	Decimal number	Prefix	Symbol
$10^{18}$	trillion	1 000 000 000 000 000 000	exa	E
$10^{15}$	–	1 000 000 000 000 000	penta	P
$10^{12}$	one thousand bilion	1 000 000 000 000	tera	T
$10^9$	bilion	1 000 000 000	giga	G
$10^6$	milion	1 000 000	mega	M
$10^3$	one thousand	1 000	kilo	k
$10^2$	one hundred	100	hecto	h
$10^1$	ten	10	deca	da
$10^0$	one	1	–	–

## Submultiples

Factor	Name	Decimal number	Prefix	Symbol
$10^0$	one	1	–	–
$10^{-1}$	one tenth	0,1	deci	d
$10^{-2}$	one hundredth	0,01	centi	c
$10^{-3}$	one thousandth	0,001	milli	m
$10^{-6}$	one milionth	0,000 001	micro	$\mu$
$10^{-9}$	one bilionth	0,000 000 001	nano	n
$10^{-12}$	one thousand bilionth	0,000 000 000 001	piko	p
$10^{-15}$	–	0,000 000 000 000 001	femto	f
$10^{-18}$	one trilionth	0,000 000 000 000 000 001	atto	a

## APHA COLOUR

APHA	Pt-Co ml	Water ml
10	1.0	49.0
20	2.0	48.0
30	3.0	47.0
40	4.0	46.0
60	6.0	44.0
80	8.0	42.0
100	10.0	40.0
150	15.0	35.0
200	20.0	30.0
300	30.0	20.0
400	40.0	10.0
500	50.0	-

The colour of the liquid (pure substance or solutions) might be conventionally expressed in APHA units (American Public Health Association).

The determination is carried out comparing the colour of the liquid with that of reference solution prepared under specific conditions. For the comparison, two identical 50 ml Nessler cylinders of transparent glass, containing equal volumes of the liquid and reference solution were used. This was prepared by diluting a certain amount of Platinum-Cobalt, so as to obtain the given APHA value according to the ratios given in the table below.

### Platinum-Cobalt (500 APHA)

Dissolve 1,246 g of Potassium chloroplatinate RPE and 1,000 g of Cobaltous chloride hexahydrate RPE in 200 ml of distilled water. Add 100 ml of hydrochloric acid 37% and dilute to 1000 ml with distilled water. This solution has a conventional colorimetric value of 500 APHA units.

## VISCOSITY - UNIT OF MEASURE

### International System (SI)

Shear stress $\tau$ .....	Pascal (Pa)=Newton/m <sup>2</sup> (N/m <sup>2</sup> )
Velocity gradient g.....	m/s
Dynamic viscosity h .....	Pascal x second (Pa·s)
.....	Millipascal x second (mPa·s)
Kinematic viscosity n.....	m <sup>2</sup> /s = 104 Stokes
.....	mm <sup>2</sup> /s

### CGS System

Shear stress $\tau$ .....	dine/cm <sup>2</sup>
Velocity gradient g.....	cm/s
Dynamic viscosity h .....	Poise (P) = dine·s/cm <sup>2</sup> = 1 Pa
.....	Centipoise (cP)
Kinematic viscosity n.....	Stokes (St) = 0,1 Pa·s
.....	Centistokes (cSt) = 1 mPa·s

Tab. 1 - Distilled water – specific viscosity at different temperatures <sup>(1)</sup>

Temperature	cP (centipoise)	Viscosity
0°	0,0179	1,000
5°	0,0151	0,843
10°	0,0130	0,730
15°	0,0114	0,637
17,5°	0,0107	0,599
20°	0,0100	0,561
30°	0,0080	0,446
50°	0,0054	0,307
70°	0,0040	0,226
100°	0,0028	0,158

(1) From: Küster F.W. - Thiel A., Tabelle Logarithmiche, ed. Hoepli, 1965

Tab. 2 - Table of viscosity in increasing order (cP at 20° C)

Solvent	Viscosity (cP)	Solvent	Viscosity (cP)	Solvent	Viscosity (cP)
Pentane	0.23	Methanol	0.55	Water	1.00
Diethyl ether	0.23	Tetrahydrofuran	0.55	Hethanol absolute	1.20
Methyl-tert-butyl ether	0.27	Chloroform	0.57	Acetic acid glacial	1.29
Petroleum ether	0.30	Toluene	0.59	1,4 Dioxane	1.54
Hexane	0.31	Benzene	0.65	2-Methoxyethanol	1.72
Acetone	0.32	1,1,2-Tricloro 1,2,2-trifluoroethane	0.71	Dimethylsulfoxide	2.24
Acetonitrile	0.36	1,2 Dichloroethane	0.79	Propan-1-ol	2.26
Heptane	0.41	Dimethylformamide	0.85	Propan-2-ol	2.30
Dichlorometane	0.43	Tetrachloroethylene	0.93	Octan-1-ol	approx. 10.64
1-Chlorobutane	0.45	Pyridine	0.95		
Ethyl acetate	0.45	Carbon tetrachloride	0.97		
2,2,4 Trimethylpentane	0.51	Cyclohexane	1.00		



# DENSITY

## Ammonium hydroxide

d 15°C 4°C	°Bé	% NH <sub>3</sub>
1.000	10	-
0.992	11	1.61
0.986	12	3.30
0.979	13	4.80
0.972	14	6.55
0.966	15	8.33
0.959	16	9.91
0.953	17	11.60
0.947	18	13.31
0.941	19	15.04
0.935	20	17.12
0.929	21	18.64
0.923	22	20.08
0.917	23	22.39
0.912	24	24.34
0.906	25	26.31
0.900	26	27.99
0.895	27	29.69
0.889	28	31.75

## Hydrochloric acid

15°C d 4°C	°Bé	% m HCl
1.0069	1	1.56
1.014	2	2.99
1.021	3	4.55
1.028	4	5.99
1.036	5	7.56
1.043	6	9.14
1.050	7	10.59
1.058	8	12.17
1.066	9	13.61
1.074	10	15.16
1.082	11	16.70
1.090	12	18.30
1.098	13	20.00
1.106	14	21.60
1.115	15	23.05
1.124	16	24.79
1.133	17	26.55
1.142	18	28.15
1.151	19	29.95
1.160	20	32.10
1.169	21	33.65
1.179	22	35.40
1.189	23	37.25
1.199	24	39.10

## Nitric acid

d 15°C 4°C	°Bé	% m HNO <sub>3</sub>
1.0069	1	1.39
1.014	2	2.69
1.021	3	4.08
1.028	4	5.37
1.036	5	6.76
1.043	6	8.13
1.050	7	9.35
1.058	8	10.68
1.066	9	11.88
1.074	10	13.15
1.082	11	14.47
1.090	12	15.70
1.098	13	17.11
1.106	14	18.46
1.115	15	19.61
1.124	16	21.00
1.133	17	22.40
1.142	18	23.70
1.151	19	25.15

1.160	20	26.65
1.169	21	28.03
1.179	22	29.38
1.189	23	30.88
1.199	24	32.36
1.209	25	33.80
1.219	26	35.28
1.229	27	36.96
1.240	28	38.44
1.250	29	40.12
1.261	30	41.81
1.273	31	43.49
1.284	32	45.18
1.295	33	46.98
1.307	34	48.72
1.319	35	50.71
1.331	36	52.80
1.344	37	54.93
1.356	38	57.13
1.369	39	59.39
1.382	40	61.92
1.396	41	64.71
1.409	42	67.50
1.423	43	70.80
1.437	44	74.32
1.452	45	78.18
1.467	46	82.48
1.482	47	87.23
1.498	48	93.45
1.513	49	99.07

## Phosphoric acid

d 15°C 4°C	°Bé	% m H <sub>3</sub> PO <sub>4</sub>
1.0069	1	1.38
1.014	2	2.76
1.021	3	4.13
1.028	4	5.51
1.036	5	6.90
1.043	6	8.26
1.050	7	9.64
1.058	8	11.02
1.066	9	12.40
1.074	10	13.77
1.082	11	15.15
1.090	12	16.53
1.098	13	17.91
1.106	14	19.28
1.115	15	20.66
1.124	16	22.04
1.133	17	23.42
1.142	18	24.80
1.151	19	26.17
1.160	20	27.55
1.169	21	28.93
1.179	22	30.31
1.189	23	31.68
1.199	24	33.06
1.209	25	34.44
1.219	26	35.82
1.229	27	37.19
1.240	28	38.57
1.250	29	39.95
1.261	30	41.33
1.273	31	42.70
1.284	32	44.08
1.295	33	45.46
1.307	34	46.84
1.319	35	48.21
1.331	36	49.59
1.344	37	50.97

1.356	38	52.04
1.369	39	53.72
1.382	40	55.10
1.396	41	56.48
1.409	42	57.86
1.423	43	59.23
1.437	44	60.61
1.452	45	61.99
1.467	46	63.37
1.482	47	64.75
1.498	48	66.12
1.513	49	67.50
1.529	50	68.88
1.545	51	70.26
1.562	52	71.63
1.579	53	73.01
1.597	54	74.39
1.615	55	75.77
1.633	56	77.14
1.652	57	78.52
1.671	58	79.90
1.690	59	81.28
1.710	60	82.65
1.731	61	83.03
1.752	62	85.41
1.773	63	86.80
1.795	64	88.16
1.818	65	89.55
1.841	66	90.92

## Potassium hydroxide

d 15°C 4°C	°Bé	% m KOH
1.0069	1	0.9
1.014	2	1.7
1.021	3	2.6
1.028	4	3.5
1.036	5	4.5
1.043	6	5.5
1.050	7	6.4
1.058	8	7.4
1.066	9	8.3
1.074	10	9.2
1.082	11	10.1
1.090	12	11.0
1.098	13	12.0
1.106	14	12.9
1.115	15	13.8
1.124	16	14.8
1.133	17	15.7
1.142	18	16.6
1.151	19	17.6
1.160	20	18.6
1.169	21	19.5
1.179	22	20.5
1.189	23	21.4
1.199	24	22.4
1.209	25	23.3
1.219	26	24.2
1.229	27	25.1
1.240	28	26.1
1.250	29	27.0
1.261	30	28.0
1.273	31	28.9
1.284	32	29.8
1.295	33	30.7
1.307	34	31.7
1.319	35	32.7
1.331	36	33.7
1.344	37	34.9
1.356	38	35.9

1.369	39	36.9
1.382	40	37.9
1.396	41	38.9
1.409	42	39.9
1.423	43	40.9
1.437	44	42.1
1.452	45	43.4
1.467	46	44.6
1.482	47	45.8
1.498	48	47.1
1.513	49	48.3
1.529	50	49.4
1.545	51	50.6

#### Sodium hydroxide

d 15°C 4°C	°Bé	% m NaOH
1.0069	1	0.59
1.014	2	1.20
1.021	3	1.85
1.028	4	2.50
1.036	5	3.15
1.043	6	3.79
1.050	7	4.50
1.058	8	5.20
1.066	9	5.86
1.074	10	6.58
1.082	11	7.30
1.090	12	8.07
1.098	13	8.78
1.106	14	9.50
1.115	15	10.30
1.124	16	11.06
1.133	17	11.90
1.142	18	12.69
1.151	19	13.50
1.160	20	14.35
1.169	21	15.15
1.179	22	16.00
1.189	23	16.90
1.199	24	17.81
1.209	25	18.71
1.219	26	19.65
1.229	27	20.60
1.240	28	21.55
1.250	29	22.50
1.261	30	23.50
1.273	31	24.48
1.284	32	25.50

1.295	33	26.58
1.307	34	27.65
1.319	35	28.83
1.331	36	30.00
1.344	37	31.20
1.356	38	32.50
1.369	39	33.73
1.382	40	35.00
1.396	41	36.36
1.409	42	37.65
1.423	43	39.06
1.437	44	40.47
1.452	45	42.02
1.467	46	43.58
1.482	47	45.16
1.498	48	46.73
1.513	49	48.41
1.529	50	50.10

#### Sulphuric acid

d 15°C 4°C	°Bé	% m H <sub>2</sub> SO <sub>4</sub>
1.0069	1	1.20
1.014	2	2.20
1.021	3	3.35
1.028	4	4.40
1.036	5	5.54
1.043	6	6.67
1.050	7	7.67
1.058	8	8.77
1.066	9	9.78
1.074	10	10.90
1.082	11	12.06
1.090	12	13.13
1.098	13	14.35
1.106	14	15.48
1.115	15	16.49
1.124	16	17.66
1.133	17	18.85
1.142	18	19.93
1.151	19	21.17
1.160	20	22.45
1.169	21	23.60
1.179	22	24.76
1.189	23	26.04
1.199	24	27.32
1.209	25	28.58
1.219	26	29.84
1.229	27	31.23

1.240	28	32.40
1.250	29	33.66
1.261	30	34.90
1.273	31	36.17
1.284	32	37.45
1.295	33	38.84
1.307	34	40.12
1.319	35	41.50
1.331	36	42.98
1.344	37	44.28
1.356	38	45.62
1.369	39	46.94
1.382	40	48.35
1.396	41	49.85
1.409	42	51.15
1.423	43	52.51
1.437	44	53.91
1.452	45	55.34
1.467	46	56.74
1.482	47	58.13
1.498	48	59.54
1.513	49	61.12
1.529	50	62.53
1.545	51	64.05
1.562	52	65.50
1.579	53	66.95
1.597	54	68.41
1.615	55	70.00
1.633	56	71.70
1.652	57	73.18
1.671	58	74.80
1.690	59	76.50
1.710	60	78.04
1.731	61	80.02
1.752	62	81.83
1.773	63	84.00
1.795	64	86.30
1.818	65	90.05
1.841	66	95.69

## POLARITY













































































































Table of polarity in increasing order (p)

Solvent	Polarity (p)	Solvent	Polarity (p)	Solvent	Polarity (p)
Heptane	0.1	Diethyl ether	2.8	1,4 Dioxane	4.8
Hexane	0.1	Dichloromethane	3.1	Acetone	5.1
Petroleum ether	0.1	Octan-1-ol	3.4	Methanol	5.1
2,2,4 Trimethylpentane	0.1	1,2 Dichloroethane	3.5	Pyridine	5.3
Cyclohexane	0.2	Propan-1-ol	3.9	2-Methoxyethanol	5.5
1-Chlorobutane	1.0	Propan-2-ol	4.0	Acetonitrile	5.8
Carbon tetrachloride	1.6	Tetrahydrofuran	4.0	Acetic acid glacial	6.0
Toluene	2.4	Chloroform	4.1	Dimethylformamide	6.4
Metyl-tert butyle ether	2.5	Ethanol absolute	4.3	Dimethylsulfoxide	7.2
Benzene	2.7	Ethyl acetate	4.4	Water	10.2



# INDICATORS

Table of pH range and colour shades

Indicator	pH range	Acid	Basic
Malachite green	0.0-2.0	 yellow	 green-blue
Brilliant green	0.0-2.6	 yellow	 green
Eosin Y	0.0-3.0	 yellow	 green
Erythrosin B	0.0-3.6	 orange	 red
Methyl green	0.1-2.3	 yellow	 blue
Methyl violet	0.1-2.7	 yellow	 violet
Picric acid	0.2-1.0	 colourless	 yellow
Cresol red	0.2-1.8	 red	 yellow
Crystal violet	0.8-2.6	 yellow	 blue-violet
Thymol blue	1.2-2.8	 red	 yellow
Tropaeolin OO	1.3-3.2	 red	 yellow
Eosin B	1.4-2.4	 colourless	 rose
Quinaldine red	1.4-3.2	 colourless	 rose
2,4-Dinitrophenol	2.4-4.0	 colourless	 yellow
Methyl yellow	2.9-4.0	 red	 yellow
Bromophenol blue	3.0-4.6	 yellow	 blue-violet
Congo red	3.0-5.2	 blue	 yellow-orange
Methyl orange	3.1-4.4	 red	 orange
Alizarine sodium sulphonate	3.7-5.2	 yellow	 violet
a-Naphtil red	3.7-5.0	 red	 yellow
Bromocresol green	4.0-5.6	 yellow	 blue
2,5-Dinitrophenol	4.0-5.8	 colourless	 yellow
Alizarine red	4.3-6.3	 yellow	 violet
Methyl red	4.4-6.2	 red	 yellow
Chlorophenol red	4.8-6.4	 yellow	 red
Bromocresol purple	5.2-6.8	 yellow	 purple
p-Nitrophenol	5.4-7.5	 colourless	 yellow
Bromoxylene blue	5.7-7.5	 yellow	 blue
Alizarine	5.8-7.2	 yellow	 red
Bromothymol blue	6.0-7.6	 yellow	 blue
Bromophenol blue	6.2-7.6	 yellow	 blue
Phenol red	6.4-8.2	 yellow	 red
3-Nitrophenol	6.6-8.6	 colourless	 yellow-orange
Neutral red	6.8-8.0	 red	 yellow
Rosolic acid	6.8-8.0	 yellow	 red
Cresol red	7.2-8.8	 yellow	 red
a-Naphtolphtalein	7.3-8.7	 rose	 green
Cresol purple	7.4-9.0	 yellow	 purple
Tropaeolin OOO	7.6-8.9	 yellow	 rose-red
Thymol blue	8.0-9.6	 yellow	 blue
Phenolphtalein	8.0-10.0	 colourless	 red
a-Naphtolbenzein	9.0-11.0	 yellow	 blue
Thymolphtalein	9.4-10.6	 colourless	 blue
Alkali blue 6B	9.4-14.0	 violet	 rose
Alizarin	10.0-12.0	 yellow	 purple
Nilo blue	10.1-11.1	 blue	 red
Diazoviolet	10.1-12.0	 yellow	 violet
Tropaeolin O	11.0-13.0	 yellow	 orange-brown
Nitramine	11.0-13.0	 colourless	 orange-brown
Poirrier blue	11.0-13.0	 blue	 violet-rose
Clayton's yellow O	12.0-13.0	 yellow	 red
Trinitrobenzoic acid	12.0-13.4	 colourless	 orange-red
Indigo carmine dried	11.5-13.0	 blue	 yellow
Epsilon blue	11.6-13.0	 orange	 violet

# COLOUR INDEX

Colour Index	Colour Index Name	Commercial Name	Synonyms Index
10316	Acid Yellow 1	Naphthol yellow S	Acid yellow S
11020	Solvent Yellow 1,2	Methyl yellow	
11270	Basic Orange 2	Chrysoidin Y	Brown salt R
12055	Solvent Yellow 14	Sudan yellow	Sudan I Sudan yellow R
12140	Solvent Orange 7	Sudan II	Sudan red Sudan Orange RR
13020	Acid Red 2	Methyl red	
13025	Acid Orange 52	Methyl orange	Orange III Helianthin
13065	Acid Yellow 36	Methanyl yellow	Tropaeolin G
13080	Acid Orange 5	Tropaeolin 00	Orange IV
14030	Mordant orange 1	Alizarin yellow R	Alizarin yellow G Orange R
14270	Acid Orange 6	Tropaeolin O	Tropeolina Y
14645	Mordant black 11	Heriochrome black T	Superchrome black T
15510	Acid Orange 7	Orange II	Tropaeolin 000
15705	Mordant black 17	Calcon	Palatine chrome black Eriochrome blue black B
16150	Acid red 26	Ponceau de Xilidine	Ponceau 2 R Brilliant Ponceau
16185	Acid Red 27	Amaranth	Naphthol red S, C o O Solid red O
16230	Acid Orange 10	Orange G	Orange GG
16570	Acid red 29	Chromotrope 2R	Acid phloxin GR
19140	Acid yellow 23	Tartrazine	Acid yellow T
19540	Direct yellow 9	Titan yellow	Thiazole yellow G Clayton yellow
20470	Acid Black 1	Naphthalene black 12 B	Naftol blue black Amido black 10B Pontacyl black blue SX
21010	Basic brown 4	Bismark Brown R	Vesuvine BL
22120	Direct red 28	Congo red	Cotton redB
23850	Direct blue 14	Trypan blue	Congo blue 3B
23860	Direct blue 53	Evans blue	Diazol pure blue Geigy blue 536 med
24890	Direct yellow 4	Brilliant yellow	Yellow paper
26050	Solvent red 19	Sudan red 7B	Fast red 7B
26100	Solvent red 23	Sudan III	
26105	Solvent red 24	Sudan IV	Scarlett R (Michaelis) Fat ponceau
26125	Solvent red 27	Oil red O	Sudan red 5B
26150	Solvent black 3	Sudan black B	Ceres black BN
26905	Acid red 66	Scarlett Biebrich	Imperial scarlett Brilliant ponceau S Ponceau red BS
27195	Acid red 112	Ponceau red S	Java scarlet
37025	Azoic Diazo No. 6	o-Nitroaniline	Orange GRS
37030		m-Nitroaniline	
37035	Azoic Diazo No. 37	p-Nitroaniline	Nitrazol CF Nitrosamine red
37235	Azoic diazo N. 48	Fast blue B salt	Dianisidine blue Diazo blue B salt Blue salt BNS
41000	Basic yellow 2	Auramine O	Pyoctanine yellow
42000	Basic green 4	Malachite green	Vittoria green B China green
42040	Basic green 1	Brilliant green	Aniline green Diamone green Emerald green
42045	Acid blu 1	Eriogalucine	Disulphine blue V Sulphon blue
42053	Food green 3	Fast green FCF	
42090	Acid Blue 9	Erioglaucine	Alphazurine FG
42095	Acid green 5	Light green SF	Acid green F Acid green G Lissamine green SF
42135	Acid blue 147	Xilencyanol FF	Cyanol FF
42510	Basic violet 14	Rosanilin	Fuchsin brilliant
		Basic fuchsin	Rosaniline hydrochloride Magenta I
42535	Basic violet 1	Gentian violet	Methyl violet 2R

Colour Index	Colour Index Name	Commercial Name	Synonyms Index
42535	Basic violet 1	Violetto Metile 2 B	
42555	Basic violet 3	Crystal violet	Methyl violet 6B
42556	Basic green	Iodine green	
42563	Basic blue 8	Vittoria blue 4R	Fast Blue 4R
42585	Basic blue 20	Methyl green	
42600	Basic violet 4	Ethyl violet	Ethyl purple 6B
42655	Acid blue 90	Brilliant Indocyanin G	Coomassie brilliant blue G250 Eriodin Cyanin brilliant G
42660	Acid blue 83	Brilliant Indocyanin 6 B	Coomassie brilliant blue R Brilliant acid cyanine 6B
42685	Acid violet 19	Acid fuchsin	Fuchsin S Rubin S Acid Magenta
42755	Acid blue 22	Aniline blue (water soluble)	China blue Cotton blue Blu di Hofman Opal blue Water blue I
42765	Acid blue 119	Alkali blue 6B	Reflex blue AG
42775	Solvent blue 3	Aniline blue (alcohol soluble)	Light blue Lyon's blue Paris blue Gentian blue
42780	Acid blue 93	Methyl blue	Helvetia blue Soluble blue 8B Poirier's blue C4B
43800		Rosolic acid sodiu salt	Aurine (water soluble) Corollin (water soluble)
43820	Mordant blue 3	Chromoxane canine R	Cyanin R Solochrome Eriochrome canine R
43825	Mordant blue 29	Cromoxane pure blue BLD	Cromeazurol S
45005	Basic dye	Pyronine G	Pyronine Y
45170	Basic violet 10	Rhodamine B	Rhodamine O Brilliant rhodamine B
45350	Acid yellow 73	Fluorescein sodium salt	Uranin
45380	Acid red 87	Eosin Y (yellowish)	Tetrabromofluoresceina sodica
45386	Solvent red 45	Ethyl Eosin (alcohol soluble)	Eosin S
45400	Acid red 91	Eosina B (blue shade)	Eosin scarlet
45410	Acid red 92 (soluble in acqua)	Phloxin B	Cyanosin Magdala red Tetrabromotetrachlorofluoroscein Sodium salt
45430	Acid red 51	Erythrosin B	Erythrosin J
45440	Acid red 94	Rose Bengal	
46005	Basic orange 14	Acridine orange	Euchrysin
49700		Indophenol	Indophenol blue
50040	Basic red 5	Neutral red	Toluylene red Neophospine
50240	Basic red 2	Safranine O	Cotton red
50420	Acid black 2	Nigrosine (water soluble)	Aniline blue black
51010	Basic dye	Brilliant cresyl blue	Cresyl blue BBS
51050	Mordant Blue 14	Celestine blue B	Coerin 2R
51180	Basic blue 12	Nilo blue A	Nilo blue BX
52000	Basic violet	Thionine acetate	Lauth's violet
52015	Basic blue 9	Methylene blue	
52040	Basic blue 17	Toluidine blue	
56085	Mordant dye	Murexide	
58000	Mordant red 11	Alizarin	
58005	Mordant red 3	Alizarin red S	
58500	Mordant violet-26	Quinizarin	Alizarin orange A Alizarina cianina 3R
60760	Pigment dyes	Nuclear fast red	Calcium red Kerneckrot Helio fast rubin BBL
61515	Solvent blue 19	Blu Oracet B	
73000	Vat blue 1	Indigo	Indigo blue
73015	Acid blue 74	Indigo carmine	Sodium indigo disulphonate
74240	Ingrain blue 1	Alcian blue 8GX	Alcian blue
75290	Natural black 1	Hematoxylin	Hematein
75300	Natural yellow 3	Curcumin	Curcuma
75470	Natural red 4	Acido carminico	Carminio Cocciniglia
75660	Natural Yellow 11	Morin	Fustic

# SOLUTIONS CHEMISTRY

## Freezing mixtures

Mixture	Solution concentration	Temperature °C
Ammonium chloride	solution 23 %	- 3° C
Potassium chloride	solution 20 %	- 12° C
Ammonium nitrate	solution 50 %	- 15° C
Sodium chloride	solution 25 %	- 21° C
Sodium nitrate	solution 33 %	- 24° C
Calcium chloride 6 H <sub>2</sub> O	solution 62 % - with ice	- 39° C
Calcium chloride 6 H <sub>2</sub> O	solution 59 % - with ice	- 55° C
Methanol or Acetone with dry ice		- 77° C

## Molarity and normality chart for common acid and base solutions

Acid	Molarity	Normality	Volume required for a liter	
			1 M solution	1 N solution
Acetic acid 99.5%	17,4 M	17,4 N	57,5 ml	57,5 ml
Ammonia sol. 25%	13,2 M	13,2 N	75,6 ml	75,6 ml
Ammonia sol. 35%	18,5 M	18,5 N	54,0 ml	54,0 ml
Hydrochloric acid 37%	11,6 M	11,6 N	85,8 ml	85,8 ml
Hydrochloric acid 32%	10,2 M	10,2 N	98,2 ml	98,2 ml
Hydrofluoric acid 40%	22,6 M	22,6 N	44,2 ml	44,2 ml
Nitric acid 70%	15,7 M	15,7 N	63,7 ml	63,7 ml
Phosphoric acid 85%	14,7 M	44,2 N	67,8 ml	22,6 ml
Sulphuric acid 96%	18,0 M	36,0 N	55,5 ml	27,8 ml

## Miscibility table

Xylene	Trichloroethylene	Toluene	Tetrahydrofurane	Pentane	Methyl-tert-butyl ether	Methyl-ethyl ketone	Isoctane	Ethyl Acetate	Hexane	Heptane	Dioxane	Dimethylsulfoxide	Dimethylformamide	Diethylether	Dichloromethane	1,2-Dichloroethane	Chloroform	Cyclohexane	Butyl Acetate	Benzene	n-propanol	n-butanol	Methanol	Isopropanol	Ethanol	Water	Acetonitrile	Acetone	Solvent	b.p. (°C)	UV (nm) cut off 1AU	d (g/ml) at 20°C	Refractive index at 20°C	Viscosity (cP) at 20°C
																													Acetone	56	330	0,786	1,359	0,32
																													Acetonitrile	82	190	0,786	1,344	0,37
																													Water	100	190	0,998	1,333	1,00
																													Ethanol	78	210	0,789	1,360	1,20
																													Isopropanol	82	205	0,785	1,377	2,30
																													Methanol	65	205	0,791	1,329	0,60
																													n-butanol	125	215	0,81	1,394	0,73
																													n-propanol	97	210	0,803	1,384	2,27
																													Benzene	80	280	0,879	1,501	0,65
																													Butyl Acetate	125	254	0,882	1,399	2,98
																													Cyclohexane	81	200	0,779	1,426	1,00
																													Chloroform	61	245	1,498	1,946	0,57
																													1,2-Dichloroethane	84	225	1,257	1,444	0,79
																													Dichloromethane	41	233	1,326	1,424	0,44
																													Diethylether	35	215	0,713	1,353	0,23
																													Dimethylformamide	155	268	0,944	1,431	0,85
																													Dimethylsulfoxide	189	268	1,092	1,478	2,24
																													Dioxane	101	215	1,033	1,422	1,54
																													Heptane	98	200	0,684	1,387	0,41
																													Hexane	69	195	0,655	1,375	0,31
																													Ethyl Acetate	77	256	0,894	1,372	0,45
																													Isoctane	99	215	0,692	1,392	0,51
																													Methyl-ethyl ketone	80	329	0,806	1,379	0,45
																													Methyl-tert-butyl ether	55	210	0,741	1,369	0,27
																													Pentane	36	190	0,626	1,358	0,23
																													Tetrahydrofurane	65	212	0,886	1,407	0,55
																													Toluene	111	284	0,867	1,496	0,59
																													Trichloroethylene	87	273	1,462	1,477	0,57
																													Xylene	139	288	0,861	1,500	0,61

■ full square means immiscible

# CONVERSION TABLES

## US and British measuring units and conversion factors

### Length

1 mil	=	25,4 µm
1 inch	=	2,54000 centimetres
1 foot	=	30,48006 centimetres
1 yard	=	0,91440 metres
1 mile	=	1609,34 metres
1 mile (nautical)	=	1853,25 metres
1 millimetre	=	0,03937 inches
1 centimetre	=	0,3937 inches
1 metre	=	39,37 inches
1 metre	=	3,2028 fouts
1 metre	=	1,09361 yards
1 kilometer	=	0,62136 miles
1 kilometer	=	0,53959 miles (nautical)

### Volume

1 cubic inch	=	16,38716 cubic centimetres
1 cubic foot	=	28,31625 cubic decimetres
1 cubic yard	=	0,76456 cubic metres
1 cubic centimetre	=	0,06102 cubic inches
1 cubic decimetre	=	0,03531 cubic fouts
1 cubic metre	=	1,30794 cubic yards

### Capacity

1 quart (USA liquid)	=	0,94633 liters
1 gallon (USA)	=	3,78533 liters
1 barrel (USA)	=	0,11562 cubic metres
1 quart (UK)	=	1,13650 litres
1 gallon (UK)	=	4,5596 litres
1 barrel (UK)	=	0,16366 cubic metres
1 litre	=	1,056681 quarts (USA)
1 litre	=	0,264177 gallons (USA)
1 litre	=	0,87990 quarts (UK)
1 litre	=	0,219976 gallons (UK)

### Weight (Mass)

1 grain	=	64,80 milligrams
1 dramma	=	1,772 grams
1 ounce (US)	=	28,3495 grams
1 pound	=	453,5924 grams
1 ton (short) (US)	=	907,18486 kilograms
1 ton (long) (UK)	=	1016,0470 kilograms
1 grams	=	15,4324 grains
1 gram	=	0,03527 ounces
1 kilogram	=	2,20462 pounds
1 metric ton.	=	1,10231 short tons (US)
1 metric ton	=	0,98420 long tons (UK)

## Concentrations

%	ppm		ppb		ppt		Potency	Proportion
	g/kg	mg/kg	µg/kg	ng/kg	ng/kg	pg/kg		
	mg/g	µg/g	ng/g	pg/g	fg/g			
1	10	10.000					$1 \times 10^{-2}$	1: 100
0,5	5	5.000					$5 \times 10^{-3}$	1: 500
0,1	1	1.000					$1 \times 10^{-3}$	1: 1.000
0,05	0,5	500					$5 \times 10^{-4}$	1: 5.000
0,01	0,1	100					$1 \times 10^{-4}$	1: 10.000
0,005	0,05	50					$5 \times 10^{-5}$	1: 50.000
0,001	0,01	10	10.000				$1 \times 10^{-5}$	1: 100.000
0,000.5	0,005	5	5.000				$5 \times 10^{-6}$	1: 500.000
0,000.1	0,001	1	1.000				$1 \times 10^{-6}$	1: 1.000.000
0,000.05	0,0005	0,5	500				$5 \times 10^{-7}$	1: 5.000.000
0,000.01	0,000.1	0,1	100				$1 \times 10^{-7}$	1: 10.000.000
0,000.001	0,000.01	0,01	10	10.000			$1 \times 10^{-8}$	1: 100.000.000
0,000.0001	0,000.001	0,001	1	1.000			$1 \times 10^{-9}$	1: 1.000.000.000
			0,1	100			$1 \times 10^{-10}$	1: 10.000.000.000
			0,01	10			$1 \times 10^{-11}$	1: 100.000.000.000
			0,001	1			$1 \times 10^{-12}$	1: 1.000.000.000.000



## Transmittance vs Absorbance unit

% T	A.U.	% T	A.U.	% T	A.U.	% T	A.U.	% T	A.U.	% T	A.U.
0.5	2.301	17.5	0.757	34.5	0.462	51.5	0.288	68.5	0.164	85.5	0.068
1.0	2.000	18.0	0.745	35.0	0.456	52.0	0.284	69.0	0.161	86.0	0.066
1.5	1.824	18.5	0.733	35.5	0.450	52.5	0.280	69.5	0.158	86.5	0.063
2.0	1.699	19.0	0.721	36.0	0.444	53.0	0.276	70.0	0.155	87.0	0.060
2.5	1.620	19.5	0.710	36.5	0.438	53.5	0.271	70.5	0.152	87.5	0.058
3.0	1.523	20.0	0.699	37.0	0.432	54.0	0.268	71.0	0.149	88.0	0.056
3.5	1.469	20.5	0.688	37.5	0.426	54.5	0.263	71.5	0.146	88.5	0.053
4.0	1.398	21.0	0.678	38.0	0.420	55.0	0.260	72.0	0.143	89.0	0.051
4.5	1.347	21.5	0.667	38.5	0.414	55.5	0.256	72.5	0.140	89.5	0.048
5.0	1.301	22.0	0.658	39.0	0.409	56.0	0.252	73.0	0.137	90.0	0.046
5.5	1.260	22.5	0.647	39.5	0.403	56.5	0.248	73.5	0.134	90.5	0.043
6.0	1.222	23.0	0.638	40.0	0.398	57.0	0.244	74.0	0.131	91.0	0.041
6.5	1.187	23.5	0.628	40.5	0.392	57.5	0.240	74.5	0.128	91.5	0.039
7.0	1.155	24.0	0.620	41.0	0.387	58.0	0.237	75.0	0.125	92.0	0.036
7.5	1.125	24.5	0.611	41.5	0.382	58.5	0.233	75.5	0.122	92.5	0.034
8.0	1.097	25.0	0.602	42.0	0.377	59.0	0.229	76.0	0.119	93.0	0.032
8.5	1.071	25.5	0.593	42.5	0.372	59.5	0.225	76.5	0.116	93.5	0.030
9.0	1.046	26.0	0.585	43.0	0.367	60.0	0.222	77.0	0.114	94.0	0.027
9.5	1.022	26.5	0.577	43.5	0.361	60.5	0.218	77.5	0.111	94.5	0.025
10.0	1.000	27.0	0.569	44.0	0.357	61.0	0.215	78.0	0.108	95.0	0.022
10.5	0.979	27.5	0.561	44.5	0.351	61.5	0.211	78.5	0.105	95.5	0.020
11.0	0.959	28.0	0.553	45.0	0.347	62.0	0.208	79.0	0.102	96.0	0.018
11.5	0.943	28.5	0.545	45.5	0.342	62.5	0.204	79.5	0.099	96.5	0.015
12.0	0.921	29.0	0.538	46.0	0.337	63.0	0.201	80.0	0.097	97.0	0.013
12.5	0.903	29.5	0.530	46.5	0.332	63.5	0.197	80.5	0.094	97.5	0.011
13.0	0.886	30.0	0.523	47.0	0.327	64.0	0.194	81.0	0.092	98.0	0.009
13.5	0.870	30.5	0.516	47.5	0.323	64.5	0.190	81.5	0.089	98.5	0.006
14.0	0.854	31.0	0.509	48.0	0.319	65.0	0.187	82.0	0.086	99.0	0.004
14.5	0.838	31.5	0.502	48.5	0.314	65.5	0.184	82.5	0.083	99.5	0.002
15.0	0.824	32.0	0.495	49.0	0.310	66.0	0.180	83.0	0.081	100.0	0.000
15.5	0.810	32.5	0.488	49.5	0.305	66.5	0.177	83.5	0.078		
16.0	0.796	33.0	0.482	50.0	0.301	67.0	0.174	84.0	0.076		
16.5	0.782	33.5	0.475	50.5	0.297	67.5	0.171	84.5	0.073		
17.0	0.770	34.0	0.469	51.0	0.292	68.0	0.168	85.0	0.071		

## Baumé vs specific gravity

Conversion rules at a temperature of 60°F:

For liquids more dense than water:

$$\text{s.g.} = \frac{145}{145 - \text{degrees Baumé}}$$

For liquids less dense than water:

$$\text{s.g.} = \frac{140}{130 + \text{degrees Baumé}}$$

°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity
103,33	0,60	36,67	0,84	10,74	1,08	34,73	1,32	51,45	1,55	63,77	1,79
101,40	0,61	35,68	0,85	11,36	1,09	35,15	1,32	51,75	1,56	63,99	1,79
99,51	0,61	34,71	0,85	11,97	1,09	35,57	1,33	52,05	1,56	64,22	1,80
97,64	0,62	33,74	0,86	12,58	1,10	35,98	1,33	52,35	1,57	64,44	1,80
95,81	0,62	32,79	0,86	13,18	1,10	36,39	1,34	52,64	1,57	64,67	1,81
94,00	0,63	31,85	0,87	13,78	1,11	36,79	1,34	52,94	1,58	64,89	1,81
92,22	0,63	30,92	0,87	14,37	1,11	37,19	1,35	53,23	1,58	65,11	1,82
90,47	0,64	30,00	0,88	14,96	1,12	37,59	1,35	53,52	1,59	65,33	1,82
88,75	0,64	29,09	0,88	15,54	1,12	37,99	1,36	53,81	1,59	65,55	1,83
87,05	0,65	28,19	0,89	16,11	1,13	38,38	1,36	54,09	1,60	65,77	1,83
85,38	0,65	27,30	0,89	16,68	1,13	38,77	1,37	54,38	1,60	65,98	1,84
83,74	0,66	26,42	0,90	17,25	1,14	39,16	1,37	54,66	1,61	66,20	1,84
82,12	0,66	25,56	0,90	17,81	1,14	39,55	1,38	54,94	1,61	66,41	1,85
80,53	0,67	24,70	0,91	18,36	1,15	39,93	1,38	55,22	1,62	66,62	1,85
78,96	0,67	23,85	0,91	18,91	1,15	40,31	1,39	55,49	1,62	66,83	1,86
77,41	0,68	23,01	0,92	19,46	1,16	40,68	1,39	55,77	1,63	67,04	1,86
75,88	0,68	22,17	0,92	20,00	1,16	41,06	1,40	56,04	1,63	67,25	1,87
74,38	0,69	21,35	0,93	20,54	1,17	41,43	1,40	56,31	1,64	67,46	1,87
72,90	0,69	20,54	0,93	21,07	1,17	41,80	1,41	56,59	1,64	67,67	1,88
71,44	0,70	19,73	0,94	21,60	1,18	42,16	1,41	56,85	1,65	67,87	1,88
70,00	0,70	18,94	0,94	22,12	1,18	42,53	1,42	57,12	1,65	68,08	1,89
68,58	0,71	18,15	0,95	22,64	1,19	42,89	1,42	57,39	1,66	68,28	1,89
67,18	0,71	17,37	0,95	23,15	1,19	43,25	1,43	57,65	1,66	68,48	1,90
65,80	0,72	16,60	0,96	23,66	1,20	43,60	1,43	57,91	1,67	68,68	1,90
64,44	0,72	15,83	0,96	24,17	1,20	43,95	1,44	58,17	1,67	68,88	1,91
63,10	0,73	15,08	0,97	24,67	1,21	44,31	1,44	58,43	1,68	69,08	1,91
61,78	0,73	14,33	0,97	25,17	1,21	44,65	1,45	58,69	1,68	69,28	1,92
60,48	0,74	13,59	0,98	25,66	1,22	45,00	1,45	58,95	1,69	69,48	1,92
59,19	0,74	12,86	0,98	26,15	1,22	45,34	1,46	59,20	1,69	69,68	1,93
57,92	0,75	12,13	0,99	26,63	1,23	45,68	1,46	59,45	1,70	69,87	1,93
56,67	0,75	11,41	0,99	27,11	1,23	46,02	1,47	59,71	1,70	70,06	1,94
55,43	0,76	10,70	1,00	27,59	1,24	46,36	1,47	59,96	1,71	70,26	1,94
54,21	0,76	0,72	1,01	28,06	1,24	46,69	1,48	60,20	1,71	70,45	1,95
53,01	0,77	1,44	1,01	28,53	1,25	47,03	1,48	60,45	1,72	70,64	1,95
51,82	0,77	2,14	1,02	29,00	1,25	47,36	1,49	60,70	1,72	70,83	1,96
50,65	0,78	2,84	1,02	29,46	1,26	47,68	1,49	60,94	1,73	71,02	1,96
49,49	0,78	3,54	1,03	29,92	1,26	48,01	1,50	61,18	1,73	71,21	1,97
48,34	0,79	4,22	1,03	30,38	1,27	48,33	1,50	61,43	1,74	71,40	1,97
47,22	0,79	4,90	1,04	30,83	1,27	48,65	1,51	61,67	1,74	71,58	1,98
46,10	0,80	5,58	1,04	31,27	1,28	48,97	1,51	61,91	1,75	71,77	1,98
43,91	0,81	6,24	1,05	31,72	1,28	49,29	1,52	62,14	1,75	71,95	1,99
42,84	0,81	6,90	1,05	32,16	1,29	49,61	1,52	62,38	1,76	72,14	1,99
41,78	0,82	7,56	1,06	32,60	1,29	49,92	1,53	62,61	1,76	72,32	2,00
40,73	0,82	8,21	1,06	33,03	1,30	50,23	1,53	62,85	1,77	72,50	2,00
39,70	0,83	8,85	1,07	33,46	1,30	50,54	1,54	63,08	1,77		
38,67	0,83	9,49	1,07	33,89	1,31	50,84	1,54	63,31	1,78		
37,66	0,84	10,12	1,08	34,31	1,31	51,15	1,55	63,54	1,78		

## Normality and Molarity chart for common volumetric solutions

Volumetric solution	Normality	Molarity
Acetic acid	0.01 N	0.01 M
Acetic acid	0.1 N	0.1 M
Ammonium thiocyanate	0.01 N	0.01 M
Ammonium thiocyanate	0.1 N	0.1 M
Bromine	0.1 N	0.05 M
Cerium (IV) sulphate	0.1 N	0.1 M
EDTA sodium salt	0.2 N	0.1 M
EDTA sodium salt	0.1 N	0.05 M
EDTA sodium salt	0.02 N	0.01 M
Hydrochloric acid	0.01 N	0.01 M
Hydrochloric acid	0.1 N	0.1 M
Hydrochloric acid	0.5 N	0.5 M
Hydrochloric acid	1 N	1 M
Hydrochloric acid	2 N	2 M
Iodine	0.01 N	0.005 M
Iodine	0.1 N	0.05 M
Iodine	1 N	0.5 M
Litium methoxide	0.1 N	0.1 M
Mercuric perchlorate	0.01 N	0.01 N
Nitric acid	0.1 N	0.1 M
Nitric acid	1 N	1 M
Oxalic acid	0.01 N	0.005 M
Oxalic acid	0.1 N	0.05 M
Oxalic acid	1 N	0.5 M
Perchloric acid	0.01 N	0.01 M
Perchloric acid	0.1 N	0.1 M
Potassium bromate	0.1 N	0.0167 M
Potassium dichromate	0.1 N	0.0167 M
Potassium hydr. phtalate	0.1 N	0.1 M
Potassium hydroxide	0.1 N	0.1 M
Potassium hydroxide	0.25 N	0.25 M

Volumetric solution	Normality	Molarity
Potassium hydroxide	0.5 N	0.5 M
Potassium hydroxide	1 N	1 M
Potassium iodate	0.01 N	0.00167 M
Potassium iodate	0.1 N	0.0167 M
Potassium permanganate	0.01 N	0.002 M
Potassium permanganate	0.1 N	0.02 M
Potassium permanganate	1 N	0.2 M
Potassium thiocyanate	0.1 N	0.1 M
Silver nitrate	0.01 N	0.01 M
Silver nitrate	0.1 N	0.1 M
Silver nitrate	1 N	1 M
Sodium arsenite	0.1 N	0.05 M
Sodium carbonate	0.1 N	0.05 M
Sodium carbonate	1 N	0.5 M
Sodium chloride	0.1 N	0.1 M
Sodium hydroxide	0.01 N	0.01 M
Sodium hydroxide	0.1 N	0.1 M
Sodium hydroxide	0.25 N	0.25 M
Sodium hydroxide	1/2.82 N	1/2.82 M (0.357 mol/l)
Sodium hydroxide	0.5 N	0.5 M
Sodium hydroxide	1 N	1 M
Sodium hydroxide	2 N	2 M
Sodium thiosulphate	0.01 N	0.01 M
Sodium thiosulphate	0.1 N	0.1 M
Sodium thiosulphate	1 N	1 M
Sulphuric acid	0.01 N	0.005 M
Sulphuric acid	0.1 N	0.05 M
Sulphuric acid	0.5 N	0.25 M
Sulphuric acid	1 N	0.5 M
Sulphuric acid	2 N	1 M

## Mesh size conversion table

Mesh size	Micron size approximate	Millimeters approximate	Inches
4	4760	4,760	0,185
6	3360	3,360	0,131
8	2380	2,380	0,093
12	1680	1,680	0,065
16	1190	1,190	0,046
20	840	0,840	0,0328
30	590	0,590	0,0232
40	420	0,420	0,0164
50	297	0,297	0,0116
60	250	0,250	0,0097
70	210	0,210	0,0082
80	177	0,177	0,0069
100	149	0,149	0,0058
140	105	0,105	0,0041
200	74	0,074	0,0029
230	62	0,062	0,0024
270	53	0,053	0,0021
325	44	0,044	0,0017
400	37	0,037	0,0015
625	20	0,020	0,0008
1250	10	0,010	0,0004
2500	5	0,005	0,0002

# SAFETY IN THE LABORATORY

## Alterable chemical products

The expiration date of all of our reagents is printed on both the label and the certificate of analysis. It applies to products stored in their original and intact packaging and away from heat and light as specified in the safety data sheet.

Once that an alterable product has been opened, the final user should determine the expiry date of the product basis on a risk analysis that includes the following parameters:

- Systematic risk
- Chemical risk
- Utilisation risk

Our range of products includes some alterable chemical products that, due to their own chemical properties, may be subject to an alteration during the time.

We indicate here below with some abbreviations the most common types of alteration found on our alterable products.

- A: Alterable molecule
- C: Colour change
- D: Deliquescent
- F: Interaction with the content
- ID: Hydrolisable
- IG: Hygroscopic
- M: Formation of an insoluble precipitation
- O: Oxidation
- P: Polymerisation

Products	Alterability	Products	Alterability	Products	Alterability
Diethylene Glycol dimethylether	O	Iodine trichloride	F	Salicylaldehyde	O-C
Diethylene Glycol monobutylether	O	Karl Fisher reagent	IG	Silver diethylcarbamate	C
Diethylene Glycol monoethylether	O	Lutidine (2,4)	C	Soda lime	A
Diethylether not stabilized	O	Magnesium perchlorate	IG	Sodium acetate anhydrous	IG
Diethylsulfate	ID-C	Magnesium peroxide	A	Sodium citrate tribasic anhydrous	IG
Dihydroxyacetone	ID-D	Methyl isobutylacetone	C	Sodium cyanide solution	A
Dimethylaminonaphthalene-5-sulfonyl chloride	ID	Methyldichloroacetate	ID	Sodium hydrate and hypochloride solution	A-O
Dimethylsulfate	ID-C	mono-Ethanolamine	C	Sodium hydrosulfite	O
Diphenylamine	C	n,n-Diethylaniline	C	Sodium hypochloride solution	A-O
Diphenyldithiocarbazine	O-C	n,n-Dimethylphenylenediamine	C	Sodium metabisulfite	O
Ergometrine maleate	A	n-Ethyl piperidine	C	Sodium methylate	ID
Ergometrine tartrate	A	Nitric acid fuming 90%	F	Sodium sulfide nonahydrate	C-IG
Ethyl formate	ID	n-Methylaniline	C	Starch solution 1%	M
Ethyl-5-methylpyridine-2	C	Orthophosphoric acid 99%	O	Strontium iodide	C
Ethylaniline	C	Orthophosphoric acid 99%	IG	Styrene	P
Ethylchloroacetate	O	p-Dimethylaminobenzaldehyde	C	Succinic anhydride	ID
Ethylene Glycol dimethylether	O	Phenol	C	Sulfuric acid 96%	C
Ethylene Glycol monoethylether	O	Phosphomolybdic acid	C	Sulphurous acid saturated solution	O
Ethylene Glycol monoethylether acetate	O	Phosphorous pentachloride	F	sym-Diphenylcarbazide	C
Ethylene Glycol monomethylether	O	Phosphorus pentoxide	IG	Sym-Tetrabromoethane	A
Formaldehyde 40% w/v	O-P	Picoline	C	Sym-Tetrachloroethane	A
Formic acid 99%	O	Piperidine	C	Tetrahydrofurfuryl alcohol	C-D
Furan	C-O	Piruvic acid	P	Tin chloride anhydrous	A
Furfural	C	Potassium ethyl xantogenate	ID	Titanium trichloride 15%	M
Furfuryl alcohol	C	Potassium metabisulfite	O	Trichloroacetic acid solution 20%	A
Gaiacol	C	p-Oxalate	C	Triphenylchloromethane	F
Hanus's reagent	A	p-phenetidin	C	Vitamin A acetate	A
Heptanal	O	Propionaldehyde	O	Vitamin A palmitate	A
Hydrazine hydroxyde	A	Propionitrile	C	Water chlorine saturated solution	A
Hydrazine solution	A	Protonaldehyde	C-O	Zinc oxide	IG
Hydrogen peroxide	A	p-Toluidine	C		
Hydrogen sulfide saturated solution	O-M	Pyridine hydrochloride	IG		
Hydroquinone monomethylether	O	Pyrrole	C		
		Pyrrolidine	C		

## Incompatible chemical products

ACETIC ACID	Nitric acid Perchloric acid Alcohols Chromium oxide Ethylen glycol Permanganates Peroxides	CHROMIUM OXIDE	Acetic acid Alcohols Petroleum ether Canphor Glycerol Flammable liquids Naphthalin
HYDROFLUORIC ACID	Ammonia	PHOSPHORUS	Oxygenated combinations Sulphur
NITRIC ACID CONCENTRATED	Acetic acid Hydrocyanic acid Aniline Chromium oxide Hydrogen sulphide Flammable liquids and gasses	HYDROCARBONS	Bromine Chlorine Chromium oxide Fluorine Sodium peroxide
OXALIC ACID	Silver Mercury	IODINE	Acetylene Ammonia
PERCHLORIC ACID	Alcohols Acetic anhydride Bismuth and its alloys Paper Wood	FLAMMABLE LIQUIDS	Nitric acid Halogens Ammonium nitrate Chromium oxide Hydrogen peroxide Sodium peroxide
SULPHURIC ACID	Potassium chlorate Potassium perchlorate Potassium permanganate	MERCURY	Acetylene Ammonia
AMMONIA	Hydrofluoric acid Bromine Chlorine Iodine Calcium hypochlorite Mercury	ALKALY METALS	Water Halogens Carbon dioxide Carbon tetrachloride other Halogenated alkanes
AMMONIUM NITRATE	Acids Chlorates Flammable liquids Nitrates Metallic powders Flammable organic substances Sulphur	HYDROGEN PEROXIDE	Acetone Alcohols Aniline Chromium Copper Iridium Metals and metallic salts Nitromethane Organic substances Flammable substances
ANILINE	Nitric acid Hydrogen peroxide	POTASSIUM PERMANGANATE	Sulphuric acid Benzaldehyde Ethylen glycol Glycerol
SILVER	Acetylene Oxalic acid Tartaric acid Ammonium salts	COPPER	Acetylene Hydrogen peroxide
BROMINE AND CHLORINE	Acetylene Ammonia Benzene Petroleum ether Butadiene Butane Hydrogen Methane Propane Metallic powders	SODIUM PEROXIDE	Acetic acid Ethyl alcohol Methyl alcohol Acetic anhydride Benzaldehyde Ethyl acetate Ethylen glycol Furfural Carbon disulphide
CYANIDES	Acids		
CHLORATES	Acidi Metallic powders Ammonium salts Flammable organic substances Sulphur		

# HAZARD STATEMENTS

<b>H200</b>	Unstable explosives.
<b>H201</b>	Explosive; mass explosion hazard.
<b>H202</b>	Explosive, severe projection hazard.
<b>H203</b>	Explosive; fire, blast or projection hazard.
<b>H204</b>	Fire or projection hazard.
<b>H205</b>	May mass explode in fire.
<b>H220</b>	Extremely flammable gas.
<b>H221</b>	Flammable gas.
<b>H222</b>	Extremely flammable aerosol.
<b>H223</b>	Flammable aerosol.
<b>H224</b>	Extremely flammable liquid and vapour.
<b>H225</b>	Highly flammable liquid and vapour.
<b>H226</b>	Flammable liquid and vapour.
<b>H228</b>	Flammable solid.
<b>H240</b>	Heating may cause an explosion.
<b>H241</b>	Heating may cause a fire or explosion.
<b>H242</b>	Heating may cause a fire.
<b>H250</b>	Catches fire spontaneously if exposed to air.
<b>H251</b>	Self-heating; may catch fire.
<b>H252</b>	Self-heating in large quantities; may catch fire.
<b>H260</b>	In contact with water releases flammable gases which may ignite spontaneously.
<b>H261</b>	In contact with water releases flammable gases.
<b>H270</b>	May cause or intensify fire; oxidiser.
<b>H271</b>	May cause fire or explosion; strong oxidiser.
<b>H272</b>	May intensify fire; oxidiser.
<b>H280</b>	Contains gas under pressure; may explode if heated.
<b>H281</b>	Contains refrigerated gas; may cause cryogenic burns or injury.
<b>H290</b>	May be corrosive to metals.
<b>H300</b>	Fatal if swallowed.
<b>H301</b>	Toxic if swallowed.
<b>H302</b>	Harmful if swallowed.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H310</b>	Fatal in contact with skin.
<b>H311</b>	Toxic in contact with skin.
<b>H312</b>	Harmful in contact with skin.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H330</b>	Fatal if inhaled.
<b>H331</b>	Toxic if inhaled.
<b>H332</b>	Harmful if inhaled.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H340</b>	May cause genetic defects.
<b>H341</b>	Suspected of causing genetic defects.
<b>H350</b>	May cause cancer.
<b>H351</b>	Suspected of causing cancer.
<b>H360</b>	May damage fertility or the unborn child.
<b>H361</b>	Suspected of damaging fertility or the unborn child.
<b>H362</b>	May cause harm to breast-fed children.
<b>H370</b>	Causes damage to organs.
<b>H371</b>	May cause damage to organs.
<b>H372</b>	Causes damage to organs through prolonged or repeated exposure exposure cause the hazard.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure exposure cause the hazard.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>H413</b>	May cause long lasting harmful effects to aquatic life.



# PRECAUTIONARY STATEMENTS

<b>P101</b>	If medical advice is needed, have product container or label at hand.
<b>P102</b>	Keep out of reach of children.
<b>P103</b>	Read label before use.
<b>P201</b>	Obtain special instructions before use.
<b>P202</b>	Do not handle until all safety precautions have been read and understood.
<b>P210</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
<b>P211</b>	Do not spray on an open flame or other ignition source.
<b>P220</b>	Keep/Store away from clothing/... /combustible materials.
<b>P221</b>	Take any precaution to avoid mixing with combustibles...
<b>P222</b>	Do not allow contact with air.
<b>P223</b>	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
<b>P230</b>	Keep wetted with...
<b>P231</b>	Handle under inert gas.
<b>P232</b>	Protect from moisture.
<b>P231+P232</b>	Handle under inert gas. Protect from moisture.
<b>P233</b>	Keep container tightly closed.
<b>P234</b>	Keep only in original container.
<b>P235</b>	Keep cool.
<b>P235+P410</b>	Keep cool. Protect from sunlight.
<b>P240</b>	Ground/bond container and receiving equipment.
<b>P241</b>	Use explosion-proof electrical/ventilating/lighting/.../equipment.
<b>P242</b>	Use only non-sparking tools.
<b>P243</b>	Take precautionary measures against static discharge.
<b>P244</b>	Keep reduction valves free from grease and oil.
<b>P250</b>	Do not subject to grinding/shock/.../friction.
<b>P251</b>	Pressurized container: Do not pierce or burn, even after use.
<b>P260</b>	Do not breathe dust/fume/gas/mist/vapours/spray.
<b>P261</b>	Avoid breathing dust/fume/gas/mist/vapours/spray.
<b>P262</b>	Do not get in eyes, on skin, or on clothing.
<b>P263</b>	Avoid contact during pregnancy/while nursing.
<b>P264</b>	Wash ... thoroughly after handling.
<b>P270</b>	Do not eat, drink or smoke when using this product.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P272</b>	Contaminated work clothing should not be allowed out of the workplace.
<b>P273</b>	Avoid release to the environment.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.
<b>P281</b>	Use personal protective equipment as required.
<b>P282</b>	Wear cold insulating gloves/face shield/eye protection.
<b>P283</b>	Wear fire/flame resistant/retardant clothing.
<b>P284</b>	Wear respiratory protection.
<b>P285</b>	In case of inadequate ventilation wear respiratory protection.
<b>P301</b>	IF SWALLOWED.
<b>P301+P310</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
<b>P301+P312</b>	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
<b>P301+P330+P331</b>	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
<b>P302</b>	IF ON SKIN.
<b>P302+P334</b>	IF ON SKIN: Gently wash with plenty of soap and water.
<b>P302+P350</b>	IF ON SKIN: Wash with plenty of soap and water.
<b>P302+P352</b>	IF ON SKIN: Immerse in cool water/wrap in wet bandages.
<b>P303</b>	IF ON SKIN (or hair).
<b>P303+P361+P353</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
<b>P304</b>	IF INHALED.
<b>P304+P340</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>P304+P341</b>	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>P305</b>	IF IN EYES.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P306</b>	IF ON CLOTHING.
<b>P306+P360</b>	IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
<b>P307</b>	IF exposed
<b>P307+P311</b>	IF exposed: Call a POISON CENTER or doctor/physician.

<b>P308</b>	IF exposed or concerned.
<b>P308+P313</b>	IF exposed or concerned: Get medical advice/attention.
<b>P309</b>	IF exposed or if you feel unwell.
<b>P309+P311</b>	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
<b>P310</b>	Immediately call a POISON CENTER or doctor/physician.
<b>P311</b>	Call a POISON CENTER or doctor/physician.
<b>P312</b>	Call a POISON CENTER or doctor/physician if you feel unwell.
<b>P313</b>	Get medical advice/attention.
<b>P314</b>	Get medical advice/attention if you feel unwell.
<b>P315</b>	Get immediate medical advice/attention.
<b>P320</b>	Specific treatment is urgent (see... on this label).
<b>P321</b>	Specific treatment (see... on this label).
<b>P322</b>	Specific measures (see... on this label).
<b>P330</b>	Rinse mouth.
<b>P331</b>	Do NOT induce vomiting.
<b>P332</b>	If skin irritation occurs.
<b>P332+P313</b>	If skin irritation occurs: Get medical advice/attention.
<b>P333</b>	If skin irritation or rash occurs.
<b>P333+P313</b>	If skin irritation or rash occurs: Get medical advice/attention.
<b>P334</b>	Immerse in cool water/wrap in wet bandages.
<b>P335</b>	Brush off loose particles from skin.
<b>P335+P334</b>	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
<b>P336</b>	Thaw frosted parts with lukewarm water. Do not rub affected area.
<b>P337</b>	If eye irritation persists.
<b>P337+P313</b>	If eye irritation persists: Get medical advice/attention.
<b>P338</b>	Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P340</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>P341</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>P342</b>	If experiencing respiratory symptoms.
<b>P342+P311</b>	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
<b>P350</b>	Gently wash with plenty of soap and water.
<b>P351</b>	Rinse cautiously with water for several minutes.
<b>P352</b>	Wash with plenty of soap and water.
<b>P353</b>	Rinse skin with water/shower.
<b>P360</b>	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
<b>P361</b>	Remove/Take off immediately all contaminated clothing.
<b>P362</b>	Take off contaminated clothing and wash before reuse.
<b>P363</b>	Wash contaminated clothing before reuse.
<b>P370</b>	In case of fire.
<b>P370+P376</b>	In case of fire: Stop leak if safe to do so.
<b>P370+P378</b>	In case of fire: Use ... for extinction.
<b>P370+P380</b>	In case of fire: Evacuate area.
<b>P370+P380+P375</b>	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
<b>P371</b>	In case of major fire and large quantities.
<b>P371+P380+P375</b>	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
<b>P372</b>	Explosion risk in case of fire.
<b>P373</b>	DO NOT fight fire when fire reaches explosives.
<b>P374</b>	Fight fire with normal precautions from a reasonable distance.
<b>P375</b>	Fight fire remotely due to the risk of explosion.
<b>P376</b>	Stop leak if safe to do so.
<b>P377</b>	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
<b>P378</b>	Use ... for extinction.
<b>P380</b>	Evacuate area.
<b>P381</b>	Eliminate all ignition sources if safe to do so.
<b>P390</b>	Absorb spillage to prevent material damage.
<b>P391</b>	Collect spillage.
<b>P401</b>	Store ...
<b>P402</b>	Store in a dry place.
<b>P402+P404</b>	Store in a dry place. Store in a closed container.
<b>P403</b>	Store in a well-ventilated place.
<b>P403+P233</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>P403+P235</b>	Store in a well-ventilated place. Keep cool.
<b>P404</b>	Store in a closed container.
<b>P405</b>	Store locked up.

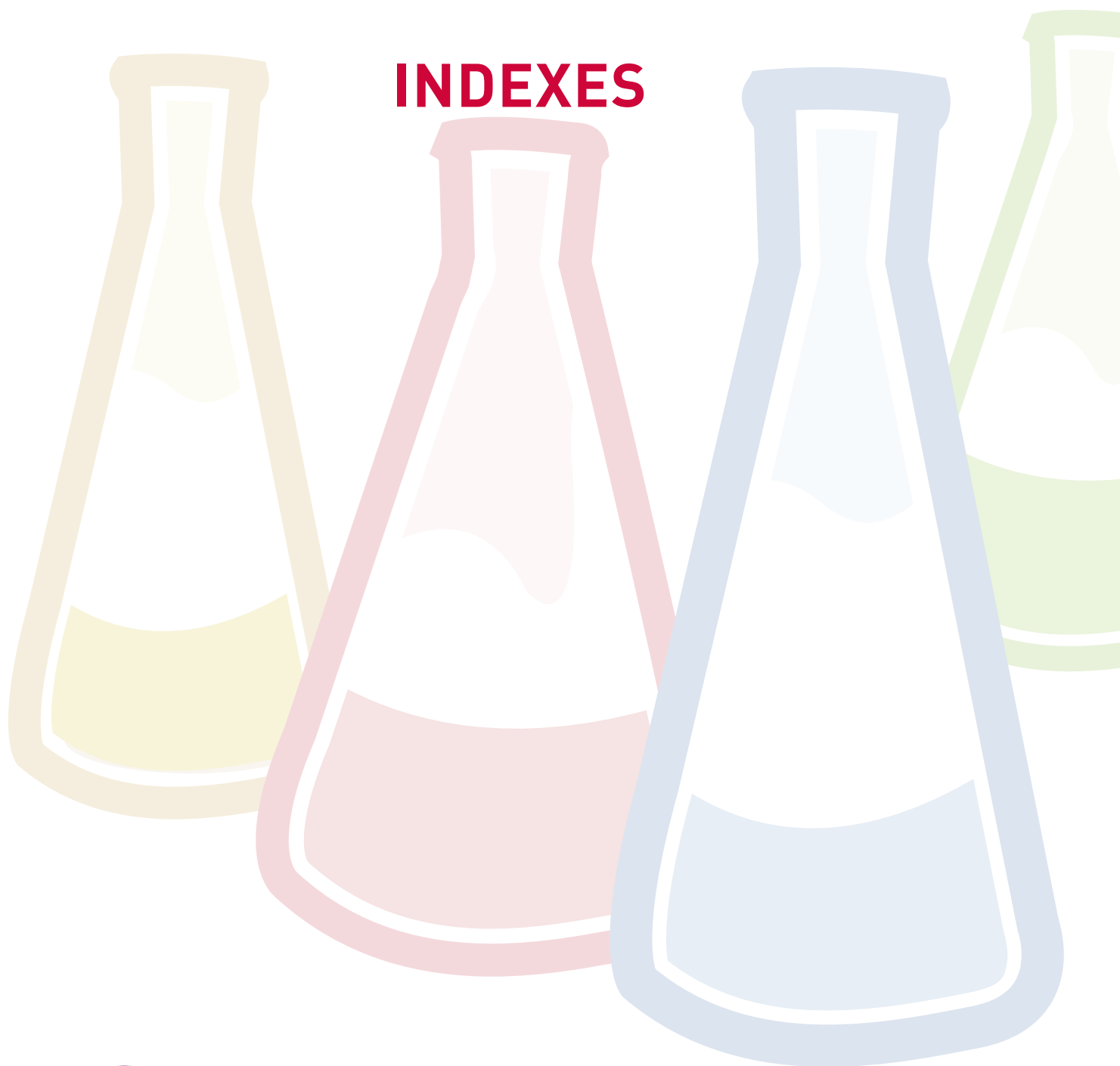
<b>P406</b>	Store in corrosive resistant/... container with a resistant inner liner.
<b>P407</b>	Maintain air gap between stacks/pallets.
<b>P410</b>	Protect from sunlight.
<b>P410+P412</b>	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
<b>P411</b>	Store at temperatures not exceeding ... °C.
<b>P411+P235</b>	Store at temperatures not exceeding ... °C.
<b>P412</b>	Do not expose to temperatures exceeding 50 °C/122 °F.
<b>P413</b>	Store bulk masses greater than ... kg.
<b>P420</b>	Store away from other materials.
<b>P422</b>	Store contents under ...
<b>P501</b>	Dispose of contents/container to ...

## ADDITIONAL STATEMENTS

<b>EUH 001</b>	Explosive when dry.
<b>EUH 006</b>	Explosive with or without contact with air.
<b>EUH 014</b>	Reacts violently with water.
<b>EUH 018</b>	In use, may form flammable/explosive vapour-air mixture.
<b>EUH 019</b>	May form explosive peroxides.
<b>EUH 029</b>	Contact with water liberates toxic gas .
<b>EUH 031</b>	Contact with acids liberates toxic gas.
<b>EUH 032</b>	Contact with acids liberates very toxic gas.
<b>EUH 044</b>	Risk of explosion if heated under confinement.
<b>EUH 059</b>	Hazardous to the ozone layer.
<b>EUH 066</b>	Repeated exposure may cause skin dryness or cracking.
<b>EUH 070</b>	Toxic by eye contact.
<b>EUH 071</b>	Corrosive to the respiratory tract.
<b>EUH 201</b>	Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
<b>EUH 201A</b>	Warning! Contains lead.
<b>EUH 202</b>	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
<b>EUH 203</b>	Contains chromium (VI). May produce an allergic reaction.
<b>EUH 204</b>	Contains isocyanates. May produce an allergic reaction.
<b>EUH 205</b>	Contains epoxy constituents. May produce an allergic reaction.
<b>EUH 206</b>	Warning! Do not use together with other products. May release dangerous gases (chlorine).
<b>EUH 207</b>	Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions.
<b>EUH 208</b>	Contains (name of sensitising substance). May produce an allergic reaction.
<b>EUH 209</b>	Can become highly flammable in use.
<b>EUH 209A</b>	Can become flammable in use.
<b>EUH 201</b>	Safety data sheet available on request.
<b>EUH 401</b>	To avoid risks to human health and the environment, comply with the instructions for use.



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333752	Cyclohexane	287	343441	Iron (III) ammonium citrate red	431	348454	Iodine	424
333753	Cyclohexane	287	343442	Iron (III) ammonium citrate red	431	348455	Iodine	424
333801	Cyclohexanol	287	343443	Iron (III) ammonium citrate red	431	348457	Iodine	424
333901	Cyclohexanone	288	343605	Iron (III) ammonium citrate green	431	348554	Iodoform	427
333902	Cyclohexanone	288	343606	Iron (III) ammonium citrate green	431	348558	Iodoform	427
333905	Cyclohexanone	288	343607	Iron (III) ammonium citrate green	431	348702	Lactose monohydrate	453
334251	Chlorobenzene	259	343757	Iron (III) ammonium oxalate	432	348703	Lactose monohydrate	453
334254	Chlorobenzene	259	344003	Iron (II) ammonium sulfate hexahydrate	429	348707	Lactose monohydrate	453
334255	Chlorobenzene	259	344007	Iron (II) ammonium sulfate hexahydrate	429	348708	Lactose monohydrate	453
334351	Chloroform	262	344008	Iron (II) ammonium sulfate hexahydrate	429	348754	Lecithin of soya	461
334353	Chloroform	262	344107	Iron (III) ammonium sulfate dodecahydrate	432	348854	Yeast dried	794
334354	Chloroform	262	344108	Iron (III) ammonium sulfate dodecahydrate	432	348901	Petroleum ether 80 - 120°C	564
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337307	p-Dichlorobenzene	298	344509	Iron (III) chloride hexahydrate	434	348957	Lithium carbonate	463
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337331	Dichloromethane	304	344959	Iron (II) sulfate heptahydrate	431	349272	Magnesium carbonate basic	470
337333	Dichloromethane	304	345355	Fluorescein sodium salt	357	349279	Magnesium carbonate basic	470
337335	Dichloromethane	304	345356	Fluorescein sodium salt	357	349355	Magnesium chloride hexahydrate	471
337337	Dichloromethane	304	345357	Fluorescein sodium salt	357	349357	Magnesium chloride hexahydrate	471
337501	Diethylamine	306	346102	Glycerol (30°Bé)	373	349359	Magnesium chloride hexahydrate	471
337801	Diethanolamine	306	346106	Glycerol (30°Bé)	373	349372	Magnesium chloride hexahydrate	471
338001	1,4-Dioxane	321	346131	Glycerol 90% (28° Bé)	373	349377	Magnesium chloride hexahydrate	471
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339385	n-Heptane 99%	381	346304	Diethylene glycol	307	350033	Magnesium stearate	474
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404197000	Hydrochloric acid 0.1 mol/l (0.1N)	406
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405792	Formic acid 99%	363	406961	Hypophosphorous acid 50%	418	409553	Propionic acid	628
405793	Formic acid 99%	363	406962	Hypophosphorous acid 50%	418	409702	Rosolic acid	640
405794	Formic acid 99%	363	407261	Maleic acid	477	409773	Salicylic acid	642
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405833	Formic acid 85%	363	407421	D(-)Mandelic acid	478	410105	Sulfamic acid	727
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405851	1-Heptanesulphonic acid sodium salt	383	407481	Methanesulfonic acid	487	410261	Sulfuric acid 96%	732
405852	1-Heptanesulphonic acid sodium salt	383	407483	Methanesulfonic acid	487	410301	Sulfuric acid 96%	732
405861	1-Octanesulphonic acid sodium salt	537	407914	Nicotinic acid	525	410302	Sulfuric acid 96%	732
405862	1-Octanesulphonic acid sodium salt	537	407951	Nitric acid 65%	531	410303	Sulfuric acid 96%	732
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405901	1-Propanesulfonic acid sodium salt	627	408071	Nitric acid 69.5%	529	410382	Sulfuric acid 96%	732
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405913	Phosphomolybdic acid	576	408075	Nitric acid 69.5%	529	410394	Sulfuric acid 90%	734
405915	Phosphomolybdic acid	576	408076	Nitric acid 69.5%	529	410405	Sulfuric acid 93-98%	734
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405931	1-Octanesulfonic acid sodium salt monohydrate	538	408101	Nitric acid 65%	531	410421	Sulfuric acid 98%	730
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405941	Dodecyltrimethylammonium bromide	325	408115	Nitric acid 67-70%	529	410516	Sulfuric acid 20%	736
405961	Orthophosphoric acid 99%	547	408116	Nitric acid 67-70%	529	410547000	Sulfuric acid 1 mol/l (2N)	738
405967	Orthophosphoric acid 99%	547	408117	Nitric acid 67-70%	529	410548000	Sulfuric acid 1 mol/l (2N)	738
405971	Tetrabutylammonium bisulfate	748	408142	Nitric acid fuming 99%	528	410571000	Sulfuric acid 0.5 mol/l (1N)	738
405972	Tetrabutylammonium bisulfate	748	408143	Nitric acid fuming 99%	528	410572000	Sulfuric acid 0.5 mol/l (1N)	738
406002	Orthophosphoric acid 85%	548	408151	Nitric acid 69.5%	528	410575000	Sulfuric acid 0.5 mol/l (1N)	738
406003	Orthophosphoric acid 85%	548	408152	Nitric acid 69.5%	528	410577000	Sulfuric acid 0.5 mol/l (1N)	738
406005	Orthophosphoric acid 85%	548	408171000	Nitric acid 1 mol/l (1N)	533	410591	Sulfuric acid 0.5 mol/l (1N)	738
406021	Orthophosphoric acid 85%	548	408176000	Nitric acid 1 mol/l (1N)	533	410634	Sulfuric acid 0.33 mol/l (2N/3)	738
406022	Orthophosphoric acid 85%	548	408185000	Nitric acid 2 mol/l (2N)	533	410662000	Sulfuric acid 0.25 mol/l (0.5N)	739
406053	Phosphonic acid	577	408191	Nitric acid 18%	532	410663000	Sulfuric acid 0.25 mol/l (0.5N)	739
406056	Phosphonic acid	577	408206000	Nitric acid 0.1 mol/l (0.1N)	533	410667000	Sulfuric acid 0.25 mol/l (0.5N)	739
406154	Phosphotungstic acid	578	408231	Nitric acid 0.1 mol/l (0.1N)	533	410681	Sulfuric acid 0.25 mol/l (0.5N)	739
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406284	Fumaric acid	365	408414	m-Nitrobenzoic acid	535	410712000	Sulfuric acid 0.05 mol/l (0.1N)	741
406287	Fumaric acid	365	408731	Oxalic acid dihydrate	550	410714000	Sulfuric acid 0.05 mol/l (0.1N)	741
406335	Gallic acid monohydrate	367	408733	Oxalic acid dihydrate	550	410715000	Sulfuric acid 0.05 mol/l (0.1N)	741
406336	Gallic acid monohydrate	367	408736	Oxalic acid dihydrate	550	410717000	Sulfuric acid 0.05 mol/l (0.1N)	741
406434	Glycolic acid	374	408737	Oxalic acid dihydrate	550	410731	Sulfuric acid 0.05 mol/l (0.1N)	741
406485	L(+)-Glutamic acid	371	408826	Oxalic acid 0.5 mol/l (1N)	551	410791	Sulfuric acid 0.005 mol/l (0.01N)	742
			408856	Oxalic acid 0.05 mol/l (0.1N)	551	410894	Sulfosalicylic acid	729
			408871	Oxalic acid 0.05 mol/l (0.1N)	551	410896	Sulfosalicylic acid	729
			408901	Oxalic acid 0.005 mol/l (0.01N)	551	411023	Succinic acid	725
			409064	1-Pentanesulphonic acid sodium salt	559	411025	Succinic acid	725
			409111	Perchloric acid 65%	561	411027	Succinic acid	725
			409113	Perchloric acid 65%	561	411074	Tannic acid	744
			409121	Perchloric acid 65%	561	411076	Tannic acid	744
			409131	Perchloric acid 0.1 mol/l (0.1N) in acetic acid	562	411121	L(+) Tartaric Acid	745
			409136	Perchloric acid 0.1 mol/l (0.1N) in acetic acid	562	411125	L(+) Tartaric Acid	745
			409182	Periodic acid	563	411127	L(+) Tartaric Acid	745
			409184	Periodic acid	563	411271	2-Thiobarbituric acid	755
			409185	Periodic acid	563	411272	2-Thiobarbituric acid	755
			409193	Perchloric acid 65-71%	560	411385	Thioglycolic acid 80%	755
			409302	Picric acid solution	580	411432	p-Toluenesulfonic acid	768
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			409435	Pyrogallol	632	411504	p-Toluenesulfonic acid sodium salt	769
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411542	Trifluoroacetic acid	773	412442000	Isooctane	439	414024	Benzyl alcohol	200
411543	Trifluoroacetic acid	773	412451000	Tetrahydrofuran	751	414052	Benzyl alcohol	200
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444956	N,N-Dimethylformamide	315	446903	n-Hexane	387	447851	Petroleum ether 40 - 65°C	566
444957	N,N-Dimethylformamide	315	446904	n-Hexane	387	447852	Petroleum ether 40 - 65°C	566
444981	N,N-Dimethylformamide	314	446905	n-Hexane	387	447861	Petroleum ether 35 - 60°C	567
444982	N,N-Dimethylformamide	314	446907	n-Hexane	387	447862	Petroleum ether 35 - 60°C	567
444991	N,N-Dimethylformamide	315	446932	n-Hexane	387	447931	Diisopropylether	312
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451576	Iron (II) chloride tetrahydrate	430	453337	Silica gel 60A 0,06±0,20 mm	650	455955	Iodine resublimed	425
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451696	Iron (III) chloride anhydrous sublimed	433	453518	Clayton's yellow	270	456121	Iodine 0.005 mol/l (0.01N)	426
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			453906	Ethylene glycol	348	457625	Devarda's alloy	294
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458163	Lithium tetraborate anhydrous	465	459965	Manganese electrolytic	479	463311	Dichloromethane	303
458164	Lithium tetraborate anhydrous	465	460001	Manganese (II) acetate tetrahydrate	480	463314	Dichloromethane	303
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472041000	Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	605
472042000	Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	605
472056	Potassium hydroxide, pellets	600
472057	Potassium hydroxide, pellets	600
472059	Potassium hydroxide, pellets	600
472086	Potassium hydroxide, pellets	599
472092	Potassium hydroxide, pellets	599
472097	Potassium hydroxide, pellets	599
472103	Potassium hydroxide solution 45%	600
472171	Potassium hydroxide, pellets	600
472172	Potassium hydroxide, pellets	600
472173	Potassium hydroxide, pellets	600
472175	Potassium hydroxide, pellets	600
472281000	Potassium hydroxide 1 mol/l (1N)	602
472282000	Potassium hydroxide 1 mol/l (1N)	602
472287000	Potassium hydroxide 1 mol/l (1N)	602
472311	Potassium hydroxide 1 mol/l (1N)	602
472331000	Potassium hydroxide 0.5 mol/l (0.5N)	602
472332000	Potassium hydroxide 0.5 mol/l (0.5N)	602
472337000	Potassium hydroxide 0.5 mol/l (0.5N)	602
472364000	Potassium hydroxide 0.5 mol/l (0.5N) in methanol	603
472366000	Potassium hydroxide 0.5 mol/l (0.5N) in methanol	603
472367000	Potassium hydroxide 0.5 mol/l (0.5N) in methanol	603
472391	Potassium hydroxide 0.5 mol/l (0.5N)	603
472421000	Potassium hydroxide 0.25 mol/l (0.25N)	604
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Product specifications are subject to changes. Please visit our website for updates.

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472451000	Potassium hydroxide 0.1 mol/l (0.1N)	605	474205	Potassium sulfate	618	477187	D(+)-Sucrose	726
472452000	Potassium hydroxide 0.1 mol/l (0.1N)	605	474355	Potassium thiocyanate	620	477232	Safranine T	642
472457000	Potassium hydroxide 0.1 mol/l (0.1N)	605	474357	Potassium thiocyanate	620	477241	Safranine T hydroalcoholic solution for Gram-Hucker Kit	642
472484000	Potassium hydroxide 0.1 mol/l (0.1N) in methanol	605	474465	Potassium tartrate	618	477591	Schiff's reagent for PAS coloration	646
472486000	Potassium hydroxide 0.1 mol/l (0.1N) in methanol	605	474467	Potassium tartrate	618	477592	Schiff's reagent for PAS coloration	646
472511	Potassium hydroxide 0.1 mol/l (0.1N)	605	474515	Potassium L-tartrate monobasic	619	477601	Schiff's reagent for Aldehydes	645
472563	Potassium iodate	606	474517	Potassium L-tartrate monobasic	619	477691	Selenium standard solution	647
472565	Potassium iodate	606	474652	Potassium tellurite	619	477702	Selenium, powder	646
472601	Potassium iodate 0.0167 mol/l (0.1N)	606	474708	L(-)Proline	622	477721	Molecular sieves 3 A	510
472631	Potassium iodate 0.00167 mol/l (0.01N)	607	474756	Isopropylamine	442	477731	Molecular sieves 3 A	510
472641	Potassium hydrogen iodate	597	474807	n-Propyl acetate	628	477762	Selenium dioxide	648
472735	Potassium iodide	607	474821	Isopropyl acetate	441	477961	Silicon standard solution	652
472736	Potassium iodide	607	474871	Propylene carbonate	629	478032	Redox solution 220 mV at 25°C	636
472737	Potassium iodide	607	475132	Raffinose	635	478052	Redox solution 468 mV at 25°C	637
472815000	Potassium iodide solution 3.9%	608	475151	Copper standard solution	276	478101	Sodium standard solution	661
472821	Potassium iodide	607	475185	Copper electrolytic, wire	275	478132	Sodium acetate trihydrate	662
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473009	Potassium nitrate	609	475334	Copper reduced, powder	275	478163	Sodium acetate anhydrous	662
473045	Potassium nitrate 1 mol/l (1N)	610	475337	Copper reduced, powder	275	478165	Sodium acetate anhydrous	662
473084	Potassium nitrite	610	475405	Copper (II) acetate hydrate	277	478166	Sodium acetate anhydrous	662
473133	Potassium oxalate monohydrate	610	475407	Copper (II) acetate hydrate	277	478167	Sodium acetate anhydrous	662
473135	Potassium oxalate monohydrate	610	475553	Copper (II) carbonate (basic)	278	478232	Sodium aluminate	663
473137	Potassium oxalate monohydrate	610	475555	Copper (II) carbonate (basic)	278	478237	Sodium aluminate	663
473332	Potassium m-periodate	611	475557	Copper (II) carbonate (basic)	278	478357	Sodium ammonium hydrogen phosphate	664
473334	Potassium m-periodate	611	475605	Copper (I) chloride	276	478481	Sodium azide	665
473381	Potassium permanganate	611	475607	Copper (I) chloride	276	478482	Sodium azide	665
473384	Potassium permanganate	611	475685	Copper (II) chloride dihydrate	278	478484	Sodium azide	665
473385	Potassium permanganate	611	475687	Copper (II) chloride dihydrate	278	478531	Sodium bicarbonate	665
473387	Potassium permanganate	611	475782	Copper (II) nitrate trihydrate	279	478532	Sodium bicarbonate	665
473514000	Potassium permanganate 0.2 mol/l (1N)	612	475783	Copper (II) nitrate trihydrate	279	478535	Sodium bicarbonate	665
473565000	Potassium permanganate 0.02 mol/l (0.1N)	612	475784	Copper (II) nitrate trihydrate	279	478536	Sodium bicarbonate	665
473567000	Potassium permanganate 0.02 mol/l (0.1N)	612	475786	Copper (II) nitrate trihydrate	279	478537	Sodium bicarbonate	665
473591	Potassium permanganate 0.02 mol/l (0.1N)	612	475966	Copper (II) oxide wire	279	478673	Sodium bisulfate monohydrate	666
473661	Potassium permanganate 0.002 mol/l (0.01N)	613	475994	Copper (II) oxide	279	478675	Sodium bisulfate monohydrate	666
473701	Potassium persulfate	613	475997	Copper (II) oxide	279	478676	Sodium bisulfate monohydrate	666
473835	Potassium pyroantimonate acid	615	476092	Copper (II) sulfate pentahydrate	280	478677	Sodium bisulfate monohydrate	666
473915	tetra-Potassium pyrophosphate	616	476096	Copper (II) sulfate pentahydrate	280	478678	Sodium bisulfate monohydrate	666
474016	Potassium pyrosulphate	616	476097	Copper (II) sulfate pentahydrate	280	478812	Sodium tetraborate decahydrate	710
474112	Potassium sodium tartrate tetrahydrate	617	476099	Copper (II) sulfate pentahydrate	280	478815	Sodium tetraborate decahydrate	710
474114	Potassium sodium tartrate tetrahydrate	617	476154	Copper (II) sulfate pentahydrate	280	478816	Sodium tetraborate decahydrate	710
474115	Potassium sodium tartrate tetrahydrate	617	476243	Copper (II) sulfate anhydrous	280	478817	Sodium tetraborate decahydrate	710
474116	Potassium sodium tartrate tetrahydrate	617	476245	Copper (II) sulfate anhydrous	280	478819	Sodium tetraborate decahydrate	710
474117	Potassium sodium tartrate tetrahydrate	617	476247	Copper (II) sulfate anhydrous	280	478953	Sodium borohydride	666
474119	Potassium sodium tartrate tetrahydrate	617	476312	L(+)-Rhamnose	638	478955	Sodium borohydride	666
474166	Potassium sulfate	618	476565	Resorcinol	637	478957	Sodium borohydride	666
474167	Potassium sulfate	618	476608	D(-)-Ribose	639	478964	Sodium borohydride	666
			476671	Potassium permanganate	611	479055	Sodium bromide	667
			476687	Quinaldine red	634	479057	Sodium bromide	667
			476688	Quinaldine red	634	479121	Sodium carbonate decahydrate	668
			476762	Congo red	273	479122	Sodium carbonate decahydrate	668
			476764	Congo red	273	479125	Sodium carbonate decahydrate	668
			476778	o-Cresol red	283	479126	Sodium carbonate decahydrate	668
			476838	Phenol red	570	479127	Sodium carbonate decahydrate	668
			476839	Phenol red	570	479151	Sodium carbonate solution 20%	670
			476881	Methyl red	503	479186	Sodium carbonate 0.5 mol/l (1N)	669
			476882	Methyl red	503	479211	Sodium carbonate 0.05 mol/l (0.1N)	669
			476883	Methyl red	503	479255	Sodium carbonate monohydrate	669
			476941	Ponceau red BS	581			
			476951	Neutral red	521			
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			477011	Nuclear fast red	536			
			477012	Nuclear fast red	536			
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479301	Sodium carbonate anhydrous	667	480144	Sodium phosphate dibasic anhydrous	700	480891000	Sodium hydroxide 0.1 mol/l (0.1N)	690
479302	Sodium carbonate anhydrous	667	480222	Sodium phosphate dibasic dihydrate	701	480892000	Sodium hydroxide 0.1 mol/l (0.1N)	690
479305	Sodium carbonate anhydrous	667	480225	Sodium phosphate dibasic dihydrate	701	480893000	Sodium hydroxide 0.1 mol/l (0.1N)	690
479306	Sodium carbonate anhydrous	667	480226	Sodium phosphate dibasic dihydrate	701	480895000	Sodium hydroxide 0.1 mol/l (0.1N)	690
479307	Sodium carbonate anhydrous	667	480227	Sodium phosphate dibasic dihydrate	701	480897000	Sodium hydroxide 0.1 mol/l (0.1N)	690
479331	Sodium carbonate anhydrous	667	480271	Sodium phosphate tribasic dodecahydrate	704	480921	Sodium hydroxide 0.1 mol/l (0.1N)	690
479371	Sodium cyanoborohydride	674	480272	Sodium phosphate tribasic dodecahydrate	704	481001	Sodium hydroxide 0.01 mol/l (0.01N)	690
479484	Sodium citrate tribasic dihydrate	673	480275	Sodium phosphate tribasic dodecahydrate	704	481162	Sodium iodide	693
479485	Sodium citrate tribasic dihydrate	673	480276	Sodium phosphate tribasic dodecahydrate	704	481163	Sodium iodide	693
479486	Sodium citrate tribasic dihydrate	673	480277	Sodium phosphate tribasic dodecahydrate	704	481164	Sodium iodide	693
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479488	Sodium citrate tribasic dihydrate	673	480502	Sodium hydroxide, pellets	679	481185	Sodium hypochlorite solution in water	692
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479661	Sodium chloride	671	480507	Sodium hydroxide, pellets	679	481202	Sodium hypophosphite	693
479662	Sodium chloride	671	480508	Sodium hydroxide, pellets	679	481231	Sodium laurylsulfate	693
479663	Sodium chloride	671	480509	Sodium hydroxide, pellets	679	481233	Sodium laurylsulfate	693
479671	Sodium chloride	670	480522	Sodium hydroxide, pellets	679	481235	Sodium laurylsulfate	693
479681	Sodium chloride	671	480525	Sodium hydroxide, pellets	679	481283	Sodium metabisulfite	694
479685	Sodium chloride	671	480527	Sodium hydroxide, pellets	679	481286	Sodium metabisulfite	694
479686	Sodium chloride	671	480561	Sodium hydroxide solution 32%	681	481287	Sodium metabisulfite	694
479687	Sodium chloride	671	480562	Sodium hydroxide solution 32%	681	481288	Sodium metabisulfite	694
479689	Sodium chloride	671	480563	Sodium hydroxide solution 32%	681	481552	Sodium metaphosphate	695
479781	Sodium chloride 0.1 mol/l (0,1N)	672	480564	Sodium hydroxide solution 32%	681	481557	Sodium metaphosphate	695
479833	Sodium cobalt nitrite	673	480566	Sodium hydroxide solution 32%	681	481684	Sodium molybdate dihydrate	695
479911	Tris (hydroxymethyl)-aminomethane hydrochloride	778	480591	Sodium hydroxide solution 35%	681	481685	Sodium molybdate dihydrate	695
479912	Tris (hydroxymethyl)-aminomethane hydrochloride	778	480593	Sodium hydroxide solution 35%	681	481687	Sodium molybdate dihydrate	695
479913	Tris (hydroxymethyl)-aminomethane hydrochloride	778	480621	Sodium hydroxide solution 20% w/w	683	481751	Sodium nitrate	696
479921	Sodium dichloroisocyanurate dihydrate	674	480622	Sodium hydroxide solution 20% w/w	683	481755	Sodium nitrate	696
479954	Sodium fluoride	675	480631	Sodium hydroxide solution 20% w/w	683	481756	Sodium nitrate	696
479955	Sodium fluoride	675	480681000	Sodium hydroxide 2 mol/l (2N)	686	481757	Sodium nitrate	696
479957	Sodium fluoride	675	480682000	Sodium hydroxide 2 mol/l (2N)	686	481759	Sodium nitrate	696
480005	Sodium hexafluorosilicate	677	480684000	Sodium hydroxide 2 mol/l (2N)	686	481825	Sodium nitrite	696
480045	Sodium formate	675	480686000	Sodium hydroxide 2 mol/l (2N)	686	481826	Sodium nitrite	696
480046	Sodium formate	675	480687000	Sodium hydroxide 2 mol/l (2N)	686	481827	Sodium nitrite	696
480081	Sodium phosphate monobasic monohydrate	703	480711000	Sodium hydroxide 1 mol/l (1N)	687	481829	Sodium nitrite	696
480082	Sodium phosphate monobasic monohydrate	703	480713000	Sodium hydroxide 1 mol/l (1N)	687	481932	Sodium nitroprusside dihydrate	697
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480086	Sodium phosphate monobasic monohydrate	703	480717000	Sodium hydroxide 1 mol/l (1N)	687	482041	Sodium o-Phosphite pentahydrate	704
480087	Sodium phosphate monobasic monohydrate	703	480741	Sodium hydroxide 1 mol/l (1N)	687	482042	Sodium o-Phosphite pentahydrate	704
480131	Sodium phosphate dibasic dodecahydrate	702	480771000	Sodium hydroxide 0.5 mol/l (0.5N)	688	482064	Sodium oxalate	698
480132	Sodium phosphate dibasic dodecahydrate	702	480772000	Sodium hydroxide 0.5 mol/l (0.5N)	688	482065	Sodium oxalate	698
480133	Sodium phosphate dibasic dodecahydrate	702	480773000	Sodium hydroxide 0.5 mol/l (0.5N)	688	482067	Sodium oxalate	698
480135	Sodium phosphate dibasic dodecahydrate	702	480777000	Sodium hydroxide 0.5 mol/l (0.5N)	688	482101	Sodium oxalate	698
480136	Sodium phosphate dibasic dodecahydrate	702	480801	Sodium hydroxide 0.5 mol/l (0.5N)	688	482183	Sodium perborate tetrahydrate	698
480137	Sodium phosphate dibasic dodecahydrate	702	480837000	Sodium hydroxide 0.357 mol/l (0.357N)	688	482185	Sodium perborate tetrahydrate	698
480141	Sodium phosphate dibasic anhydrous	700	480861000	Sodium hydroxide 0.25 mol/l (0.25N)	688	482187	Sodium perborate tetrahydrate	698
			480862000	Sodium hydroxide 0.25 mol/l (0.25N)	688	482204	Sodium perchlorate monohydrate	699
						482234	Sodium metaperiodate	694
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						482252	Sodium peroxide	699
						482363	Sodium persulfate	699
						482365	Sodium persulfate	699
						482367	Sodium persulfate	699
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482957	Sodium sulfate decahydrate	707	485074	Tin (IV) chloride pentahydrate	762	486841	Buffer pH 4.62	219
482959	Sodium sulfate decahydrate	707	485076	Tin (IV) chloride pentahydrate	762	486871	Buffer pH 6.88	220
483001	Sodium sulfate anhydrous	706	485154	Tin (IV) oxide	762	486881	Buffer pH 9.22	223
483005	Sodium sulfate anhydrous	706	485304	Strontium acetate	723	486903	Tartrazine	746
483006	Sodium sulfate anhydrous	706	485354	Strontium bromide monohydrate	723	487002	Tellurium lumps	746
483007	Sodium sulfate anhydrous	706	485391	Strontium standard solution	723	487023	Tellurium powder	747
483009	Sodium sulfate anhydrous	706	485404	Strontium carbonate	724	487051	Tetrabutylammonium bromide	749
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483252	Sodium sulfite anhydrous	708	485455	Strontium chloride hexahydrate	724	487152	Tetraethylammonium bromide	751
483256	Sodium sulfite anhydrous	708	485457	Strontium chloride hexahydrate	724	487301	Tetrahydrofuran	752
483257	Sodium sulfite anhydrous	708	485605	Strontium nitrate	724	487303	Tetrahydrofuran	752
483258	Sodium sulfite anhydrous	708	485607	Strontium nitrate	724	487305	Tetrahydrofuran	752
483354	Sodium sulfocyanate	709	485705	Strontium sulfate	725	487307	Tetrahydrofuran	752
483356	Sodium sulfocyanate	709	485902	Sudan III	726	487308	Tetrahydrofuran	752
483484	Sodium sulfide nonahydrate	707	485961	Sulfanilamide	728	487309	Tetrahydrofuran	752
483485	Sodium sulfide nonahydrate	707	485971	Sulfanilamide	728	487345	Tetrahydrofuran	752
483487	Sodium sulfide nonahydrate	707	486211	Buffer pH 1	216	487352	Tetrahydrofuran	752
483489	Sodium sulfide nonahydrate	707	486221	Buffer pH 1	216	487491	Tetramethylammonium hydroxide 10%	753
483551	Sodium succinate hexahydrate	706	486231	Buffer pH 2	217	487492	Tetramethylammonium hydroxide 10%	753
483554	Sodium succinate hexahydrate	706	486241	Buffer pH 2	217	487601	N,N,N',N' - Tetramethyl-p-phenylenediamine dihydrochloride	753
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483637	Sodium tartrate dihydrate	709	486274	Buffer pH 4	218	488104	Thiourea	756
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483736	Sodium tetraborate anhydrous	709	486301	Buffer pH 5	219	488162	Tisab III solution	763
483751	Sodium tetraphenylborate	710	486311	Buffer pH 5	219	488251	Titanium dioxide	764
483758	Sodium tetraphenylborate	710	486321	Buffer pH 6	220	488256	Titanium dioxide	764
483821	Sodium thiosulfate pentahydrate	711	486331	Buffer pH 6	220	488257	Titanium dioxide	764
483825	Sodium thiosulfate pentahydrate	711	486401	Buffer pH 6.8	220	488421	Titanium isopropylate	764
483826	Sodium thiosulfate pentahydrate	711	486411	Buffer pH 7.20 Weise	221	488461	o-Tolidine solution 0.1%	765
483827	Sodium thiosulfate pentahydrate	711	486421	Buffer pH 7	221	488531	Toluene	766
483829	Sodium thiosulfate pentahydrate	711	486431	Buffer pH 7	221	488551	Toluene	767
484026	Sodium thiosulfate 1 mol/l (1N)	712	486441	Buffer pH 7.2	221	488552	Toluene	767
484071000	Sodium thiosulfate 0.1 mol/l (0.1N)	712	486451	Buffer pH 7	221	488555	Toluene	767
484072000	Sodium thiosulfate 0.1 mol/l (0.1N)	712	486453	Buffer pH 7	221	488556	Toluene	767
484077000	Sodium thiosulfate 0.1 mol/l (0.1N)	712	486454	Buffer pH 7	221	488557	Toluene	767
484121	Sodium thiosulfate 0.1 mol/l (0.1N)	713	486455	Buffer pH 7	221	488591	Toluene	766
484141	Sodium thiosulfate 0.0394 mol/l (0.0394N)	713	486456	Buffer pH 7	221	488592	Toluene	766
484155	Sodium thiosulfate 0.0197 mol/l (0.0197N)	713	486461	Buffer pH 7.4	222	488594	Toluene	766
484161	Sodium thiosulfate 0.01 mol/l (0.01N)	713	486531	Buffer pH 8	222	488601	Toluene	766
484233	Sodium tungstate dihydrate	714	486541	Buffer pH 8	222	488602	Toluene	766
484236	Sodium tungstate dihydrate	714	486542	Buffer pH 8	222	488661	p-Toluene sulfonamide	768
484701	D-Sorbitol	715	486571	Buffer pH 9	223	489054	Litmus	465
484704	D-Sorbitol	715	486581	Buffer pH 10.06	224	489152	Triacetin	769
484705	D-Sorbitol	715	486591	Buffer pH 9	223	489162	Turbidity std 4000NTU formazine	780
484861	Tin standard solution	760	486593	Buffer pH 9	223	489382	1,2,4-Trichlorobenzene	771
484887	Tin foil	759	486594	Buffer pH 9	223	489501	Triethanolamine	771
484914	Tin, powder	759	486601	Buffer pH 10	224	489504	Triethanolamine	771
484917	Tin, powder	759	486611	Buffer pH 10	224	489556	Triethylamine	772
485002	Tin (II) chloride dihydrate	761	486613	Buffer pH 10	224	489561	N,O-Bis(trimethylsilyl)-trifluoroacetamide	204
485004	Tin (II) chloride dihydrate	761	486614	Buffer pH 10	224	489581	Trioctylphosphine oxide	775
			486615	Buffer pH 10	224	489591	Triphenylphosphine	776
			486621	Buffer pH 12	225	489631	Triethylamine	772
			486631	Buffer pH 11	224	489633	Triethylamine	772
			486641	Buffer pH 13	225	489651	2,3,5-Triphenyltetrazolium chloride	776
			486691	Buffer pH 12	225	489831	Trimethylcetyl ammonium bromide	775
			486701	Buffer pH 13	225	489833	Trimethylcetyl ammonium bromide	775
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489971	Tris (hydroxymethyl)-aminomethane	776	494506	Zinc nitrate hexahydrate	800	502782	Sodium hydroxide 0.2 mol/l (0.2N)	689
489973	Tris (hydroxymethyl)-aminomethane	776	494507	Zinc nitrate hexahydrate	800	502791	Kjeldahl catalyst without selenium and titanium	450
489981	Tris (hydroxymethyl)-aminomethane	776	494602	Zinc oxide	801	502792	Kjeldahl catalyst without selenium and titanium	450
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489984	Tris (hydroxymethyl)-aminomethane	776	494607	Zinc oxide	801	502811	Kjeldahl antifoam	449
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490001	Tropaeolin O	778	494905	Zinc sulfate heptahydrate	802	502831	Hydrochloric acid 6 mol/l (6N)	401
490002	Tropaeolin O	778	494906	Zinc sulfate heptahydrate	802	502832	Hydrochloric acid 6 mol/l (6N)	401
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490757	Urea	782	494921	Zinc sulfate 0.1 mol/l (0.2N)	803	503181	Chlorate standard solution	257
490758	Urea	782	494931	Zinc sulfate 0.05 mol/l (0.05N)	803	503183	Chlorate standard solution	257
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491304	Malachite green	476	497555	Mercury standard solution	484	503202	Palladium nitrate 2 g/l solution	554
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491352	Methyl green	499	502002	Boric acid 4%	206	503213	Bromide standard solution	210
491371	Light green	461	502010	Hydrochloric acid 4 mol/l (4N)	402	503221	Calcium standard solution	235
491372	Light green	461	502011	Hydrochloric acid 3 mol/l (3N)	403	503223	Calcium standard solution	235
491391	Fast green FCF	353	502020	Sulfuric acid d=1.820	743	503231	Chloride standard solution	257
491502	Crystal violet	284	502044	Hydrogen peroxide solution 30%	414	503233	Chloride standard solution	257
491561	Crystal violet oxalate for Gram-Hucker Kit	284	502050	Amidoschwarz 10B solution	157	503241	Chromate standard solution	264
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492304	Xylene, mix of isomers	791	502112	Sodium hydroxide solution 35-37%	681	503281	Lithium standard solution	462
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492358	Xylene, mix of isomers	791	502122	Kjeldahl catalyst for water analysis	450	503293	Magnesium standard solution	469
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P9350046	Sodium hypochlorite solution 12.5%	692
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PS0047/15	Sulfuric acid 0.01 mol/l (0.02N)	741
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PS0219/96	Sulfuric acid 0.02 mol/l (0.04N)	741
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7631-86-9	Silica gel 60A 20 - 45µ	648	7664-39-3	Hydrofluoric acid 39.5%	412	7697-37-2	Nitric acid 2 mol/l (2N)	533
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Acido cloridrico 23%	399	Acido fosfotungstico	578
Acido cloridrico 20%	399	Acido fosfotungstico soluzione	578
Acido cloridrico 12%	399	Acido ftalico	579
Acido cloridrico 10%	400	Acido fumarico	365
Acido cloridrico 8%	400	Acido gallico monoidrato	367
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Acido cloridrico 1.128% m/v	401		
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		Acido D(-)-mandelico	478
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		Acido nitrico 2 mol/l (2N)	533
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		Acido ossalico diidrato	550
		Acido ossalico 0.5 mol/l (1N)	551
		Acido ossalico 0.05 mol/l (0.1N)	551
		Acido ossalico 0.005 mol/l (0.01N)	551
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		Acido perclorico 65%	561
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		Acido solforico 72%	735
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		Acido solforico 50%	735
		Acido solforico 35% (30°Bé)	736
		Acido solforico 30%	736
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Acido solforico 10% v/v	737	Alliltiurea	150	Anidride succinica	725
Acido solforico 4 mol/l (8N)	737	Allumina bianca	151	Anidride trifluoroacetica	774
Acido solforico 2.5 mol/l (5N)	737	Alluminio, polvere	151	Anidride tungstica	780
Acido solforico 1 mol/l (2N)	737	Alluminio standard soluzione	151	Anilina cloridrato	181
Acido solforico 0.5 mol/l (1N)	738	Alluminio ammonio solfato dodecaidrato	152	Antimonio standard soluzione	182
Acido solforico 0.33 mol/l (2N/3)	738	Alluminio cloruro anidro	153	Antimonio potassio tartrato	183
Acido solforico 0.26 mol/l (0.52N)	739	Alluminio cloruro esaidrato	153	Antimonio tricloruro	183
Acido solforico 0.25 mol/l (0.5N)	739	Alluminio idrossido	154	Antrone	182
Acido solforico 0.166 mol/l (0.333N)	739	Alluminio nitrato nonaidrato	154	Arancio acridina	147
Acido solforico 0.13 mol/l (0.26N)	740	Alluminio ossido	155	Arancio G	539
Acido solforico 0.125 mol/l (0.25N)	740	Alluminio ossido attivo	156	Arancio II	539
Acido solforico 0.1 mol/l (0.2N)	740	Alluminio ossido (acido)	155	Arancio metile	501
Acido solforico 0.05 mol/l (0.1N)	740	Alluminio ossido (basico)	155	Arancio metile soluzione 0.1%	501
Acido solforico 0.025 mol/l (0.05N)	741	Alluminio ossido (neutro)	156	Arancio xilenolo	793
Acido solforico 0.02 mol/l (0.04N)	741	Alluminio potassio solfato dodecaidrato	156	Argento, lamina	652
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Acido solforico 0.0025 mol/l (0.005N)	742	Amido solubile soluzione	721	Argento acetato	654
Acido solforico, diluito	743	Amido di mais	476	Argento carbonato	654
Acido solfosalicilico	729	Amido di riso	640	Argento cloruro	654
Acido stearico	722	Amido nero 10B in soluzione	157	Argento dietilditiocarbammato	655
Acido succinico	725	4-Amminofenazone	159	Argento nitrato	655
Acido tannico	744	m-Amminofenolo	159	Argento nitrato soluzione 5%	656
Acido L(+)-tartarico	745	p-Amminofenolo	159	Argento nitrato soluzione 2.9075%	656
Acido L(+)-tartarico soluzione 20% in acqua	746	Amminopirazolone soluzione	159	Argento nitrato soluzione	658
Acido 2-tiobarbiturico	755	Ammoniaca soluzione 32%	160	Argento nitrato 1 mol/l (1N)	656
Acido tioglicolico 80%	755	Ammoniaca soluzione 30%	160	Argento nitrato 0.5 mol/l (0.5N)	656
Acido p-toluensolfonico monoidrato	768	Ammoniaca soluzione 28%	161	Argento nitrato 0.1 mol/l (0.1N)	657
Acido p-toluensolfonico sale sodico	769	Ammoniaca soluzione 25%	162	Argento nitrato 0.1 mol/l (0.1N) in isopropanolo	657
Acido tricloroacetico	770	Ammoniaca soluzione 20 - 22%	163	Argento nitrato 0.05 mol/l (0.05N)	657
Acido tricloroacetico soluzione 20%	770	Ammoniaca soluzione 17%	164	Argento nitrato 0.01 mol/l (0.01N)	658
Acido trifluoroacetico	773	Ammoniaca soluzione 10%	164	Argento nitrato 0.01 mol/l (0.01N) in isopropanolo	658
Acido trifluoroacetico-d	774	Ammonio soluzione 6N	164	Argento ossido	659
Acido tungstico	780	Ammoniaca soluzione diluita	164	Argento solfato	659
Acqua	786	Ammonio standard soluzione	165	Argento solfato soluzione 0.7% in acido solforico	659
Acqua deionizzata acidificata	789	Ammonio acetato	166	Argento solfato 10 g/l in acido solforico	742
Acqua purificata	788	Ammonio bicarbonato	167	Argento solfato 6.6 g/l in acido solforico	743
Acqua + 0.1%(v/v) acido formico	789	Ammonio bifluoruro	172	L(+)-Arginina	184
Acqua+ 0.1% v/v acido trifluoroacetico	789	Ammonio bromuro	167	L(+)-Arginina monocloridrato	184
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Alcole n-amilico	180	Ammonio ferrosolfato (II) 0.12N	429	Ausilab 250	188
Alcole ter-amilico	180	Ammonio fluoruro	171	Ausilab 260	188
Alcole benzilico	200	Ammonio formiato	171	Ausilab 280	188
Alcole ter-butilico	227	Ammonio fosfato bibasico	176	Ausilab 290	188
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- Stability studies

## ■ DOCUMENTATION

- BSE/TSE statement
- OGM statement
- Residual solvents statement
- ICH Q3D
- Risk assessment (2015/C95/02)

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