

Empower your Lab

EMSURE® | EMPARTA® | EMPLURA® Inorganic Reagents & Solvents for classical analysis

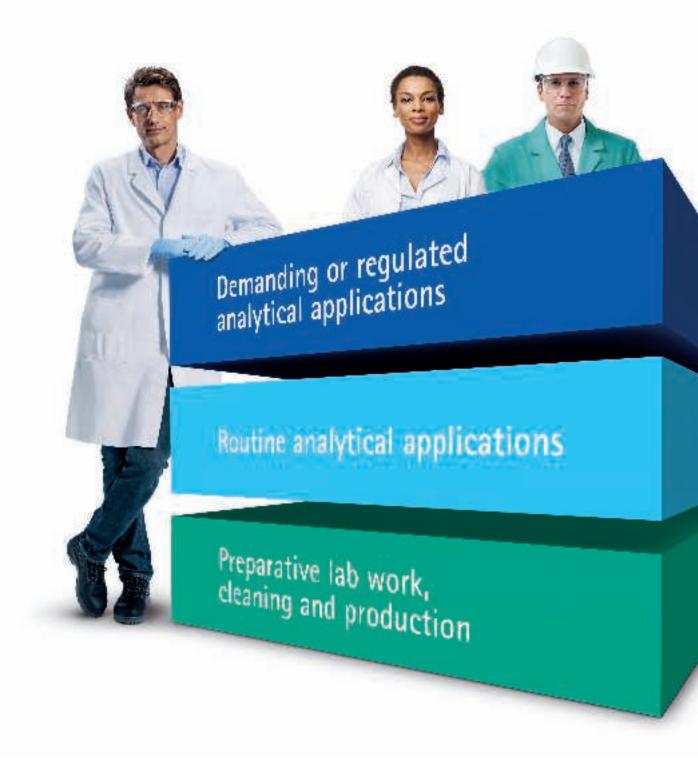


Your partner for world-class Inorganic Reagents and Solvents

At Merck, our vision is to unleash the potential of science for life. But we couldn't do it without you. Close partnerships with our customers have been at the heart of our progress throughout our long history. They have allowed us to clearly understand your challenges. To develop high-quality solutions that are tailored to your needs. And to constantly push the boundaries of innovation.

As your reliable partner and one-stop supplier, we offer a portfolio of more than 40,000 products, and serve you from 154 locations in 67 countries around the world. So whether in your lab, pilot plant or production facility, you'll have the most suitable products, packaging and documentation to conduct life science research more easily, efficiently and economically.

Discover how our world-class Inorganic Reagents and Solvents can empower your work.



Looking for the right reagent for your application? Just choose your grade

Life science research is a vast field. It can mean anything from complex analysis to routine lab work or production. Each poses unique demands, requires distinct solutions, and is governed by different regulations. When looking for products, you have to consider your application, your target and, of course, your budget.

To simplify your search, our extensive portfolio of Inorganic Reagents and Solvents is divided into three grades: EMSURE®, EMPARTA® and EMPLURA®. Each quality grade is offered in a variety of volumes, packaging materials, and with different documentation packages. Now, you won't have to search for the right solution for your application. All you have to do is choose.



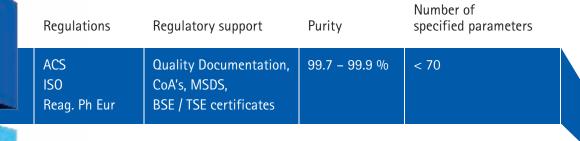


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ACS	CoA's	99.0 – 99.5 %	< 10
	MSDS		
	BSE / TSE certificates		

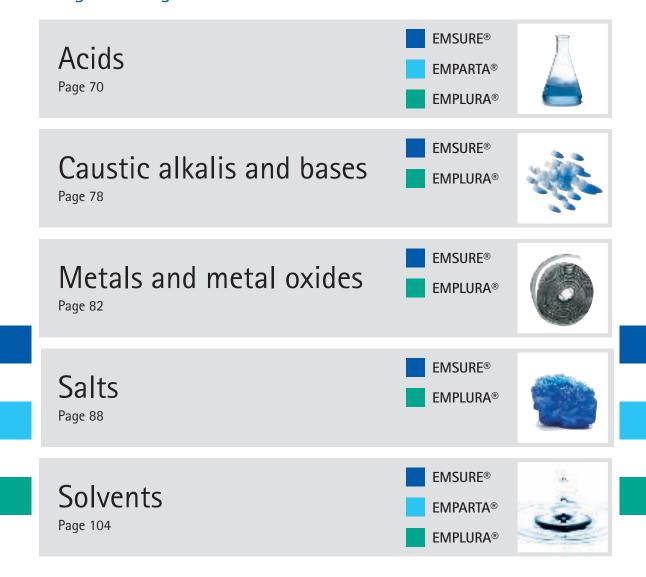
-	CoA's MSDS	99 %	4 – 5

Packaging and Safe Handling





Inorganic Reagents & Solvents



General Application Chemicals

Compliance and Documentation

Whether you manufacture products nationally or internationally, you need to comply with a host of regulations. It can be challenging to maintain an overview of requirements – especially when they change. This is where a capable partner can help.

Merck's Inorganic Reagents and Solvents are produced and tested according to multiple international guidelines. This means they can be used worldwide for almost all applications. It also allows our global customers to work with the same standard operating procedures (SOPs), and export to countries with different regulations.

By combining multi-standard compliance with comprehensive documentation, our products make your work both simpler and safer.



Regulatory environment

Merck's analytical reagents are available in different grades, which are specified in accordance with various international regulations.

American Chemical Society (ACS)

EMPARTA® and EMSURE® products are specified according to the monographs published in the "Reagent Chemicals" guidelines of the American Chemical Society (ACS). We follow the 10th and most recent edition of the guidelines, and regularly check for updates. Our in-depth approach to ACS specifications includes comparison with our own stringent guality control standards.

United States Pharmacopeia (USP)

The "Reagents" chapter of the U.S. Pharmacopeia and National Formulary defines the quality of reagents required for testing according to USP-NF. In most cases, the USP recommends to "use ACS reagent grade", which is described as a grade meeting the corresponding specifications of the current edition of "Reagent Chemicals" published by the ACS. Since EMPARTA® and EMSURE® products are ACS-compliant, they are also ideal for quality control according to USP-NF.

Reagents section of the European Pharmacopoeia (Reag. Ph Eur)

Currently in its 8th edition, the European Pharmacopoeia (Ph Eur) is published by the European Directorate for the Quality of Medicines & Health Care (EDQM), and defines requirements for the "qualitative and quantitative composition of medicines, the tests to be carried out on medicines and on substances and materials used in their production". It contains a detailed section describing reagents to be used for analysis in accordance with the European Pharmacopoeia. EMSURE® products fulfill these requirements, and bear the designation, "Reag. Ph Eur".

International Organization for Standardization (ISO)

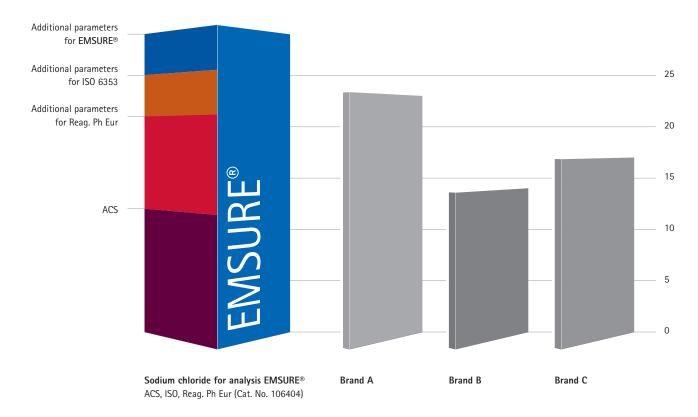
Besides pharmacopoeia regulations, the International Organization for Standardization (ISO) also sets guidelines for analytical reagents. Specifically, ISO 6353 defines the requirements for reagents used in analytical chemistry. All EMSURE® products with the designation "ISO" are compliant with ISO 6353.

Compliance and Documentation

Merck offers a choice of product grades to suit the regulatory environment you work in. EMPARTA® is specified according to ACS. EMSURE® specifications not only fulfill ACS, Reag. Ph Eur, and ISO guidelines – but exceed them. That's because we are regularly adding new parameters required by our customers. This is essential as it enables the use of new, more sensitive technologies.

The most parameters

The graphs below demonstrate the typical number of parameters specified for EMSURE® products versus those required by regulatory organizations (ACS, Reag. Ph Eur and ISO). Clearly, EMSURE® not only fulfills international guidelines, but surpasses them by far. Brand comparisons confirm the advantages of EMSURE® reagents. In this example, the number of specified parameters clearly demonstrates the superior quality of an EMSURE® product.





Pharmaceutical Analysis With suitable, specified reagents

Merck supplies several hundred Inorganic Reagents and Solvents for pharmaceutical analysis – the most extensive range offered by any manufacturer. Comprising solvents, acids, salts, caustics, bases, indicators and special reagents, our pharmacopoeia portfolio ensures that you work with the most suitable products for your particular needs and that they meet all quality guidelines.

For pharmaceutical analysis, you have the choice of two grades: EMSURE® or EMPARTA®. While both grades comply with ACS standards, EMSURE® products also fulfill the Reagents requirements of the European Pharmacopoeia.

Fulfill global requirements

Through compliance with these comprehensive global standards, our analytical reagents offer a new level of quality and reliability in pharmaceutical applications. Whether for research and development or routine quality control, they allow you to fulfill the fundamental prerequisites of your scientific work and successfully pass audits.

Ensure reliable analyses

Reagent quality is decisive in pharmaceutical analysis. The greater and more consistent the quality, the more reproducible the results, and the lower the need for repeat analyses. Due to their exceptional quality and purity, our analytical reagents provide you with greater accuracy, efficiency and economy from the start.

Soar with Merck's high standards

Our product quality not only complies with international regulations, but also fulfills the Merck Group's rigorous pharmaceutical guidelines – which are even more stringent for most products. Due to Merck's unique, superior quality standards and additional parameters, our reagents offer maximum purity and security.



= American Chemical Society

USP

= United States Pharmacopoeia (refers to ACS

Regulations

ACS (Reag. USP)

IS0

Reag. Ph Eur

► For more information see page 20

EMPARTA®

ACS (Reag. USP)

For more information see page 32

Specifications and Purity Our promise of exceptional quality

Merck's reagents and chemicals are renowned for their outstanding quality. We achieve and maintain this reputation through three important measures: validation, accreditation, and compliance with regulations. Every step in our supply chain is subject to the most stringent controls and fully documented to give you complete confidence in your analysis.

Purity

Decades of experience with highly pure chemicals combined with state-of-the-art production and filling plants ensure that what you order is what you receive. We only use high-quality raw materials and manufacture under strictly controlled conditions using Merck's advanced methodology. This results in outstanding chemical purity and extremely low limiting values, which makes our products the ideal choice for reliable qualitative and quantitative analyses.

Quality control

All our Inorganic Reagents and Solvents are tested and certified in our own state-of-the-art laboratories under the guidance of highly qualified specialists. Merck has quality control labs at every production site, which work closely together to ensure comparable test procedures and results. During testing, we always adhere to international standards and legal requirements, and integrate the latest developments in technology and methods.

So you can trust on Mercks analytical competence. EMPARTA® and EMPLURA® grade products are tested at one of our own labs close to its production site. EMSURE® grade products are quality controlled at our Merck KGaA, Darmstadt, Germany site.

Consistency

Due to their outstanding batch-to-batch consistency, each time you use Merck products, you can expect the same excellent quality. This not only ensures reproducible results, but also avoids the costs and complications of repeat analyses.

The graphs on the right demonstrate the superior batch-to-batch consistency of some of our products.



Specifications and Purity Our promise of exceptional quality

Unrivalled specifications

Our reagents and solvents often offer additional specifications beyond those required by international guidelines, such as ISO, ACS and Reag. Ph Eur. Many are measured for up to 70 parameters! Furthermore, thanks to our proven Quality Management System, we are able to continuously improve our specifications.

Application-optimized

The differences in our quality grades are clearly shown in their individual specifications. Regardless of the grade you choose, you will always receive a product of excellent quality that's perfectly suited to your application.

EMSURE® products combine maximum specifications with minimum impurities. Their Certificates of Analysis provide an extended impurity profile for each batch, and detailed batch values for each specification parameter. This avoids misinterpretation of results, and gives you greater control of your analysis, especially when developing new methods.

	Specifications	Purity	Number of specified parameters
EMSURE®	The most extensive specifications worldwide!	99.7 – 99.9 %	< 70
EMPARTA®	All ACS requirements	99.0 – 99.5 %	< 10
EMPLURA®	All basic parameters	99 %	4 - 5

Dedicated service

For us, quality encompasses more than product purity and consistency. It also means service that exceeds expectations. Whether you require regulatory support, application advice, or a specific product, our experienced team is always at hand to work closely with you and deliver swift, innovative solutions.



Certificate of Analysis

1.04933.0500 Potassium chloride for analysis ($\leq 0.005\%$ Br)

EMSURE® ACS.ISO, Reag. Ph.Eur.

Batch A0430533

Spec Value		With Value	With Values	
99.5 - 100.5	**	99 A	*	
99.0 - 193.5	57	99.8	15	
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prises lest		practical in		
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5.5 & 0		58		
pasces test		prisses (ec)		
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× 10000	(8)	5.0106	14	
51000g	9	< 0.1402	35	
polocycles (percelot		
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\$ 0.000	90	≤ 0.000	4	
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panceks.		اجليهمو		
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5.0000	38	2.0/305	15	
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	99.5 - 190.5 99.5 - 190.5 99.5 - 190.5 99.5 - 190.5 99.5 - 190.5 5	99.5 - 190.5 % 99.5 - 190.5 % process sect % 9 10.04 % 9 10.04 % 9 10.04 % 9 10.04 % 9 10.04 % 9 10.04 % 9 10.04 % 9 10.04 % 9 10.00	99.5 - 100.5	

Date of rational (DD:ANA.FEFT): (3.08.2012 Minimum shelf life (DD:ANA.FFFT): 30.08.2017

Co. responds to ACS, ISO, Reag, Ph. Bur

Dr.Mathias Chin.

Appenditure or new state of the country

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Merck KGoA, Frankfurter Straße 250, 64293 Darmstadt (Germany): +49 6151 72-0 END Millipere Corporation - A division of Merck KCoA, Darmstadt, Germany 290 Contour Rough Salmet, NA 61621 USA, Phone (781) 688 6000 247 25-08

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Safety and Packaging Protecting people, products and the planet

Besides offering premium chemicals and reagents, Merck has invested decades into developing the most advanced packaging concepts in the field of chemistry. Our innovative packaging and withdrawal systems are precisely tailored to the contents, and based on sustainable principles. So they not only protect your personnel and products, but also the environment.



Robust, PE-coated Safebreak bottles for acids

- Safe handling of acids
- Meet all safety requirements
- All advantages of glass bottles
- Easy, eco-friendly disposal (with glass)

Light, unbreakable HDPE bottles for reagents

- Safe and unbreakable
- High pressure stability
- Light, easy to carry
- Integrated handle
- Environmentally friendly, easy to recycle

Environmentally friendly, returnable stainless steel drums for solvents

- Safe, easy and convenient handling of solvents
- Ecological, returnable container
- Cost effective solution
- Suitable withdrawal systems available



Development and testing

Merck's internal packaging department is exclusively responsible for testing, developing and approving packaging materials. Our package testing facility is accredited by the German Federal Institute for Materials Research and Testing (BAM – Bundesanstalt für Materialforschung und –prüfung), the authority responsible for the packaging of dangerous goods.

Grades and options

All our products are delivered in sophisticated and suitable packaging. The choice of packaging, however, varies from grade to grade. EMSURE® products are available in a large variety of packaging sizes and materials to suit your particular application and requirements. EMPARTA® and EMPLURA® products are offered in standard pack sizes, for example, 1 kg or 25 kg for solids, and 2.5 l, 4 l, or 25 l for liquids.

Packaging advantages

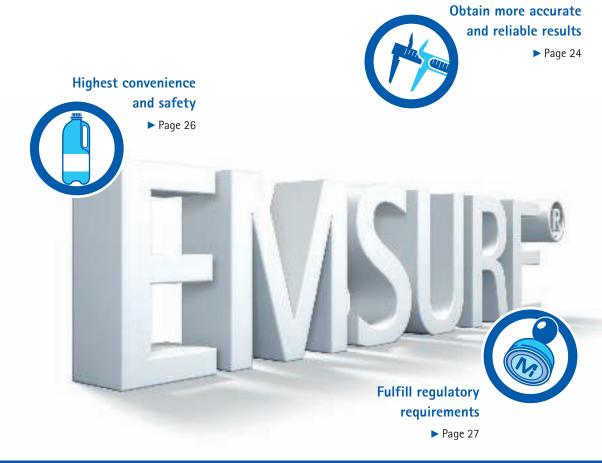
- Packaging is always compatible with the product
- Safe and convenient handling, storage and transportation
- Optimal protection of chemicals and reagents from contamination
- Application-oriented packaging
- Wide choice of packaging materials and size:

► For more details about our packaging, please see "Packaging and Safe Handling" on page 42

$EMSURE^{\scriptsize{\circledR}} \text{ for analysis ACS, ISO, Reag. Ph Eur}$

Premium grade – for demanding or regulated analytical applications





EMSURE®



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Comprehensive documentation

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EMSURE® Premium grade





Extended impurity profile - Superior purity and clarity

New analytical methods have lower detection limits and higher sensitivity. Hence, reagents of greater purity are required. EMSURE® products are the perfect choice. They not only offer superior quality, but also more extensive product information to prepare you for any analytical challenge.

All EMSURE® products are made from high-quality raw materials in our state-of-the-art production facilities, then tested for up to 70 parameters at our stringent quality control labs in Darmstadt, Germany. This results in outstanding chemical purity and extremely low limiting values.

Every EMSURE® product comes with a comprehensive Certificate of Analysis, which includes an extended impurity profile for each batch. This gives you absolute analytical security, and prevents misinterpretation of results caused by impurities.

Acetic acid (glacial) 100 % anhydrous for analysis EMSURE® ACS, ISO, Reag. Ph Eur



Additional parameters for $EMSURE^{\circledR}$

Additional parameters for ISO 6353

Additional parameters for Reag. Ph Eur

ACS

- Most extensive specifications worldwide
 - Tested for up to 70 parameters
 - Extraordinary purity
 - Very low limiting values
- Greater accuracy and control of analyses
- Optimized for highly critical and demanding analyses
- Ideal for method development
- No interference or contamination due to unknown impurities





EMSURE® Premium grade

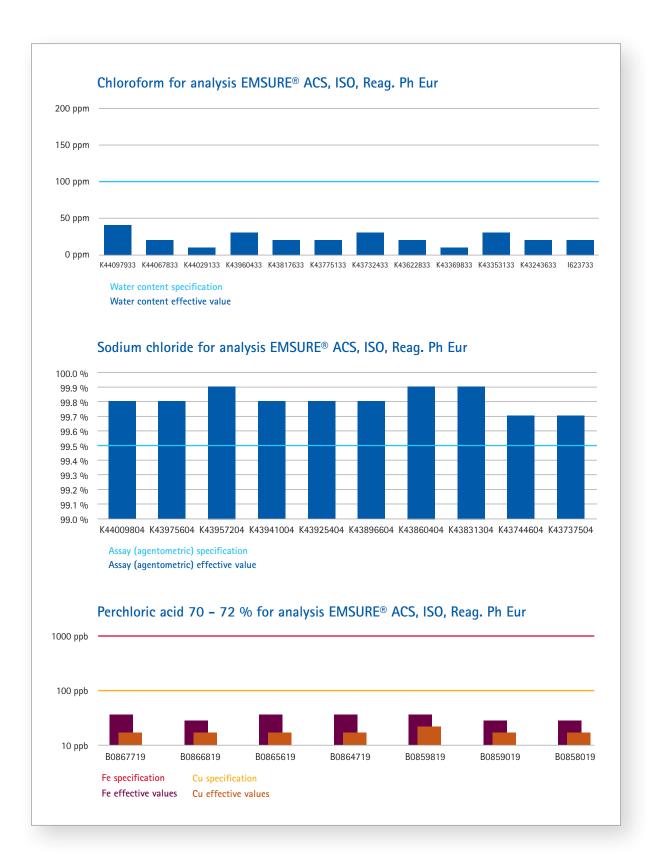


Accuracy and reliability - Absolute trust - every time

Thanks to their outstanding batch-to-batch consistency, each time you use EMSURE® products, you can expect the same excellent quality. This not only ensures reproducible results, but also reduces your analytical costs. Now, you can avoid repeat analyses, and won't need to stock up on specific product batches.

- Unmatched batch-to-batch consistency
- Reliable and reproducible results
- Lower analytical costs
- No repeat analyses





EMSURE® Premium grade



Convenience and safety - Packed with innovation

EMSURE® products offer top quality both inside and out. Through continuous innovation, we have developed various packaging and withdrawal systems, which are precisely tailored to the contents. Our solutions offer secure and convenient usage for lab personnel, while being safer for the planet.

- Packaging is always compatible with the product
- Safe and convenient handling, storage and transportation
- Optimal protection of chemicals and reagents from contamination
- Application-oriented packaging
- Wide choice of packaging materials and sizes



Safebreak bottle for EMSURE® acids and unbreakable HDPE bottles for acids, solvents and bases.



Regulatory compliance - Specified beyond standards

EMSURE® specifications not only fulfill ACS, Reag. Ph Eur and ISO guidelines – but surpass them. That's because we are regularly adding new parameters required by our customers. As a result, EMSURE® products can be used around the world for almost all applications, including pharmacopoeia analysis. Due to their extensive specifications, EMSURE® products are also suitable for use with the latest technologies, such as detecting concentrations of metals via atomic absorption spectroscopy (AAS).

- Compliance with ACS, ISO and / or Reag. Ph Eur (Please see "Compliance and Documentation")
- Most products' specifications exceed international standards
- Suitable for pharmacopoeia analysis
- Can be used internationally





Global availability - One excellent quality - worldwide

Whenever or wherever you require EMSURE® Reagents and Solvents, we serve you the same excellent quality from 154 locations in 67 countries around the world. This, combined with multi-standard compliance, means that our multinational customers can work with the same standard operating procedures (SOPs), and export to countries with different regulations.

- Identical quality worldwide
- Comparable results
- Work with one global SOP
- Suitable for global export

EMSURE® Premium grade



Comprehensive documentation - All the documents you need - whenever you need them

We provide extensive documentation for EMSURE® products to further support your work. All standard documents are available 24/7 on www.merckmillipore.com. Simply search for documents using the product number, CAS number or keywords.

Standard EMSURE® documents include:

- Material Safety Data Sheet (MSDS)
- Product specifications
- Batch-specific Certificate of Analysis (CoA)
- Physicochemical information

EMSURE® Quality Documentation - More insights. More efficiency. More expertise.

For even greater security and simplicity in your analyses and audits, we also offer EMSURE® Quality Documentation. The service includes comprehensive product information and up-to-date certificates, which can be downloaded in one file, and stored in your lab system or printed when required. Now, you won't need to search for individual documents on various sources, or to perform time-consuming lab filing. Just one click and you have all the information you need from one source. EMSURE® Quality Documentation will be available for around 50 products in two versions: Basic and Advanced.



EMSURE® Premium grade



EMSURE® Quality Documentation Your advantages



No matter which package you choose, EMSURE® Quality Documentation will add considerable simplicity and security to your analyses and audits.

- Streamline lab work
- Save time and costs
- Ensure comparability of results
- Certainty during use of product
- Accuracy regarding impurities
- Confidence in analysis and production

Learn more about your advantages, and obtain your copy of EMSURE® Quality Documentation on:

www.merckmillipore.com/emsure/documentation



Quality Documentation Basic

Available free of charge, the "Basic" version provides all standard registration and product-specific characteristics in a clear and concise format. Simply download the package from the Merck website, and obtain essential, up-to-date information about the reagents you use.

Package includes:

- Synonyms / nomenclature
- Chemical formula
- Material Safety Data Sheet
- ISO certificates of Merck production sites
- REACH registration statements
- Chemical inventories statement
- Product specifications
- Country of origin
- Risk statements e.g. BSE / TSE information

Quality Documentation "Advanced"

The "Advanced" version provides additional, valuable insights into Merck's stringent production and testing procedures, including details about costly tests we perform to give you the utmost security in your lab work. The information is continuously revised and upgraded according to new methods and regulations.

The documentation is available as a PDF file, which can be saved directly in your lab system. The complete package can be ordered and it includes free updates for 5 years. Simply sign the confidentiality agreement, download the document, and enjoy unlimited access to the most current information.

Package includes:

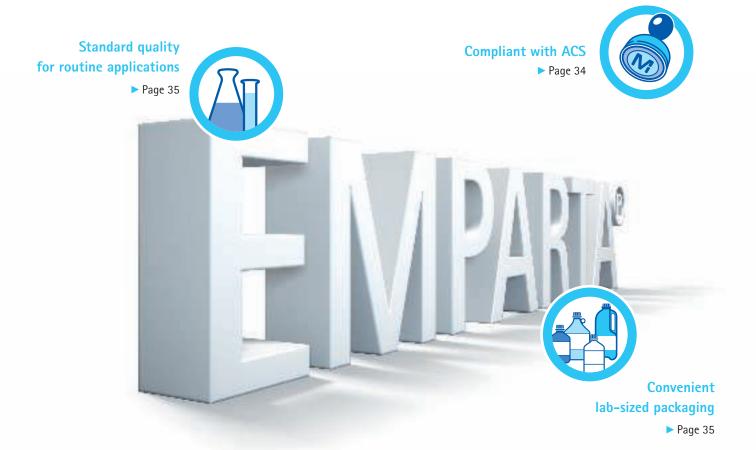
- All documents of the "Basic" package
- Production flow charts
- Test monographs
- RoHS certificate
- Batch analysis comparison
- Additional test certificates e.g. allergens, aflatoxins, residual solvents
- GMO information
- Non-nano particle information



$\begin{center} \textbf{EMPARTA}^{\mathbb{B}} & \textbf{for analysis ACS} \end{center}$

Standard grade – for routine analytical applications





EMPARTA®

Reliable results

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EMPARTA® Standard grade



Compliant with ACS

The quality of EMPARTA® Inorganic Reagents and Solvents is tested according to the specifications of the monographs published in the "Reagent Chemicals" guidelines of the American Chemical Society (ACS). We follow the 10th and most recent edition of the guidelines, and regularly check for updates. Our in-depth approach to ACS specifications includes comparison with our own stringent quality control standards.

Reagents for analysis according to USP

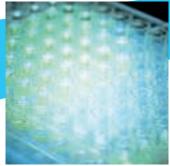
The "Reagents" chapter of the U.S. Pharmacopeia and National Formulary defines the quality of reagents required for testing according to USP-NF. In most cases, the USP recommends to "use ACS reagent grade", which is described as a grade meeting the corresponding specifications of the current edition of "Reagent Chemicals" published by the ACS. Since EMPARTA® products are fully compliant with ACS guidelines, they are ideal for quality control according to USP-NF.















Standard quality for routine lab applications

EMPARTA® grade products offer just the parameters you really need – including all those required by the ACS. Hence, they are the perfect choice for reliable quality control and routine analytical applications in less regulated industries.



Reliable results

EMPARTA® Inorganic Reagents and Solvents feature a high analytical purity of 99.0 – 99.5 %. Thanks to our sophisticated production chain, particulate impurities and cross-contamination from other products are completely ruled out.



Efficient and cost-effective solution

From raw materials to specifications, packaging and documentation, every aspect of EMPARTA® products is designed to make your analytical lab applications as cost-effective as possible – without sacrificing quality.



Convenient lab-sized packaging

EMPARTA® Inorganic Reagents and Solvents typically come in HDPE or amber glass bottles, which are the perfect size for working in the lab. Our tailor-made packaging offers multiple safety features. Learn about them in the chapter >> "Packaging and Safe Handling" (page 42).

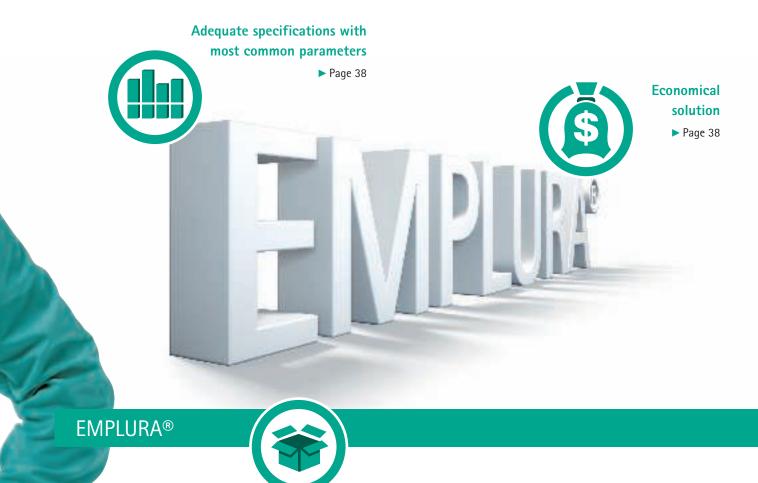
EMPLURA®

Basic grade - for preparative lab work, cleaning and production



Suitable for numerous basic applications

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Completely flexible pack sizes

► Page 38

Greener chemical alternatives

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EMPLURA® Basic grade



Suitable for numerous basic applications

The EMPLURA® range includes a broad selection of the most important Inorganic Reagents and Solvents. So you will easily find the most suitable solutions for numerous basic applications, such as preparative lab work, cleaning or standard production processes.



Economical solution

Why pay for high purity when your application only requires basic quality? EMPLURA® is your economical answer. It gives you reliable results at a reasonable price.



Completely flexible pack sizes

Our standard packaging options vary from 1 I glass bottles to 190 I drums. However, we are completely flexible and can offer even larger quantities, such as intermediate bulk containers (IBCs) or tank containers, on request.



Adequate specifications

EMPLURA® grade products are mainly tested for preparative lab applications and standard production processes. Hence, we only monitor the basic parameters that are important in these applications, such as purity, identity, density, evaporation residue and water content. In most cases, the purity exceeds 98 %.















Principles of green chemistry

- Prevent waste
- Use renewable raw materials
- Minimize energy and resource requirements of chemical processes
- Create safer, less toxic chemicals
- Develop less hazardous synthetic methods
- Design chemicals that do not persist in air and water



Greener chemical alternatives

The products we create help our customers improve people's lives every day, but we recognize that every product we make also has an environmental impact. That's why we are committed to continually improving the sustainability performance of our products and adopting a greener chemical process. Our latest advances in green chemistry include: bioethanol, 2-methyl tetrahydrofuran, cyclopentyl methyl ether and ethyl lactate.

EMPLURA® Basic grade

Innovative greener solvent alternatives



Bioethanol

Produced from grain or sugar cane, we use bioethanol in place of synthetic ethanol. High quality, an affordable price, and ready availability make Merck's bioethanol an obvious choice for a sustainable future.

2-Methyl tetrahydrofuran (Methyl THF)

2-Methyl tetrahydrofuran is a greener alternative to dichloromethane and tetrahydrofuran. It is derived from renewable resources such as corncobs and sugarcane bagasse.

Bioethanol

- Produced from grain or sugar cane, a renewable source
- Lower toxicity for users
- Production methods safer for the environment
- Consistently high quality at an affordable price
- Reliable availability (supply risk uncoupled from petrochemical production)
- Offered in various grades: EMPLURA®, EMPARTA®, EMSURE®



Methyl THF

- Produced from renewable sources
- Reliable availability (supply risk uncoupled from petrochemical production)
- Less solvent needed due to more efficient extraction and higher reaction yields
- Lower volatility, higher flash point and easy drying increase user safety
- Limited miscibility in water reduces waste stream
- Low heat vaporization saves energy and reduces solvent loss

Cyclopentyl methyl ether (CPME)

Cyclopentyl methyl ether is a greener substitute for tetrahydrofuran, tert-butyl methyl ether, 1,4 dioxane and other ether solvents.

Ethyl lactate

Ethyl lactate is a safer and more sustainable alternative to ethyl acetate and acetone. It is an ester of natural L-lactic acid, which is produced by fermentation of sugar.

CPME

- Resistance to peroxide formation improves laboratory safety
- Economical, 100 % atomic catalytic reaction with no waste and high recovery rate
- One-step reaction saves energy and reduces waste water
- More stable than tetrahydrofuran
- Safer for users due to easy drying of solvent
- More hydrophobic solvent increases yields and selectivity
- Limited miscibility in water reduces waste stream
- Reduced reaction times due to higher boiling point than tetrahydrofuran
- Low heat vaporization saves energy and reduces solvent loss

Ethyl lactate

- Increased user safety due to less toxicity (non-carcinogenic)
- No waste due to 100 % biodegradability
- Easy to recycle
- Non-corrosive
- Environmentally friendly as non-ozone depleting



Packaging and Safe Handling Perfected to protect

For us, packaging is not just an empty vessel for products. It is a fundamental aspect of safety, sustainability and reliability. Hence, we pay as much attention to the quality of our outer materials as to their inner contents. This commitment has led to an exceptional range of packaging options that ensure safe transport, storage and handling, while minimizing environmental impact.



For more information about stainless steel drums see page 63



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Packaging and Safe Handling Perfected to protect

Every detail - optimized and tested

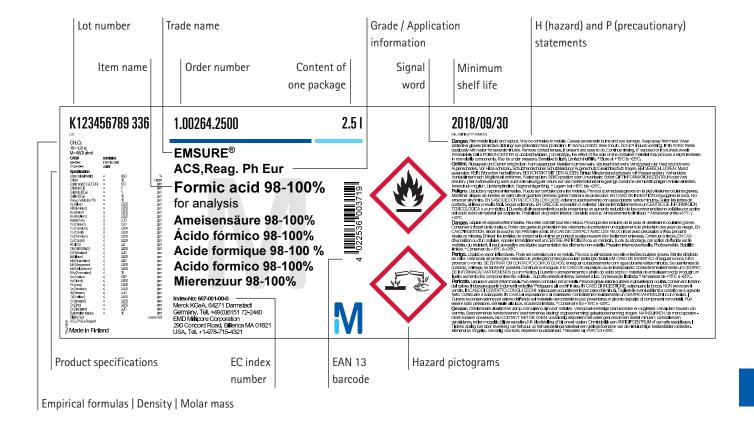
All our packing materials are tailored to their contents and meticulously tested for quality and permeability to preserve the purity of our products. Not only the container, but also the closure, transportation box and withdrawal systems (for solvents) are optimized as a complete packaging concept. Thanks to our high standards, our package testing facility is accredited by the German Institute for Materials Research and Testing (Bundesanstalt für Materialforschung und –prüfung), the authority responsible for the packaging of dangerous goods.

Your advantages

- Application-oriented packaging materials and volumes
- Convenient, safe and contamination-free handling
- Maximum safety through an extensive portfolio of accessories
- Ecological and economical use of returnable containers where suitable
- Individual user installation or other customized solutions possible



Product label



Labels that last

Our labels provide essential information for our customers. So their durability is a top priority. We use varnished paper labels that are resistant to most chemicals, or apply PE labels wherever necessary. All labels are resistant to abrasion, forgery proof, and adhered with glue that is specially developed for use in the chemicals sector. Since June 1, 2015, all our substances and mixtures feature GHS labels.

GHS: The global label

In the past, inconsistent evaluation criteria in different countries led to identical chemicals being classified as poisonous, harmful to health, or even not harmful. This resulted in conflicting levels of protection for employees, consumers and the environment. Consequently, the United Nations (UN) initiated an effort to create a globally uniform safety standard for chemicals.

First published in the UN's "Purple Book" in December 2003, the Globally Harmonized System (GHS) describes standardized classification and labeling criteria for chemicals, including hazard symbols and safety data sheets. Since its introduction, the GHS has been progressively adopted in different countries. June 1, 2015 was a significant implementation deadline in both the EU and the US. Since all Merck reagents and solvents carry GHS labels, our customers can work safely and in compliance with these regulations.

Packaging overview From bottles to tanks











Glass bottles for acids, bases and solvents



- Safe and convenient handling, storage and transportation
- Special shape of the opening allows optimum pouring
- Secure S40 screw cap with tamperproof seal
- Premium amber blank glass remains inert even to aggressive chemicals
- High pressure resistance
- Pulp packaging for safe transport of glass bottles Strong yet light in weight, our molded fiber trays ensure that chemical bottles are optimally protected during transportation and storage. All our pulp packaging is made from recyclable materials, so it also protects the environment.











HDPE bottles for acids, bases and solvents



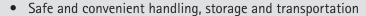




- Convenient handling and dosage with integrated handle for 2.5 and 5 l bottles
- Narrow base for efficient use of lab space
- Low tare weight facilitates handling and reduces transport costs
- Secure S40 screw cap with tamperproof seal
- High pressure resistance (particularly for 2.5 I bottle with special base geometry)



Aluminum bottles for solvents



- Optimum material characteristics avoid interactions with solvents
- Secure S40 screw cap with tamperproof seal
- Low tare weight facilitates handling and reduces transport costs
- No risk of breakage



Stainless steel drums for solvents

- Optimum material characteristics avoid interactions with solvents
- Returnable drums reduce costs and environmental waste
- Compatible with a variety of withdrawal systems and level sensors
- Optimum emptying characteristics
- Stackable for efficient use of space





Packaging overview From bottles to tanks





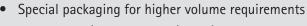
180 / 190 I





Other drums and containers





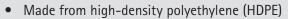


- Steel drums (10, 25 or 180 / 190 l) with option of PE inliner and special coating depending on contents
- PE drums (up to 200 l)
- PE canisters
- 1,000 l intermediate bulk containers (IBCs)
- Larger sizes (up to tank containers or tank trucks) also available

Exemplary packaging. Offering depends on suitability with content.



HDPE bottles for caustic alkalis and salts



- Wide opening for easy withdrawal
- Square base allows efficient use of storage space in labs and during transportation
- Compatible with S38 to S85 closure systems







12 kg

Large packaging for caustic alkalis and salts

- Special packaging for higher volume requirements
- PE inliner is produced in clean room conditions to protect contents
- Corrugated board boxes are glued in a water-resistant manner acc. to DIN 53133 to remain stable even under damp conditions
- Robust construction of corrugated board boxes allows stacking





Quantity Guide Safety comes in many sizes

Merck's extensive variety of packaging types and sizes is unrivaled in the industry. With volumes from 0.05 I to 20,000 I, and materials from glass and HDPE to metal and stainless steel, we can easily cater to your individual requirements. The guide below will help you select the size and material that best suits your application. Whichever you choose, extraordinary safety comes standard.

Metal drums

PE drums, canisters etc.

Bottles







Pack sizes

0.5 | - 5 |

10 I - 190 I

Annual consumptior

0.5 I - 100 I

100 | - 1,000 |

Standard packaging

Standard packaging range one-way packaging

Stainless steel drums optional returnable packaging

- Advantage: no rinsing / cleaning / disposing
- Return unrinsed with original labels and tightly closed

Intermediate bulk containers (IBC)



Stainless steel drums



190 l – 20,000 l

> 1,000 l

- Customized products and containers
- Individual processes with rental agreements

Amber glass bottles for acids, bases and solvents

1.09634.2500

2-Propanol

ropanol-2

MISURE* ACS, ISO, Reag, Ph Eur

12.10.14

Pack sizes: 0.5 I to 4 I

Specially developed S40 thread

withstands higher contact pressure and ensures tighter seals

Specially formed, sharp thread lip for safe drip free pouring

Specially treated high quality glass with extreme durability due to constant

wall thickness for highest safety and product quality

Pour ring for safe and ergonomic withdraw

New tension-free manufacturing technology: "bottle out of one drop" to avoid any predetermined breaking point



New S40 screw cap

Tamper proof closure will remain as ring on the bottle neck

_ Long shelf life of contents

due to bottle's impermeability to air and water vapor as well as protection against light

Unique, clear and complete labeling with product specifications and all relevant hazard declarations



for safe stand with low point of gravity

Technical data

Material:

Moulded amber glass, hydrolytic class 3

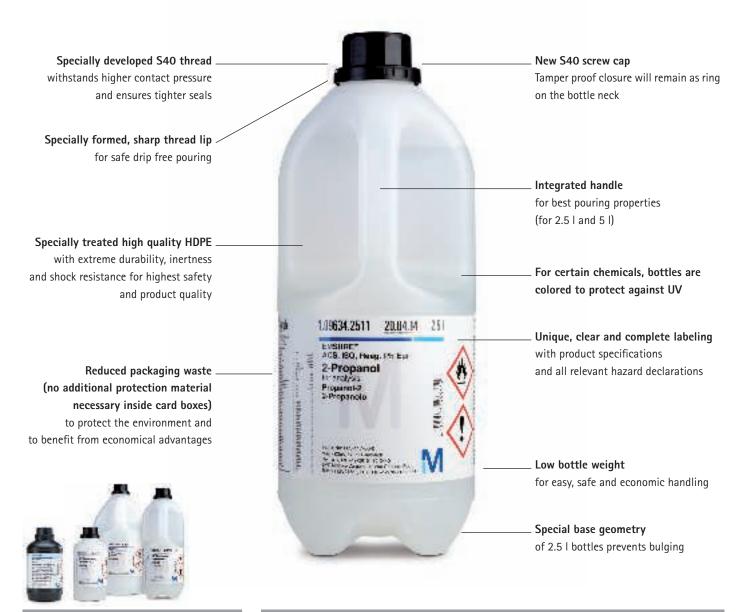
Available packaging size: 0.5 l, 1 l, 2.5 l and 4 l

Height, diameter and net weight (bottle size):
180 mm, ø 83 mm, approx. 450 g (0.5 l)
222 mm, ø 101 mm, approx. 600 g (1 l)
258 mm, ø 151 mm, approx. 1140 g (2.5 l)
350 mm, ø 162 mm, approx. 1525 g (4 l)

Safety accessories	
Adapter with integrated level sensor for Merck bottles with S40 thread (supply)	9.67100.2001
Adapter with integrated level sensor for Merck bottles with S40 thread (solvent disposal)	9.67100.2002
Bottle opening key S40 / S28	1.08801.0001
Display for level sensor	9.67100.2004
Label set for self-labeling lab-mixtures according to GHS, DIN EN ISO & GLP	1.00801.0001
Pouring aid for 1 and 2.5 glass bottles with S40 thread (for single-use)	1.02547.0005
Safety carrier for bottles up to 2.5 l	9.20078.0001
Safety carrier for 4 l bottles	1.40140.0001
Withdrawal system for solvents with manual pressure build-up in S40 bottles	1.78178.0001

HDPE bottle for liquids for acids, bases and solvents

Pack sizes: 0.25 I to 5 I



Technical data
Material: HD-PE
Available packaging size: 0.25 , 0.5 , 1 , 2.5 and 5
Height, diameter and net weight (bottle size): 206 mm, ø 101 mm, approx. 66 g (1 l) 322 mm, ø 125 mm, approx. 145 g (2.5 l) 330 mm, ø 178 mm, approx. 335 g (5 l)

Adapter with integrated level sensor for Merck bottles with S40 thread (supply)	9.67100.2001
Adapter with integrated level sensor for Merck bottles with S40 thread (solvent disposal)	9.67100.2002
Bottle opening key S40 / S28	1.08801.0001
Display for level sensor	9.67100.2004
Label set for self-labeling lab-mixtures according to GHS, DIN EN ISO & GLP	1.00801.0001
Safety stand for 2.5 HDPE bottles	9.67213.0001
Withdrawal system for solvents with manual pressure build-up in S40 bottles	1.78178.0001

Safety accessories for bottles

To further protect you during daily lab work, Merck offers several safety accessories specially designed for Merck bottles.

Withdrawal system for solvents (1.78178.0001)

- Manual pump system for safe and easy withdrawal of solvents (!) from glass bottles
- Specially designed to fit bottles with S40 neck
- Conductive dip tube (included) can be easily adjusted to the size of the bottle
- Conductive dip tubes are also available separately in packs of 5 (1.78179.0001)
- Grounding cable can be easily connected to avoid the risks of static electricity
- Withdrawal system can also be used for 2.5 I HDPE bottles when combined with the safety stand (9.67213.0001)







Bottle key (1.08801.0001)

- Convenient opening and closing of bottles with S40 and S28 screw caps
- Perfectly tailored to Merck bottles
- Maximum safety when working with hazardous liquids

Safety carrier for glass bottles up to 2.5 | (9.20078.0001) and up to 4 | (1.40140.0001)

- Secure transport of broken glass bottles and contents
- High-quality PE foam buffer ensures optimal protection
- Additional time for disposal due to chemical resistant materials
- Robust material avoids risk of cuts by glass splinters
- Leak-proof top cover prevents exposure to liquids and vapors
- Stable, broad handle for convenient handling





Label set acc. to GHS, DIN EN ISO and GLP (1.00801.0001)

- Comprehensive label compliant with GHS, DIN EN ISO and GLP standards
- Complete safety information at a glance with adhesive pictograms and signal words
- Non-permanent adhesive for easy, residue-free removal
- Robust plastic label, resistant to chemicals



Pouring aid for 1 I and 2.5 I glass bottles with S40 thread for single-use (1.02547.0005)

- Can be clipped on the bottle neck
- Convenient handling of 1 I and 2.5 I glass bottles
- Suitable for all liquids like acids, bases and solvents
- Is only for single-use and is disposed of with the bottle (1.78178.0001)

Adapter with integrated level sensor for Merck bottles with S40 thread for solvent supply (9.67100.2001) and for solvent disposal (9.67100.2002)

- Suitable for solvents (!) in all S40 bottles
- The level sensor is pre-assembled in a S40 screw cap
- Equipped with a clamping screw, the sensor can be adjusted to several bottle sizes or also to the desired level
- Needs to be connected to an alarm display for optical and acoustic signalling (9.67100.2004)



Specials for acids

Safebreak bottle for acids – Just in case

The only problem with glass

As containers for many types of reagents, glass bottles offer numerous advantages. They are inert to most chemicals, highly impermeable, easy to sterilize, and reusable. There's just one problem: glass breaks. Depending on the contents, this could pose serious health risks for lab personnel.

Problem solved

Fortunately, Merck has developed an effective solution: the Safebreak bottle. This computer-designed glass bottle is coated with polyethylene (PE), and can withstand considerable impact force. But should the bottle break, all liquid acid (!) and glass splinters are reliably contained within the PE coating, thereby protecting users from cuts or exposure to harmful chemicals.

Additional protective features

Every Safebreak bottle is fitted with a S40 screw cap made of polypropylene that has an integrated PTFE component. Even after frequent opening and closing, the cap keeps the bottle absolutely airtight so that no liquid or vapor can escape. Our Safebreak bottle also protects the planet. It can be reused and ecologically disposed of, just as conventional glass. During incineration, the PE is burnt off without affecting the environment.

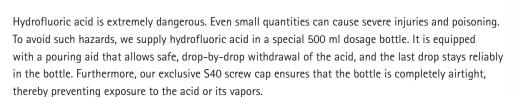


- Can withstand considerable impact force
- Should breakage occur, liquid acid and glass splinters are reliably contained
- Meets all safety requirements
- Maintains high quality of contents
- Can be incorporated in all logistic systems
- Can be reused and ecologically disposed of
- S40 screw cap prevents exposure to liquid or vapors





HDPE dosage bottle for hydrofluoric acid



- 500 ml bottle with a pouring aid specially designed for hydrofluoric acid
- Allows drop-by-drop withdrawal, and last drop stays reliably in the bottle
- S40 screw cap keeps bottle completely airtight





SafetyCap for reagents that build pressure

Certain reagents, such as sodium hypochlorite solution or hydrogen peroxide, are capable of generating excess pressure through chemical reactions. To help avoid contamination, Merck supplies all such reagents in bottles fitted with the SafetyCap.

This innovative cap has a valve that allows excess gas to be released, hence preventing the build-up of pressure. It is also absolutely leak-proof – even if the bottle is tipped. Furthermore, the PTFE membrane incorporated in the SafetyCap allows neither gas nor liquid to enter the bottle, thus protecting the contents from contamination. For additional safety, all bottles with such reagents are packed in PE bags.

- Allows gas to be released, thereby reducing internal pressure
- Absolutely leak-proof, protects users and the environment from contamination
- Prevents gas and liquid from entering bottle, protects contents from contamination



HDPE bottle for solids

Pack sizes: 0.1 kg to 5 kg



Material: HD-P				
Available packa	ging size: 0.1 kg to 5 kg	(volume dependent or	bulk density of the pro	oduct)
Volume	Height	Width	Depth	Net weight
0.25 l	111.5 mm	59 mm	59 mm	26 g
0.45 l	142 mm	70.5 mm	70.5 mm	50 g
0.75 l	142 mm	91 mm	91 mm	min. 49 g
1.10 l	176 mm	90 mm	90 mm	min. 55 g
1.25 l	207 mm	90 mm	90 mm	min. 65 g
1.80 l	170.5 mm	121 mm	121 mm	min. 103 g
2.50	219 mm	121 mm	121 mm	min. 103 g
6.00 l	281 mm	180 mm	180 mm	min. 237 g

Safety accessories Wire carrier for wide-necked PE bottles (4 | to 10 | volume) 9.79490.0001

Corrugated board box with PE inliner

Pack sizes: 25 kg and 50 kg



Technical da	ta			
Material: Corrugat	ted cardboard, PE bag			
Available packagir	ng size: 25 kg and 50 kg (volu	me dependent on bulk densi	ry of the product)	
Volume	Height	Width	Depth	
26 l	310 mm	370 mm	275 mm	
36 l	420 mm	370 mm	275 mm	
40 I	330 mm	379 mm	379 mm	
44 l	500 mm	370 mm	275 mm	
50 l	413 mm	374 mm	374 mm	
57 l	640 mm	370 mm	275 mm	
60 I	488 mm	374 mm	374 mm	
80 I	648 mm	369 mm	369 mm	

Aluminum bottle for solvents

Pack size: 5 l



Technical data	
Material: Aluminum	
Available packaging size: 51	
Height, diameter and net weig 298 mm, ø 175 mm, approx. 28	

Safety accessories	
Adapter with integrated level sensor for Merck bottles with S40 thread (supply)	9.67100.2001
Adapter with integrated level sensor for Merck bottles with S40 thread (solvent disposal)	9.67100.2002
Bottle opening key S40 / S28	1.08801.0001
Display for level sensor	9.67100.2004
Label set for self-labeling lab-mixtures according to GHS, DIN EN ISO & GLP	1.00801.0001

PE canisters & Fassetts® for acids and bases

Pack sizes: 5 l, 10 l and 25 l



Technical data					
	Canister		Fassett®		
Parameter	5 l	25 l	25 l		
Height	24.1 cm	48.8 cm	50 cm		
Width	16.5 cm	24.2 cm	28.5 cm		
Depth	19.5 cm	29.5 cm	32.9 cm		
Volume	5.6	27 l	30		
Filling quantity	5 l	25 l	25 l		
Weight (empty)	0.28 kg	1.25 kg	1.5 kg		
Number per pallet	72 (4 / cardboard)	11	8		
Openings	S 60 x 6	KS 60 x 6	CCS 60 x 6		
Material	PE	PE	PE		

Safety accessories	
Container key for opening containers with KS 60 x 6 screw cap	1.08804.0001

Steel drum and combi drum for solvents and acids

Pack sizes: 10 I to 180 I



Technical data					
Parameter	10	25	25 I with PE	180 l	180 I with PE
Height	34 cm	52 cm	52 cm	88 cm	88.5 cm
Diameter	24.5 cm	29 cm	29 cm	59.5 cm	60 cm
Volume	13.5 l	28	28	216.5	203 l
Filling quantity	10 l	25 l	25 l	180 l	180 l
Weight (empty)	1.8 kg	3.6 kg	3.4 kg	21.3 kg	21.5 kg
Number per pallet	13	11	11	2	2
Openings	2" decentrally located	2" centrally and 3/4" decentrally located	S56 x 4 (PP)	2" centrally and 3/4" decentrally located (steel, galvanized)	2" with 3/4" (PP)
Material	steel	steel	steel with PE	steel	steel with PE

Stainless steel drum for solvents

Pack sizes: 10 l to 190 l



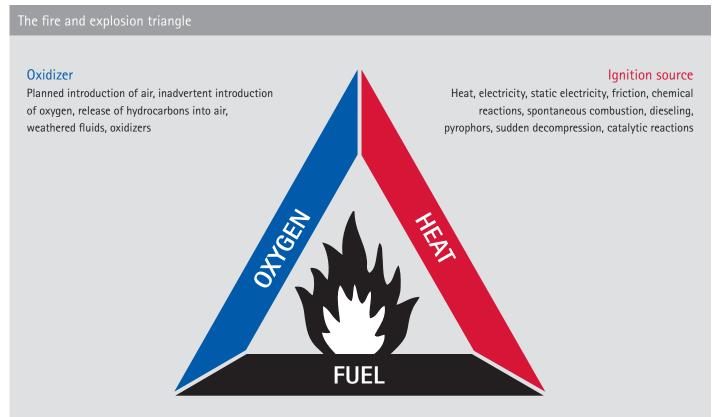
Technical data				
Parameter	10	30	190 l	
Height	35 cm	52 cm	88 cm	
Diameter	24 cm	29 cm	59.5 cm	
Volume	13	28	215	
Filling quantity	10 l	25	190 l	
Weight (empty)	1.9 kg	3.8 kg	18 kg	
Number per pallet	15	11	2	
Openings	2" centrally and 3/4" decentrally located			
Material	stainless steel 1.4301			

Important information for safety and returnable system

If flammable liquids (e.g. solvents) are to be used, the container (10 l or more) must be properly earthed according to valid safety regulations to avoid the risk of explosion and fire. Appropriate measures must be taken to discharge static electricity.

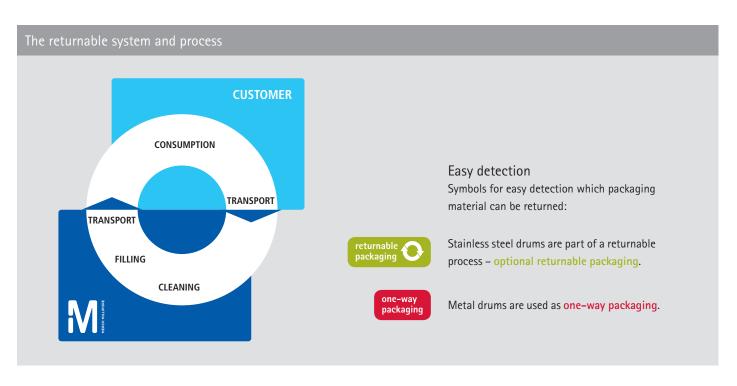
- General warnings and safety instructions must be observed.
- All components (e.g. container and withdrawal system) must be grounded separately in accordance with the applicable safety regulations.
- Grounding clamps must have metallic contact with both the container and the withdrawal system, and a safe ground connection.
- The grounding of the container and the grounding of the withdrawal system must be installed before opening the container.
- The user must always wear conductive personal protective equipment, especially shoes and gloves, to avoid electrostatic charges.
- The floor has to be conductive.
- Sampling vessels made of insulating material with a volume greater than 1 liter should not be used.
- Before using organic solvents, the user must ensure that there are no additional ignition hazards caused by process-specific parameters, such as increased ignitability of the substances due to changed environmental conditions or when sampling in combination with highly charge-generating processes.

These measures reduce the risk of electrostatic separation of charges, and significantly increase safety when handling solvents.



Heavy and light gases, hydrocarbon liquids and vapours, vapours of chemicals / lubricants / solvents, frac oils, flammable materials

Removing at least one of the component avoids the fire / explosion.



Merck stainless steel drums are part of a returnable process. Their use means that the user no longer has to cope with the topics of complete emptying, rinsing, disposing of the rinsing liquid and even disposing of the packaging itself in the proper manner.

After consumption of the solvents on user site the empty drums are returned to Merck, unrinsed and with their original labels still attached. On their return, we will ensure that they are properly cleaned, checked and refilled. Clear advantages for a time saving and cost effective way of daily solvent handling.



Important safety advice

Our withdrawal systems have been developed and optimized for the use with containers and solvents from Merck. Merck therefore disclaims any warranty or liability for the operability of its withdrawal systems in connection with containers or solvents from other manufacturers.

Merck reserves the right to refrain from the delivery of withdrawal systems if the respective order does not indicate that each withdrawal system will be used in combination with appropriate solvents and containers from Merck.

We inform and advise our customers to the best of our knowledge and ability but without any engagement or liability on our part. Our customers must obey all existing laws and regulations. This also applies in respect of any protected rights of third parties. Our information and advice does not eliminate the need for our customers to check, on their own responsibility, that our products are suitable for the purpose envisaged.

Withdrawal Systems for solvent drums

Manual pressure build-up

- Safe, easy and convenient solvent handling
- Usage of tested high quality materials to ensure a reliable, contamination free and safe handling of Merck solvents
- High flexibility due to independence on gas supply
- Suitable for solvents in 10 l and 25 l metal and stainless steel drums



Order number Necessary completive products 9.67100.1026 Dip tube for 25 I composite drum (steel/PE) Suitability 10 I and 25 I metal and stainless steel drums Recommended safety products Antistatic set (3 cables) 1.07070.0001 1.08803.0001 Drum opening key Operation mode Manual pressure build-up by pump ball Set components Withdrawal system body with 2" clamp Spare parts Dip tube for 10 l drums 9.67100.1012 Hand pump ball with rapid action connector Dip tube for 30 I drums 9.67100.1028 10 l dip tube Hand pump ball 9.67114.0000 25 I dip tube

Pressurizing with inert gas [only for stainless steel drums]

- Safe, easy and convenient solvent handling
- Usage of tested high quality materials to ensure a reliable, contamination free and safe handling of Merck solvents
- Cost effective solution due to economic concept of returnable container handling
- · Construction of a central supply system, direct connection to instruments or individual installations as options



System at a	a giance				
Order number	1.06710.0001		Necessary	Dip tube for 10 l stainless steel drums	9.67100.1010
Suitability	10 l, 25 l and 190 l		completive	Dip tube for 25 I stainless steel drums	9.67100.1025
•	stainless steel drums		products	Dip tube for 190 l stainless steel drums	9.67100.1190
Operation	Pressurizing with inert gas			Stainless steel clamp for filling nozzle attachment to drums	9.67106.0001
mode	(house gas / gas bottle)		Recommended	Antistatic set (3 cables)	1.07070.0001
Set	Filling nozzle with stainless steel	9.67100.9090	safety products	Drum opening key	1.08803.0001
components	coated, flexible PTFE-tube (80 cm)		Spare parts	Filling nozzle with stainless steel coated, flexible PTFE-tube (80 cm)	9.67100.9090
	Gas feeding tube	9.67100.9051		Gas feeding tube	9.67100.9051
	Threaded adapter with vertical	9.67100.9002		Threaded adapter with horizontal connections	9.67100.9003
	connections			Threaded adapter with vertical connections	9.67100.9002

Withdrawal Systems for solvent drums

Manual pressure build-up for high volumes

- Safe, easy and convenient solvent handling
- Usage of tested high quality materials to ensure a reliable, contamination free and safe handling of Merck solvents
- High flexibility due to independence on gas supply



System at a glance							
Order number	1.19171.0001	Necessary completive products	-				
Suitability	180 / 190 / 200 metal and stainless steel drums	Recommended safety products	Antistatic set (3 cables)	1.07070.0001			
Operation mode	Manual pressure build-up by foot pump ball		Drum opening key	1.08803.0001			
Set components	Withdrawal system body with 2" thread Foot pump ball with flexible tube and rapid action connector Adjustable dip tube	Spare parts	-				

Ordering information Inorganic Reagents & Solvents



Acids



EMSURE® | EMPARTA® | EMPLURA® Merck's acids offer the highest possible quality, greatest safety and optimized packaging - for a multitude of analytical applications. Every product undergoes strict quality checks using the most sensitive instruments and methods.

EMSURE® for analysis ACS, ISO, Reag. Ph Eur	Premium grade
For more information please have a look at page 20	
EMPARTA® for analysis ACS	Standard grade
For more information please have a look at page 32	

EMPLURA® Basic grade

▶ For more information please have a look at page 36

Ordering information Acids

Acids A-B

/ (clus / C D					
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Acetic acid 30 % for analysis EMSURE® Reag. Ph Eur			500 ml	Glass bottle	1.59166.0500
Acetic acid 60 % EMPLURA®			25 l	Plastic can	4.80362.9025
Acetic acid 96 % for analysis EMSURE®			1 l	Glass bottle	1.00062.1000
			1	HDPE bottle	1.00062.1011
			2.5	Glass bottle	1.00062.2500
			2.5	HDPE bottle	1.00062.2511
			25 l	Plastic can	1.00062.9025
Acetic acid (glacial) 100 % anhydrous	64-19-7	CH₃C00H	1 l	Glass bottle	1.00063.1000
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 l	HDPE bottle	1.00063.1011
			2.5	Glass bottle	1.00063.2500
			2.5 l	Safebreak bottle	1.00063.2510
			2.5	HDPE bottle	1.00063.2511
			25 l	Plastic can	1.00063.9026
Acetic acid (glacial) 100 % for analysis EMPARTA® ACS	64-19-7	CH ₃ COOH	2.5	HDPE bottle	1.01830.2500
Acetic anhydride	108-24-7	(CH ₃ CO) ₂ O	1	Glass bottle	1.00042.1000
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			2.5	Glass bottle	1.00042.2500
			25 l	Plastic can	1.00042.9025
Amidosulfuric acid for analysis EMSURE®	5329-14-6	H ₂ NSO ₃ H	100 g	HDPE bottle	1.00103.0100
			250 g	HDPE bottle	1.00103.0250
Amidosulfuric acid EMPLURA®	5329-14-6	H₂NSO₃H	2.5 kg	HDPE bottle	1.00219.2500
			25 kg	Fibre carton	1.00219.9025
L(+)-Ascorbic acid	50-81-7	$C_6H_8O_6$	100 g	HDPE bottle	1.00468.0100
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			500 g	HDPE bottle	1.00468.0500
			1 kg	HDPE bottle	1.00468.1000
Barbituric acid for analysis EMSURE®	67-52-7	$C_4H_4N_2O_3$	25 g	HDPE bottle	1.00132.0025
			100 g	HDPE bottle	1.00132.0100
Benzoic acid	65-85-0	C_eH_sCOOH	100 g	HDPE bottle	1.00136.0100
for analysis EMSURE® Reag. Ph Eur			250 g	HDPE bottle	1.00136.0250
			1 kg	HDPE bottle	1.00136.1000
Boric acid	10043-35-	3 H ₃ BO ₃	100 g	HDPE bottle	1.00165.0100
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			500 g	HDPE bottle	1.00165.0500
			1 kg	HDPE bottle	1.00165.1000
			5 kg	HDPE bottle	1.00165.5000
			12 kg	Plastic bucket	1.00165.9012
			25 kg	Fibre carton	1.00165.9025

Acids C-H

CAS No.	Chemical formula	Content	Packaging	Ord. No.
5949-29-1	C U O * U O	E00 ~	HDPE bottle	
5949-29-1	$C_6H_8O_7 * H_2O$	500 g		1.00244.0500
				1.00244.1000
				1.00244.5000
				1.00244.9012
				1.00244.9026
				1.00253.1000
		2.5	Glass bottle	1.10854.2500
64-18-6	НСООН	100 ml	Glass bottle	1.00264.0100
		1	Glass bottle	1.00264.1000
		1	HDPE bottle	1.00264.1011
		2.5	Glass bottle	1.00264.2500
		2.5	Safebreak bottle	1.00264.2510
		2.5	HDPE bottle	1.00264.2511
		25 I	Plastic can	1.00264.9026
79-14-1	HOCH₂COOH	100 g	HDPE bottle	1.04106.0100
		1	Glass bottle	1.00307.1000
		500 ml	Glass bottle	1.00304.0500
		2.5	Glass bottle	1.00304.2500
		20 I	Carboy	1.00304.9020
		1	Glass bottle	1.00316.1000
		1	HDPE bottle	1.00316.1011
		2.5	Glass bottle	1.00316.2500
		2.5 l	HDPE bottle	1.00316.2511
		25 I	Plastic can	1.00316.9025
		1	Glass bottle	1.00319.1000
		1	HDPE bottle	1.00319.1011
		2.5	Glass bottle	1.00319.2500
		2.5	HDPE bottle	1.00319.2511
		25 l	Plastic can	1.00319.9025
		2.5	Glass bottle	1.00313.2500
		25 l	Plastic can	1.00313.9025
		180 l	Plastic barrel	1.00313.9180
		2.5	Glass bottle	1.13386.2500
	64-18-6	64-18-6 HCOOH	1 kg 5 kg 12 kg 25 kg 25 kg 11 l 2.5 l	1 kg

Ordering information Acids

Acids H-N

ACIUS II-IN						
Product		CAS No.	Chemical formula	Content	Packaging	Ord. No.
Hydrochloric acid fuming 37 %				1 I	Glass bottle	1.00317.1000
for analysis EMSURE® ACS, ISO, Reag. Ph Eur				1 l	HDPE bottle	1.00317.1011
				2.5	Glass bottle	1.00317.2500
				2.5	HDPE bottle	1.00317.2501
				2.5	Safebreak bottle	1.00317.2510
				25 l	Plastic can	1.00317.9026
Hydrochloric acid fuming 37 %				2.5	HDPE bottle	1.01834.2500
for analysis EMPARTA® ACS				2.5	Glass bottle	1.01834.2502
Hydrofluoric acid 38 – 40 % EMPLURA®				1	HDPE bottle	1.00337.1000
				2.5	HDPE bottle	1.00337.2500
Hydrofluoric acid 40 %				500 ml	HDPE bottle	1.00338.0500
for analysis EMSURE® ISO, Reag. Ph Eur				1 l	HDPE bottle	1.00338.1000
				2.5 l	HDPE bottle	1.00338.2500
Hydrofluoric acid 48 %				500 ml	HDPE bottle	1.00334.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 l	HDPE bottle	1.00334.1000	
			2.5	HDPE bottle	1.00334.2500	
				5 l	Plastic can	1.00334.5000
Hydrogen peroxide 30 % (Perhydrol®)				250 ml	HDPE bottle	1.07210.0250
(stabilized for higher storage temp.) for analysis EMSURE® ISO			1 I	HDPE bottle	1.07210.1000	
				2.5	HDPE bottle	1.07210.2500
Hydrogen peroxide 30 % (Perhydrol®)				250 ml	HDPE bottle	1.07209.0250
for analysis EMSURE® ISO				500 ml	HDPE bottle	1.07209.0500
				1 l	HDPE bottle	1.07209.1000
				2.5	HDPE bottle	1.07209.2500
Hydrogen peroxide 35 % EMPLURA®				25 l	Plastic can	1.08556.9025
Hydroiodic acid 57 % for analysis EMSURE®				250 ml	Glass bottle	1.00344.0250
				1 l	Glass bottle	1.00344.1000
Hydroiodic acid 57 % EMPLURA®				250 ml	Glass bottle	1.00341.0250
				22	Carboy	1.00341.9022
Hydroiodic acid 67 % for analysis EMSURE®				250 ml	Glass bottle	1.00345.0250
Hypophosphorous acid 50 % for analysis EMSURE®	R)			500 ml	Glass bottle	1.04633.0500
Molybdatophosphoric acid hydrate		51429-74-4	H ₃ [P(Mo ₃ O ₁₀) ₄] * x H ₂ O	25 g	Glass bottle	1.00532.0025
for analysis EMSURE® ACS, Reag. Ph Eur				100 g	Glass bottle	1.00532.0100
Molybdic acid about 85 % MoO ₃ (containing ammonium molybdate) EMPLURA®		7782-91-4	H ₂ MoO ₄	1 kg	HDPE bottle	1.00400.1000
Nitric acid 65 % for analysis (max. 0.005 ppm Hg))			1 l	Glass bottle	1.00452.1000
EMSURE® ISO				2.5	Glass bottle	1.00452.2500
Nitric acid 65 % for analysis EMSURE® ISO				1 l	Glass bottle	1.00456.1000
,				2.5	Glass bottle	1.00456.2500
				2.5	Safebreak bottle	1.00456.2510
				25 l	PE / Metal Drum	1.00456.9026

Acids N-R

	Acids N-R					
	Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
	Nitric acid 65 % EMPLURA®			1 l	Glass bottle	1.00443.1000
				2.5	Glass bottle	1.00443.2500
				25 l	PE / Metal Drum	1.00443.9025
	Nitric acid 69 %			1	Glass bottle	1.01799.1000
	for analysis EMSURE® ACS, Reag. Ph Eur			2.5	Glass bottle	1.01799.2500
				2.5	Safebreak bottle	1.01799.2510
	Nitric acid 69 % for analysis EMPARTA® ACS			2.5	Glass bottle	1.01832.2500
	Nitric acid fuming 100 % for analysis EMSURE® Reag. Ph Eur	7697-37-2	HNO ₃	1	Glass btl. pl. coat.	1.00455.1000
	Oxalic acid dihydrate	6153-56-6	(COOH) ₂ * 2 H ₂ O	100 g	HDPE bottle	1.00495.0100
	for analysis EMSURE® ACS, ISO, Reag. Ph Eur			500 g	HDPE bottle	1.00495.0500
				1 kg	HDPE bottle	1.00495.1000
				25 kg	Fibre carton	1.00495.9025
	Oxalic acid dihydrate EMPLURA®	6153-56-6	(COOH) ₂ * 2 H ₂ O	1 kg	HDPE bottle	1.00492.1000
				5 kg	HDPE bottle	1.00492.5000
				50 kg	Fibre carton	1.00492.9050
	Perchloric acid 60 % for analysis EMSURE® ACS			1	Glass bottle	1.00518.1001
				6 x 1 l	Glass bottle	1.00518.1016
				2.5	Glass bottle	1.00518.2501
				4 x 2.5 l	Glass bottle	1.00518.2514
	Perchloric acid 70 %			1	Glass bottle	1.00514.1000
	for analysis (max. 0.0000005 % Hg) EMSURE® ACS, ISO, Reag. Ph Eur			6 x 1 l	Glass bottle	1.00514.1006
	Perchloric acid 70 - 72 %			1	Glass bottle	1.00519.1001
	for analysis EMSURE® ACS, ISO, Reag. Ph Eur			6 x 1 l	Glass bottle	1.00519.1016
				2.5	Glass bottle	1.00519.2501
				2.5	Safebreak bottle	1.00519.2510
				4 x 2.5 l	Glass bottle	1.00519.1016 1.00519.2501
	Periodic acid for analysis EMSURE®	10450-60-9	H ₅ IO ₆	25 g	Glass bottle	1.00524.0025
				100 g	Glass bottle	1.00524.0100
	meta-Phosphoric acid pieces for analysis			100 g	Metal can	1.00546.0100
	(stabilized with sodium metaphosphate) EMSURE®			500 g	Metal can	1.00546.0500
	ortho-Phosphoric acid 85 %			1	HDPE bottle	1.00573.1000
	for analysis EMSURE® ACS, ISO, Reag. Ph Eur			2.5	HDPE bottle	1.00573.2500
				2.5	Safebreak bottle	1.00573.2510
				25 l	Plastic can	1.00573.9025
	ortho-Phosphoric acid 99 % cryst. for analysis EMSURE®	7664-38-2	H ₃ PO ₄	500 g	HDPE bottle	1.00565.0500

Ordering information Acids

Acids S-T

Acius 3-1					
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Succinic acid for analysis EMSURE®	110-15-6	HOOCCH ₂ CH ₂ COOH	250 g	HDPE bottle	1.00682.0250
			500 g	HDPE bottle	1.00682.0500
Sulfuric acid 25 % for analysis EMSURE®			1	HDPE bottle	1.00716.1000
			25 l	Plastic can	1.00716.9025
Sulfuric acid 40 % for determination of gas metabolism acc. to knipping			2.5	Glass bottle	1.09286.2500
Sulfuric acid 62 % for analysis EMSURE®,			1	HDPE bottle	4.80531.1000
for the determination of fat in cheese (d 1.52)			2.5	HDPE bottle	4.80531.2500
Sulfuric acid 90 – 91 % for gerber fat determina-			500 ml	Glass bottle	1.00729.0500
tion and determination of nitrates in milk			2.5	Glass bottle	1.00729.2500
			25 I	Plastic can	1.00729.9025
Sulfuric acid 95 – 97 %	7664-93-9	H ₂ SO ₄	1	Glass bottle	1.00732.1000
for analysis (max. 0.005 ppm Hg) EMSURE®			2.5	Glass bottle	1.00732.2500
ACS, ISO, Reag. Ph Eur			2.5	Safebreak bottle	1.00732.2510
			25 l	Plastic can	1.00732.9025
Sulfuric acid 95 – 97 % for analysis EMSURE® ISO	7664-93-9	H ₂ SO ₄	1	Glass bottle	1.00731.1000
			1	HDPE bottle	1.00731.1011
			2.5	Glass bottle	1.00731.2500
			2.5	Safebreak bottle	1.00731.2510
			2.5	HDPE bottle	1.00731.2511
			25 l	Plastic can	1.00731.9025
Sulfuric acid 95 – 97% for analysis EMPARTA® ACS	7664-93-9	H ₂ SO ₄	2.5	HDPE bottle	1.01833.2500
Sulfuric acid 96 % for the determination	7664-93-9	H ₂ SO ₄	1	HDPE bottle	1.08131.1000
of viscosity acc. to DIN EN ISO 307			2.5	HDPE bottle	1.08131.2500
Sulfuric acid 98 % for analysis EMSURE®	7664-93-9	H ₂ SO ₄	1	Glass bottle	1.12080.1000
,		2 4	2.5	Glass bottle	1.12080.2500
			2.5	Safebreak bottle	1.12080.2510
			25 l	Plastic can	1.12080.9025
Sulfuric acid 98 % for the determination	7664-93-9	H ₂ SO ₄	500 ml	Glass bottle	1.00748.0500
of nitrogen		<u>.</u> T	2.5	Glass bottle	1.00748.2500
Sulfuric acid 100 % for conductivity measurements	7664-93-9	H ₂ SO ₄	1	Glass bottle	1.12223.1000
Sulfuric acid fuming 65 % SO ₃ EMPLURA®	8014-95-7	H ₂ SO ₄ * SO ₃ (1:2)	1 l	Glass btl. pl. coat.	1.00720.1000
Sulfurous acid 5 – 6 % SO, for analysis EMSURE®			1	Glass bottle	1.00761.1000
			2.5	Glass bottle	1.00761.2500
L(+)-Tartaric acid	87-69-4	HOOCCH(OH)CH(OH)	250 g	HDPE bottle	1.00804.0250
for analysis EMSURE® ACS, ISO, Reag. Ph Eur		СООН	1 kg	HDPE bottle	1.00804.1000
			5 kg	HDPE bottle	1.00804.5000
			50 kg	Fibre carton	1.00804.9050
Toluene-4-sulfonic acid monohydrate	6192-52-5	CH ₃ C ₆ H ₄ SO ₃ H * H ₂ O	100 g	HDPE bottle	1.09613.0100
for analysis EMSURE® ACS		3 - b 4 3 · · · · 2 -	500 g	HDPE bottle	1.09613.0500

Acids T-Z

	Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Т	Trichloroacetic acid for analysis EMSURE® ACS,	76-03-9	CCI ₃ COOH	100 g	Glass bottle	1.00807.0100
	Reag. Ph Eur			250 g	Glass bottle	1.00807.0250
				1 kg	Glass bottle	1.00807.1000
	Tungstophosphoric acid hydrate	12501-23-4	$H_3[P(W_3O_{10})_4] * x H_2O$	100 g	HDPE bottle	1.00583.0100
	for analysis EMSURE®			250 g	HDPE bottle	1.00583.0250
	Tungstophosphoric acid hydrate cryst. EMPLURA®	12501-23-4	H ₃ [P(W ₃ O ₁₀) ₄] * x H ₂ O	100 g	HDPE bottle	1.00582.0100
				25 kg	Fibre carton	1.00582.9025
	Tungstosilicic acid hydrate for analysis EMSURE®	12027-43-9	$H_4[Si(W_3O_{10})_4] * x H_2O$	100 g	HDPE bottle	1.00659.0100



► For more details about our packaging, please see "Packaging and Safe Handling" on page 42

Caustics alkalis and bases



EMSURE® | EMPLURA® Our high-quality caustic alkalis and bases are produced using specially selected raw materials. The range includes sodium and potassium hydroxide pellets and corresponding solutions, as well as ammonia solutions in various concentrations and grades. Simply choose the right product for your application.

EMSURE® for analysis ACS, ISO, Reag. Ph Eur

Premium grade

► For more information please have a look at page 20

EMPLURA®

Basic grade

► For more information please have a look at page 36

Ordering information Caustics and bases

Caustics and bases A-S

Caustics and bases A-3					
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Ammonia solution 25 %			11	Glass bottle	1.05432.1000
for analysis EMSURE®			1	HDPE bottle	1.05432.1011
			2.5	Glass bottle	1.05432.2500
			5 l	HDPE bottle	1.05432.5000
			25 l	Plastic can	1.05432.9025
Ammonia solution 28 - 30 %			1	Glass bottle	1.05423.1000
for analysis EMSURE® ACS, Reag. Ph Eur			2.5	Glass bottle	1.05423.2500
			25 l	Plastic can	1.05423.9025
Ammonia solution 32 % EMPLURA®			1	Glass bottle	1.05426.1000
			2.5	Glass bottle	1.05426.2500
Potassium hydroxide pellets	1310-58-3	3 КОН	250 g	HDPE bottle	1.05021.0250
for analysis (max. 0.002 % Na) EMSURE®			1 kg	HDPE bottle	1.05021.1000
ACS, ISO, Reag. Ph Eur			5 kg	HDPE bottle	1.05021.5000
			25 kg	Fibre carton	1.05021.9025
Potassium hydroxide pellets	1310-58-	3 КОН	1 kg	HDPE bottle	1.05029.1000
for analysis (max. 0.05 % Na) EMSURE®			12 kg	Plastic bucket	1.05029.9012
ACS, Reag. Ph Eur			50 kg	Fibre carton	1.05029.9050
Potassium hydroxide pellets	1310-58-	3 KOH	500 g	HDPE bottle	1.05033.0500
for analysis EMSURE®			1 kg	HDPE bottle	1.05033.1000
			5 kg	HDPE bottle	1.05033.5000
			25 kg	Fibre carton	1.05033.9025
			50 kg	Fibre carton	1.05033.9050
Potassium hydroxide pellets EMPLURA®	1310-58-	в кон	1 kg	HDPE bottle	1.05012.1000
			5 kg	HDPE bottle	1.05012.5000
			50 kg	Fibre carton	1.05012.9050
Potassium hydroxide solution 47 %			11	HDPE bottle	1.05545.1000
for analysis EMSURE®			25 l	Plastic can	1.05545.9025
Sodium hydroxide pellets	1310-73-	2 NaOH	250 q	HDPE bottle	1.06495.0250
for analysis (max. 0.0002 % K) EMSURE®			1 kg	HDPE bottle	1.06495.1000
ACS, ISO, Reag. Ph Eur			5 kg	HDPE bottle	1.06495.5000
Sodium hydroxide pellets	1310-73-	2 NaOH	1 kg	HDPE bottle	1.06469.1000
for analysis (max. 0.02 % K) EMSURE®	12.12.70		5 kg	HDPE bottle	1.06469.5000
ACS, ISO, Reag. Ph Eur			12 kg	Plastic bucket	1.06469.9012
			50 kg	Fibre carton	1.06469.9050
Sodium hydroxide pellets	1310-73-	2 NaOH	500 g	HDPE bottle	1.06498.0500
for analysis EMSURE® ISO	1310-73-	- 140011	1 kg	HDPE bottle	1.06498.1000
-			5 kg	HDPE bottle	1.06498.5000
				Fibre carton	
			25 kg	Fibre carton	1.06498.9025
			50 kg	riore carton	1.06498.9050

Caustics and bases S-Z

Caustics and bases 3-Z						
Product		CAS No.	Chemical formula	Content	Packaging	Ord. No.
Sodium hydroxide pellets EMPLURA®		1310-73-2	NaOH	1 kg	HDPE bottle	1.06462.1000
				5 kg	HDPE bottle	1.06462.5000
				50 kg	Fibre carton	1.06462.9050
Sodium hydroxide granulated EMPLURA®		1310-73-2	NaOH	10 kg	HDPE bottle	1.06467.9010
				50 kg	Fibre carton	1.06467.9050
Sodium hydroxide solution min. 10 % (1.11)				1 I	HDPE bottle	1.05588.1000
for analysis EMSURE®				10 I	Plastic can	1.05588.9010
Sodium hydroxide solution 21 % for analysis EMSURE®				25	Plastic can	1.05593.9025
Sodium hydroxide solution min. 27 % (1.30)				2.5 l	HDPE bottle	1.05591.2500
for analysis (for the determination of nitrogen) EMSURE®				25	Plastic can	1.05591.9025
Sodium hydroxide solution about 32 %				2.5	HDPE bottle	1.05590.2500
(for the determination of nitrogen) for analysis EMSURE®				25	Plastic can	1.05590.9025
Sodium hydroxide solution about 32 % EMPLURA®				2.5 l	HDPE bottle	1.05587.2500
				5 l	HDPE bottle	1.05587.5000
				25 l	Plastic can	1.05587.9025
				200 l	Plastic barrel	1.05587.9200
Sodium hydroxide solution about 36 % for analysis EMSURE®				5 l	HDPE bottle	1.05596.5000
Sodium hydroxide solution min. 45 %				2.5	HDPE bottle	1.11360.2500
for analysis EMSURE®				25 l	Plastic can	1.11360.9025
Sodium hydroxide solution 50 %				1	HDPE bottle	1.58793.1000
for analysis EMSURE®				5 l	HDPE bottle	1.58793.5000
				25 I	Plastic can	1.58793.9025



► For more details about our packaging, please see "Packaging and Safe Handling" on page 42

Metals and metal oxides



EMSURE® | EMPLURA® Merck's metal salts, metals and noble metals are renowned for their high quality and purity. We offer a diverse range of products suitable for a multitude of applications in R&D, production and quality control.

 $EMSURE^{\circledR}$ for analysis ACS, ISO, Reag. Ph Eur

Premium grade

▶ For more information please have a look at page 20

EMPLURA®

Basic grade

► For more information please have a look at page 36

Ordering information Metals and metal oxides

Metals and metal oxides A-L

	Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
	Aluminium fine powder, stabilized about 2 % fat	7429-90-5	Al	250 g	Metal can	1.01056.0250
				1 kg	Metal can	1.01056.1000
	Aluminium (foil) for analysis 0.3 mm thickness,	7429-90-5	Al	250 g	Fibre case	1.01057.0250
	30 mm width EMSURE®			1 kg	Plastic bag	1.01057.1000
	Antimony(III) chloride for analysis EMSURE® ACS	10025-91-9	SbCl ₃	250 g	Glass bottle	1.07838.0250
				1 kg	Glass bottle	1.07838.1000
	Antimony(III) oxide for analysis EMSURE®	1309-64-4	Sb ₂ O ₃	100 g	HDPE bottle	1.07836.0100
				1 kg	HDPE bottle	1.07836.1000
	Antimony(III) oxide EMPLURA®	1309-64-4	Sb ₂ O ₃	2.5 kg	HDPE bottle	1.07835.2500
				50 kg	Fibre carton	1.07835.9050
	Bismuth(III) oxide EMPLURA®	1304-76-3	Bi ₂ O ₃	1 kg	HDPE bottle	1.01862.1000
				25 kg	Fibre carton	1.01862.9025
	Cadmium coarse powder, for analysis and for filling	7440-43-9	Cd	250 g	Metal can	1.02001.0250
	reductors particle size about 0.3 – 1.6 mm EMSURE®			1 kg	Metal can	1.02001.1000
	Cadmium granular, for analysis particle size about	7440-43-9	Cd	250 g	Metal can	1.02004.0250
	3 – 6 mm EMSURE®					
	Cesium chloride for analysis EMSURE®	7647-17-8	CsCl	25 g	Glass bottle	1.02038.0025
				100 g	HDPE bottle	1.02038.0100
	Cesium chloride EMPLURA®	7647-17-8	CsCl	1 kg	HDPE bottle	1.02041.1000
	Cesium nitrate 99+ for analysis EMSURE®	7789-18-6	CsNO ₃	25 g	Glass bottle	1.02856.0025
				1 kg	HDPE bottle	1.02856.1000
	Chromium(VI) oxide for analysis EMSURE®	1333-82-0	CrO ₃	250 g	Glass bottle	1.00229.0250
	Copper fine powder particle size < 63 MYm	7440-50-8	Cu	250 g	HDPE bottle	1.02703.0250
	(> 230 mesh ASTM) EMSURE®			1 kg	HDPE bottle	1.02703.1000
	Copper foil about 0.1 mm thickness for analysis EMSURE®	7440-50-8	Cu	250 g	Fibre case	1.02700.0250
	Copper(II) oxide granular for analysis EMSURE®	1317-38-0	CuO	500 g	HDPE bottle	1.02768.0500
	Copper(II) oxide powder for analysis EMSURE® ACS	1317-38-0	CuO	100 g	HDPE bottle	1.02766.0100
				500 g	HDPE bottle	1.02766.0500
	Copper(II) oxide powder EMPLURA®	1317-38-0	CuO	500 g	HDPE bottle	1.02761.0500
				25 kg	Plastic drum	1.02761.9025
	Devarda's alloy for analysis EMSURE®	8049-11-4	Cu / Al / Zn	250 g	HDPE bottle	1.05341.0250
				1 kg	HDPE bottle	1.05341.1000
	Iron for analysis reduced, particle size 10 μm	7439-89-6	Fe	100 g	HDPE bottle	1.03819.0100
	EMSURE®			500 g	HDPE bottle	1.03819.0500
	Lanthanum(III) oxide EMPLURA®	1312-81-8	La_2O_3	100 g	HDPE bottle	1.12220.0100
				500 g	HDPE bottle	1.12220.0500
	Lead foil for analysis about 0.25 mm thick EMSURE®	7439-92-1	Рь	500 g	Plastic bag	1.07365.0500
	Lead(II) oxide for analysis EMSURE®	1317-36-8	PbO	250 g	HDPE bottle	1.07401.0250
				1 kg	HDPE bottle	1.07401.1000

Metals and metal oxides L-U

	Metals and metal oxides L-U					
	Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
L	Lead(II) oxide EMPLURA®	1317-36-8	PbO	5 kg	HDPE bottle	1.05658.5000
				50 kg	Plastic drum	1.05658.9050
	Lithium hydroxide 98 % + for analysis EMSURE®	1310-65-2	LiOH	100 g	HDPE bottle	1.05691.0100
				1 kg	HDPE bottle	1.05691.1000
M	Magnesium foil 0.15 – 0.30 mm thickness, 3 mm wide	7439-95-4	Mg	1 roll	Fibre case	1.05812.0001
	Magnesium powder particle size about 0.06 – 0.3 mm	7439-95-4	Mg	1 kg	Metal can	1.05815.1000
	Magnesium oxide for analysis (max. 0.001 % SO ₄)	1309-48-4	MgO	100 g	HDPE bottle	1.05866.0100
	EMSURE® ACS			500 g	HDPE bottle	1.05866.0500
	Magnesium oxide for analysis EMSURE®	1309-48-4	MgO	100 g	HDPE bottle	1.05865.0100
				500 g	HDPE bottle	1.05865.0500
	Manganese(IV) oxide powder EMPLURA®	1313-13-9	MnO ₂	1 kg	Glass bottle	1.05957.1000
	Molybdenum(VI) oxide for analysis EMSURE®	1313-27-5	MoO ₃	100 g	HDPE bottle	1.00403.0100
				500 g	HDPE bottle	1.00403.0500
P	Palladium powdered 99+ for analysis EMSURE®	7440-05-3	Pd	1 g	Glass bottle	1.19225.0001
				5 g	Glass bottle	1.19225.0005
	Platinum black 98+ for analysis EMSURE®	7440-06-4	Pt	5 g	Glass bottle	1.19233.0005
				50 g	HDPE bottle	1.19233.0050
R	Rubidium chloride for analysis EMSURE®	7791-11-9	RbCl	25 g	Glass bottle	1.07615.0025
	Ruthenium(III) chloride hydrate	14898-67-0	RuCl ₃ * x H ₂ O	5 g	Glass bottle	1.19247.0005
	for analysis EMSURE®			25 g	Glass bottle	1.19247.0025
S	Selenium black 99+ for analysis EMSURE®	7782-49-2	Se	50 g	HDPE bottle	1.07714.0050
				250 g	HDPE bottle	1.07714.0250
				1 kg	HDPE bottle	1.07714.1000
	Silver chloride 99+ for analysis EMSURE®	7783-90-6	AgCl	25 g	HDPE bottle	1.19203.0025
				100 g	HDPE bottle	1.19203.0100
				1 kg	HDPE bottle	1.19203.1000
	Silver oxide 99+ for analysis EMSURE®	20667-12-3	Ag_2O	25 g	HDPE bottle	1.19208.0025
				100 g	HDPE bottle	1.19208.0100
	Sodium rod diameter 2.5 cm (protective liquid: paraffin oil)	7440-23-5	Na	250 g	Glass bottle	1.06260.0250
Т	Tin fine powder EMPLURA® (particle size < 71 μm)	7440-31-5	Sn	250 g	HDPE bottle	1.07807.0250
	Tin foil about 0.04 mm thick	7440-31-5	Sn	200 strips	Plastic box	1.07826.0001
	Tin granulated for analysis	7440-31-5	Sn	250 g	HDPE bottle	1.07806.0250
	(particle size about 4 mm) EMSURE® Reag. Ph Eur			1 kg	HDPE bottle	1.07806.1000
	Tin(IV) oxide EMPLURA®	18282-10-5	SnO ₂	250 g	HDPE bottle	1.07818.0250
				25 kg	Fibre carton	1.07818.9025
	Titanium(IV) oxide	13463-67-7	TiO ₂	1 kg	HDPE bottle	1.00808.1000
	for analysis EMSURE® Reag. Ph Eur			25 kg	Fibre carton	1.00808.9025

Ordering information Metals and metal oxides

Metals and metal oxides V-Z

	Product		CAS No.	Chemical formula	Content	Packaging	Ord. No.
V	Vanadium(V) oxide EMPLURA®		1314-62-1	V ₂ O ₅	250 g	HDPE bottle	1.00824.0250
					1 kg	HDPE bottle	1.00824.1000
Y	Yttrium oxide 99+ for analysis EMSURE®		1314-36-9	$Y_{2}O_{3}$	25 g	HDPE bottle	1.12412.0025
Z	Zinc dust particle size < 63 μm EMPLURA®		7440-66-6	Zn	1 kg	HDPE bottle	1.08774.1000
					50 kg	Steel drum	1.08774.9050
	Zinc EMSURE® Reag. Ph Eur		7440-66-6	Zn	250 g	Metal can	1.08756.0250
					1 kg	Metal can	1.08756.1000
	Zinc granular for analysis, particle size		7440-66-6	Zn	500 g	HDPE bottle	1.08780.0500
	about 3 – 8 mm EMSURE® ISO				1 kg	HDPE bottle	1.08780.1000
	Zinc powder for analysis particle size < 45 MYm		7440-66-6	Zn	500 g	Metal can	1.08789.0500
	EMSURE®				1 kg	Metal can	1.08789.1000
	Zinc sticks, triangular cross section about 8 mm for analysis EMSURE®		7440-66-6	Zn	500 g	Plastic bag	1.08782.0500
	Zinc oxide for analysis EMSURE® ACS, Reag. Ph Eur		1314-13-2	Zn0	500 g	HDPE bottle	1.08849.0500
					1 kg	HDPE bottle	1.08849.1000
					25 kg	Fibre carton	1.08849.9025
	Zirconium(IV) oxide chloride octahydrate for analysis EMSURE®		13520-92-8	ZrOCl ₂ * 8 H ₂ O	100 g	HDPE bottle	1.08917.0100

EMSURE®







► For more details about our packaging, please see "Packaging and Safe Handling" on page 42

Salts



EMSURE® | EMPLURA® We offer an extensive range of inorganic salts for qualitative and quantitative analysis. Each product is manufactured under strictly controlled conditions at Merck's facilities in Darmstadt, Germany, to ensure outstanding analytical purity.

EMSURE® for analysis ACS, ISO, Reag. Ph Eur

Premium grade

► For more information please have a look at page 20

EMPLURA®

Basic grade

▶ For more information please have a look at page 36

Ordering information Salts

Salts A

2git? A					
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Aluminium ammonium sulfate dodecahydrate for analysis EMSURE® ACS	7784-26-1	NH ₄ Al(SO ₄) ₂ * 12 H ₂ O	500 g	HDPE bottle	1.01031.0500
Aluminium hydroxide powder EMPLURA®	21645-51-2	AI(0H) ₃ * x H ₂ 0	1 kg	HDPE bottle	1.01091.1000
hydrargillite			50 kg	Fibre carton	1.01091.9050
Aluminium nitrate nonahydrate	7784-27-2	AI(NO ₃) ₃ * 9 H ₂ O	500 g	HDPE bottle	1.01063.0500
for analysis EMSURE®			50 kg	Fibre carton	1.01063.9050
Aluminium nitrate nonahydrate EMPLURA®	7784-27-2	AI(NO ₃) ₃ * 9 H ₂ O	1 kg	HDPE bottle	1.01086.1000
			50 kg	Plastic can	1.01086.9050
Aluminium potassium sulfate dodecahydrate for analysis EMSURE® ACS, Reag. Ph Eur	7784-24-9	KAI(SO ₄) ₂ * 12 H ₂ O	1 kg	HDPE bottle	1.01047.1000
Ammonium acetate	631-61-8	CH ₃ COONH ₄	500 g	HDPE bottle	1.01116.0500
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.01116.1000
			5 kg	HDPE bottle	1.01116.5000
			12 kg	Plastic bucket	1.01116.9012
onium acetate EMPLURA®			25 kg	Fibre carton	1.01116.9025
nonium acetate EMPLURA®	631-61-8	CH ₃ COONH ₄	1 kg	HDPE bottle	1.01115.1000
			5 kg	HDPE bottle	1.01115.5000
Ammonium amidosulfonate for analysis (for detection of sulfonamide in blood) EMSURE® ACS, Reag. Ph Eur	7773-06-0	H ₂ NSO ₃ NH ₄	100 g	HDPE bottle	1.01220.0100
mmonium benzoate EMPLURA®	1863-63-4	C ₆ H ₅ COONH ₄	1 kg	HDPE bottle	1.01118.1000
			50 kg	Fibre carton	1.01118.9050
Ammonium bromide for analysis EMSURE® ACS	12124-97-9	NH₄Br	1 kg	HDPE bottle	1.01125.1000
Ammonium carbamate for analysis EMSURE®	1111-78-0	H ₂ NCOONH ₄	500 g	HDPE bottle	1.01134.0500
Ammonium carbonate	10361-29-2		250 g	HDPE bottle	1.59504.0250
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.59504.1000
Ammonium cerium(IV) nitrate	16774-21-3	(NH4)2[Ce(NO3)6]	100 g	HDPE bottle	1.02276.0100
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.02276.1000
Ammonium cerium(IV) sulfate dihydrate for analysis EMSURE® ACS	10378-47-9	(NH ₄) ₄ Ce(SO ₄) ₄ * 2 H ₂ O	100 g	HDPE bottle	1.02273.0100
Ammonium chloride	12125-02-9	NH ₄ CI	500 g	HDPE bottle	1.01145.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.01145.1000
			5 kg	HDPE bottle	1.01145.5000
			25 kg	Fibre carton	1.01145.9025
			50 kg	Fibre carton	1.01145.9050
Ammonium dihydrogen phosphate	7722-76-1	(NH ₄)H ₂ PO ₄	500 g	HDPE bottle	1.01126.0500
for analysis EMSURE® ACS, Reag. Ph Eur			5 kg	HDPE bottle	1.01126.5000
			50 kg	Fibre carton	1.01126.9050
Ammonium fluoride	12125-01-8	NH₄F	250 g	HDPE bottle	1.01164.0250
for analysis EMSURE® ACS			1 kg	HDPE bottle	1.01164.1000
,			5		

Salts A

Saits A	0464				
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
di-Ammonium hydrogen citrate	3012-65-5	$C_6H_8O_7 * 2 NH_3$	500 g	HDPE bottle	1.01154.0500
for analysis EMSURE® ACS, Reag. Ph Eur			2.5 kg	HDPE bottle	1.01154.2500
di-Ammonium hydrogen phosphate	7783-28-0	$(NH_4)_2HPO_4$	500 g	HDPE bottle	1.01207.0500
for analysis EMSURE® ACS, Reag. Ph Eur			50 kg	Fibre carton	1.01207.9050
Ammonium iron(III) sulfate dodecahydrate	7783-83-7	(NH ₄)Fe(SO ₄) ₂ * 12 H ₂ O	500 g	HDPE bottle	1.03776.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.03776.1000
			5 kg	HDPE bottle	1.03776.5000
			12 kg	Plastic bucket	1.03776.9012
			50 kg	Fibre carton	1.03776.9050
Ammonium iron(II) sulfate hexahydrate	7783-85-9	$(NH_4)_2 Fe(SO_4)_2 * 6 H_2O$	500 g	HDPE bottle	1.03792.0500
for analysis EMSURE® ISO			1 kg	HDPE bottle	1.03792.1000
			5 kg	HDPE bottle	1.03792.5000
			50 kg	Fibre carton	1.03792.9050
Ammonium nitrate for analysis EMSURE® ACS	6484-52-2	NH ₄ NO ₃	500 g	HDPE bottle	1.01188.0500
			1 kg	HDPE bottle	1.01188.1000
			5 kg	HDPE bottle	1.01188.5000
mmonium nitrate EMPLURA®	6484-52-2	NH ₄ NO ₃	1 kg	HDPE bottle	1.01187.1000
			5 kg	HDPE bottle	1.01187.5000
li-Ammonium oxalate monohydrate EMPLURA®	6009-70-7	(NH ₄) ₂ C ₂ O ₄ * H ₂ O	1 kg	HDPE bottle	1.01190.1000
			50 kg	Fibre carton	1.01190.9050
di-Ammonium oxalate monohydrate	6009-70-7	(NH ₄) ₂ C ₂ O ₄ * H ₂ O	250 g	HDPE bottle	1.01192.0250
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.01192.1000
Ammonium peroxodisulfate EMPLURA®	7727-54-0	(NH ₄) ₂ S ₂ O ₈	1 kg	HDPE bottle	1.01200.1000
			5 kg	HDPE bottle	1.01200.5000
			25 kg	Plastic drum	1.01200.9025
Ammonium peroxodisulfate	7727-54-0	(NH ₄) ₂ S ₂ O ₈	500 g	HDPE bottle	1.01201.0500
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.01201.1000
			5 kg	HDPE bottle	1.01201.5000
			12 kg	Plastic bucket	1.01201.9012
Ammonium sulfate	7783-20-2	(NH ₄) ₂ SO ₄	100 g	HDPE bottle	1.01217.0100
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.01217.1000
			5 kg	HDPE bottle	1.01217.5000
			25 kg	Fibre carton	1.01217.9025
			50 kg	Fibre carton	1.01217.9050
Ammonium thiograpate	1762-95-4	NH₄SCN	500 g	HDPE bottle	1.01213.0500
mmonium thiocyanate or analysis EMSURE® ACS, ISO, Reag. Ph Eur		*			

Ordering information Salts

Salts B-C

Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Barium acetate for analysis EMSURE® ACS	543-80-6	Ba(CH ₃ COO) ₂	500 q	HDPE bottle	1.01704.0500
Barium carbonate	513-77-9	BaCO ₃	250 g	HDPE bottle	1.01714.0250
for analysis EMSURE® ACS, Reag. Ph Eur		3	1 kg	HDPE bottle	1.01714.1000
Barium chloride dihydrate	10326-27-9	BaCl ₂ * 2 H ₂ O	500 q	HDPE bottle	1.01719.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur		2 2	1 kg	HDPE bottle	1.01719.1000
			5 kg	HDPE bottle	1.01719.5000
			50 kg	Fibre carton	1.01719.9050
Barium chloride dihydrate EMPLURA®	10326-27-9	BaCl ₂ * 2 H ₂ O	1 kg	HDPE bottle	1.01717.1000
Barium hydroxide octahydrate EMPLURA®	12230-71-6	Ba(OH) ₂ * 8 H ₂ O	1 kg	HDPE bottle	1.01735.1000
Barium hydroxide octahydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	12230-71-6	Ba(OH) ₂ * 8 H ₂ O	500 g	HDPE bottle	1.01737.0500
Barium nitrate for analysis EMSURE® ACS	10022-31-8	Ba(NO ₃) ₂	500 g	HDPE bottle	1.01729.0500
			50 kg	Fibre carton	1.01729.9050
Barium perchlorate anhydrous	13465-95-7	Ba(ClO ₄) ₂	250 g	Metal can	1.01738.0250
for analysis EMSURE®			1 kg	Metal can	1.01738.1000
Bismuth(III) nitrate alkaline for analysis EMSURE® Reag. Ph Eur	1304-85-4	Bi ₅ O(OH) ₉ (NO ₃) ₄	100 g	HDPE bottle	1.01878.0100
Cadmium acetate dihydrate for analysis EMSURE®	5743-04-4	(CH ₃ COO) ₂ Cd * 2 H ₂ O	500 g	HDPE bottle	1.02003.0500
Cadmium oxide EMPLURA®	1306-19-0	CdO	5 kg	Metal can	1.02015.5000
Cadmium sulfate hydrate for analysis EMSURE® ACS	7790-84-3	3 CdSO ₄ * 8 H ₂ O	100 g	HDPE bottle	1.02027.0100
Calcium carbonate precipitated	471-34-1	CaCO ₃	250 g	HDPE bottle	1.02066.0250
for analysis EMSURE® Reag. Ph Eur			1 kg	HDPE bottle	1.02066.1000
			50 kg	Fibre carton	1.02066.9050
Calcium carbonate precipitated for analysis of silicates EMSURE®	471-34-1	CaCO ₃	500 g	HDPE bottle	1.02067.0500
Calcium chloride dihydrate	10035-04-8	CaCl ₂ * 2 H ₂ O	250 g	HDPE bottle	1.02382.0250
for analysis EMSURE® ACS, Reag. Ph Eur			500 g	HDPE bottle	1.02382.0500
			1 kg	HDPE bottle	1.02382.1000
			5 kg	HDPE bottle	1.02382.5000
			25 kg	Fibre carton	1.02382.9025
Calcium hydroxide	1305-62-0	Ca(OH) ₂	500 g	HDPE bottle	1.02047.0500
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.02047.1000
			50 kg	Fibre carton	1.02047.9050
Calcium nitrate tetrahydrate	13477-34-4	Ca(NO ₃) ₂ * 4 H ₂ O	500 g	HDPE bottle	1.02121.0500
for analysis EMSURE® ACS			5 kg	HDPE bottle	1.02121.5000
			50 kg	Fibre carton	1.02121.9050
Calcium nitrate tetrahydrate EMPLURA®	13477-34-4	Ca(NO ₃) ₂ * 4 H ₂ O	5 kg	HDPE bottle	1.02120.5000
Calcium sulfate dihydrate precipitated for analysis EMSURE®	10101-41-4	CaSO ₄ * 2 H ₂ 0	500 g	HDPE bottle	1.02161.0500

Salts C-I

Salts C-I						
Product		CAS No.	Chemical formula	Content	Packaging	Ord. No.
Cerium(IV) sulfate tetrahydrate		10294-42-5	Ce(SO ₄) ₂ * 4 H ₂ O	25 g	HDPE bottle	1.02274.0025
for analysis EMSURE®				100 g	HDPE bottle	1.02274.0100
				250 g	HDPE bottle	1.02274.0250
Chromium(III) nitrate nonahydrate for analysis EMSURE®		7789-02-8	Cr(NO ₃) ₃ * 9 H ₂ O	250 g	HDPE bottle	1.02481.0250
Chromium(III) potassium sulfate dodecahydrate for analysis EMSURE® ACS, Reag. Ph Eur		7788-99-0	KCr(SO ₄) ₂ * 12 H ₂ O	250 g	HDPE bottle	1.01036.0250
Cobalt(II) acetate tetrahydrate for analysis EMSURE® ACS		6147-53-1	(CH ₃ COO) ₂ Co * 4 H ₂ O	100 g	HDPE bottle	1.02529.0100
Cobalt(II) chloride hexahydrate		7791-13-1	CoCl ₂ * 6 H ₂ O	100 g	HDPE bottle	1.02539.0100
for analysis EMSURE® ACS, Reag. Ph Eur				250 g	HDPE bottle	1.02539.0250
Cobalt(II) nitrate hexahydrate for analysis (max. 0.001 % Ni) EMSURE® ACS, Reag. Ph Eur		10026-22-9	Co(NO ₃) ₂ * 6 H ₂ O	250 g	HDPE bottle	1.02554.0250
Cobalt(II) nitrate hexahydrate		10026-22-9	Co(NO ₃) ₂ * 6 H ₂ O	100 g	HDPE bottle	1.02536.0100
for analysis EMSURE®				250 g	HDPE bottle	1.02536.0250
Cobalt(II) sulfate heptahydrate for analysis EMSURE®		10026-24-1	CoSO ₄ * 7 H ₂ O	250 g	HDPE bottle	1.02556.0250
Copper(II) acetate monohydrate for analysis EMSURE® ACS		6046-93-1	(CH ₃ COO) ₂ Cu * H ₂ O	250 g	HDPE bottle	1.02711.0250
Copper(II) acetate monohydrate cryst. EMPLURA®		6046-93-1	(CH ₃ C00) ₂ Cu * H ₂ 0	500 g	HDPE bottle	1.02710.0500
				50 kg	Fibre carton	1.02710.9050
Copper(I) chloride for analysis EMSURE® ACS		7758-89-6	CuCl	250 g	HDPE bottle	1.02739.0250
Copper(II) chloride dihydrate		10125-13-0	CuCl ₂ * 2 H ₂ 0	250 g	HDPE bottle	1.02733.0250
for analysis EMSURE® ACS, Reag. Ph Eur				1 kg	HDPE bottle	1.02733.1000
Copper(II) nitrate trihydrate		10031-43-3	Cu(NO ₃) ₂ * 3 H ₂ O	250 g	HDPE bottle	1.02753.0250
for analysis EMSURE®				1 kg	HDPE bottle	1.02753.1000
				25 kg	Fibre carton	1.02753.9025
Copper(II) sulfate anhydrous for analysis EMSURE	R)	7758-98-7	CuSO ₄	250 g	HDPE bottle	1.02791.0250
				1 kg	HDPE bottle	1.02791.1000
Copper(II) sulfate pentahydrate		7758-99-8	CuSO ₄ * 5 H ₂ O	250 g	HDPE bottle	1.02790.0250
for analysis EMSURE® ACS, ISO, Reag. Ph Eur				1 kg	HDPE bottle	1.02790.1000
				5 kg	HDPE bottle	1.02790.5000
				50 kg	Fibre carton	1.02790.9050
Iron(III) chloride hexahydrate		10025-77-1	FeCl ₃ * 6 H ₂ O	250 g	HDPE bottle	1.03943.0250
for analysis EMSURE® ACS, Reag. Ph Eur				1 kg	HDPE bottle	1.03943.1000
				25 kg	Plastic drum	1.03943.9025
Iron(III) chloride solution (10 % Fe) for analysis EMSURE®				250 ml	HDPE bottle	1.05512.0250
Iron(II) chloride tetrahydrate		13478-10-9	FeCl ₂ * 4 H ₂ 0	250 g	HDPE bottle	1.03861.0250
for analysis EMSURE®			2 2	1 kg	HDPE bottle	1.03861.1000
				50 kg	Plastic drum	1.03861.9050
				50 kg	. idstic didili	110000110000

Ordering information Salts

Salts I-M

Saits I-IVI					
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Iron(III) nitrate nonahydrate	7782-61-8	Fe(NO ₃) ₃ * 9 H ₂ O	250 g	HDPE bottle	1.03883.0250
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.03883.1000
Iron(III) phosphate for analysis calcined (max. $0.001~\%~SO_4$) EMSURE $^{\odot}$	10045-86-0	FePO ₄	500 g	HDPE bottle	1.03935.0500
Iron(II) sulfate heptahydrate	7782-63-0	FeSO ₄ * 7 H ₂ O	100 g	HDPE bottle	1.03965.0100
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			500 g	HDPE bottle	1.03965.0500
			1 kg	HDPE bottle	1.03965.1000
			5 kg	HDPE bottle	1.03965.5000
			25 kg	Plastic drum	1.03965.9025
Lead(II) acetate trihydrate	6080-56-4	(CH ₃ COO) ₂ Pb * 3 H ₂ O	250 g	HDPE bottle	1.07375.0250
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.07375.1000
Lead(II) carbonate for analysis EMSURE® ACS	598-63-0	PbCO ₃	250 g	HDPE bottle	1.07381.0250
Lead(II) hydroxide acetate anhydrous	51404-69-4	(CH ₃ COO) ₂ Pb * Pb(OH) ₂	1 kg	HDPE bottle	1.07414.1000
for the analysis of sugar acc. to Horne $\textsc{EMSURE}^{\text{\tiny{\$}}}$			30 kg	Fibre carton	1.07414.9030
Lead(II) nitrate	10099-74-8	Pb(NO ₃) ₂	100 g	HDPE bottle	1.07398.0100
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.07398.1000
Lithium carbonate for analysis EMSURE® ACS, Reag. Ph Eur	554-13-2	Li ₂ CO ₃	250 g	HDPE bottle	1.05680.0250
Lithium carbonate EMPLURA®	554-13-2	Li ₂ CO ₃	50 kg	Fibre carton	1.05670.9050
Lithium chloride	7447-41-8	LiCl	100 g	HDPE bottle	1.05679.0100
for analysis EMSURE® ACS, Reag. Ph Eur			250 g	HDPE bottle	1.05679.0250
Lithium sulfate monohydrate for analysis EMSURE® ACS, Reag. Ph Eur	10102-25-7	Li ₂ SO ₄ * H ₂ O	250 g	HDPE bottle	1.05694.0250
Magnesium acetate tetrahydrate	16674-78-5	(CH ₃ COO) ₂ Mg * 4 H ₂ O	250 g	HDPE bottle	1.05819.0250
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.05819.1000
			50 kg	Fibre carton	1.05819.9050
Magnesium chloride hexahydrate	7791-18-6	MgCl ₂ * 6 H ₂ O	250 g	HDPE bottle	1.05833.0250
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.05833.1000
			5 kg	HDPE bottle	1.05833.5000
			25 kg	Fibre carton	1.05833.9025
Magnesium hydroxide carbonate for analysis EMSURE®	12125-28-9	~ 4 MgCO ₃ * Mg(OH) * 5 H ₂ O	250 g	HDPE bottle	1.05827.0250
Magnesium nitrate hexahydrate	13446-18-9	Mg(NO ₃) ₂ * 6 H ₂ O	500 g	HDPE bottle	1.05853.0500
for analysis EMSURE® ACS, Reag. Ph Eur			25 kg	Plastic drum	1.05853.9025
Magnesium perchlorate hydrate	64010-42-0	Mg(ClO ₄) ₂ * x H ₂ O	100 g	Metal can	1.05874.0100
[about 83 % Mg(ClO ₄) ₂] for analysis EMSURE®			500 g	Metal can	1.05874.0500
	7487-88-9	MgSO₄	1 kg	Glass bottle	1.06067.1000
Magnesium sulfate anhydrous	 7407-00-3	1119304	1 109		

Salts M

Salts M					
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Magnesium sulfate heptahydrate	10034-99-8	MgSO ₄ * 7 H ₂ O	500 g	HDPE bottle	1.05886.0500
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.05886.1000
			5 kg	HDPE bottle	1.05886.5000
			50 kg	Fibre carton	1.05886.9050
Manganese(II) chloride dihydrate	20603-88-7	MnCl ₂ * 2 H ₂ 0	100 g	HDPE bottle	1.05934.0100
for analysis EMSURE®			1 kg	HDPE bottle	1.05934.1000
Manganese(II) chloride tetrahydrate	13446-34-9	MnCl ₂ * 4 H ₂ O	100 g	HDPE bottle	1.05927.0100
for analysis EMSURE® ACS			1 kg	HDPE bottle	1.05927.1000
Manganese(II) nitrate tetrahydrate	20694-39-7	$Mn(NO_3)_2 * 4 H_2O$	500 g	HDPE bottle	1.05940.0500
for analysis EMSURE®			1 kg	HDPE bottle	1.05940.1000
Manganese(II) sulfate monohydrate spray-dried	10034-96-5	MnSO ₄ * H ₂ O	250 g	HDPE bottle	1.05941.0250
for analysis EMSURE® ACS, Reag. Ph Eur			25 kg	Fibre carton	1.05941.9025
Manganese(II) sulfate tetrahydrate	10101-68-5	MnSO ₄ * 4 H ₂ O	1 kg	HDPE bottle	1.02786.1000
for analysis EMSURE®			25 kg	Fibre carton	1.02786.9025
Mercury for analysis and for polarography	7439-97-6	Hg	250 g	HDPE bottle	1.04403.0250
EMSURE®			1 kg	HDPE bottle	1.04403.1000
Mercury EMPLURA®	7439-97-6	Hg	250 g	HDPE bottle	1.04401.0250
			1 kg	HDPE bottle	1.04401.1000
Mercury(II) acetate	1600-27-7	Hg(CH ₃ COO) ₂	50 g	HDPE bottle	1.04410.0050
for analysis EMSURE® ACS, Reag. Ph Eur			250 g	HDPE bottle	1.04410.0250
Mercury(II) bromide	7789-47-1	HgBr ₂	50 g	HDPE bottle	1.04421.0050
for analysis EMSURE® ACS, Reag. Ph Eur			250 g	HDPE bottle	1.04421.0250
Mercury(II) chloride	7487-94-7	$HgCl_2$	50 g	HDPE bottle	1.04419.0050
for analysis EMSURE® Reag. Ph Eur, ACS			250 g	HDPE bottle	1.04419.0250
			1 kg	HDPE bottle	1.04419.1000
Mercury(II) chloride EMPLURA® fine cryst.	7487-94-7	HgCl ₂	100 g	HDPE bottle	1.04417.0100
Mercury(II) iodide red,	7774-29-0	Hgl ₂	50 g	HDPE bottle	1.04428.0050
for analysis EMSURE® ACS, Reag. Ph Eur			250 g	HDPE bottle	1.04428.0250
Mercury(II) iodide red EMPLURA®	7774-29-0	Hgl ₂	100 g	HDPE bottle	1.04420.0100
			1 kg	HDPE bottle	1.04420.1000
Mercury(II) nitrate monohydrate	7783-34-8	Hg(NO ₃) ₂ * H ₂ O	50 g	HDPE bottle	1.04439.0050
for analysis EMSURE® ACS, Reag. Ph Eur			250 g	HDPE bottle	1.04439.0250
Mercury(II) oxide red,	21908-53-2	HgO	50 g	HDPE bottle	1.04466.0050
for analysis EMSURE®			250 g	HDPE bottle	1.04466.0250
Mercury(II) sulfate	7783-35-9	HgSO₄	50 g	HDPE bottle	1.04480.0050
for analysis EMSURE® ACS			250 g	HDPE bottle	1.04480.0250
Mercury(II) sulfate EMPLURA®	7783-35-9	HgSO₄	100 g	HDPE bottle	1.04481.0100
•			250 g	HDPE bottle	1.04481.0250
			1 kg	HDPE bottle	1.04481.1000
Mercury(II) thiocyanate	592-85-8	Hg(SCN) ₂	25 g	HDPE bottle	1.04484.0025
for analysis EMSURE® Reag. Ph Eur		J = - 12	100 g	HDPE bottle	1.04484.0100

Ordering information Salts

Salts N-P

Salts IV-I					
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Nickel(II) chloride hexahydrate	7791-20-0	NiCl ₂ * 6 H ₂ O	250 g	HDPE bottle	1.06717.0250
for analysis EMSURE® ACS			1 kg	HDPE bottle	1.06717.1000
Nickel(II) nitrate hexahydrate	13478-00-7	Ni(NO ₃) ₂ * 6 H ₂ O	100 g	HDPE bottle	1.06721.0100
for analysis EMSURE® ACS			250 g	HDPE bottle	1.06721.0250
			1 kg	HDPE bottle	1.06721.1000
Nickel(II) sulfate hexahydrate	10101-97-0	NiSO ₄ * 6 H ₂ O	100 g	HDPE bottle	1.06727.0100
for analysis EMSURE® ACS			250 g	HDPE bottle	1.06727.0250
			1 kg	HDPE bottle	1.06727.1000
Potassium antimony(III) oxide tartrate trihydrate	28300-74-5	K ₂ (SbO) ₂ C ₈ H ₄ O ₁₀ * 3 H ₂ O	250 g	HDPE bottle	1.08092.0250
EMPLURA®			1 kg	HDPE bottle	1.08092.1000
Potassium bromate for analysis EMSURE®	7758-01-2	KBrO ₃	100 g	Metal can	1.04912.0100
ACS, ISO, Reag. Ph Eur			250 g	Metal can	1.04912.0250
Potassium bromide for analysis EMSURE®	7758-02-3	KBr	500 g	HDPE bottle	1.04905.0500
ACS, Reag. Ph Eur	504.00.7	K 00	F00 =	LIDDE hattle	1 04020 0500
Potassium carbonate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	584-08-7	K ₂ CO ₃	500 g	HDPE bottle	1.04928.0500
, 1857, 1567, 1188g <u></u>			1 kg	HDPE bottle	1.04928.1000
		WOLO	50 kg	Fibre carton	1.04928.9050
Potassium chlorate for analysis EMSURE®	3811-04-9	KCIO ₃	500 g	Metal can	1.04944.0500
Potassium chloride for analysis (≤ 0.005 % Br) EMSURE® ACS, ISO, Reag. Ph Eur	7447-40-7	KCI	500 g	HDPE bottle	1.04933.0500
		WO!	25 kg	Fibre carton	1.04933.9025
Potassium chloride for analysis EMSURE®	7447-40-7	KCI	250 g	HDPE bottle	1.04936.0250
			500 g	HDPE bottle	1.04936.0500
			1 kg	HDPE bottle	1.04936.1000
			5 kg	HDPE bottle	1.04936.5000
			50 kg	Fibre carton	1.04936.9050
Potassium chromate for analysis EMSURE® ACS, Reag. Ph Eur	7789-00-6	K ₂ CrO ₄	250 g	HDPE bottle	1.04952.0250
ACS, heag. Fil Eul			1 kg	HDPE bottle	1.04952.1000
Potassium cyanide for analysis EMSURE®	151-50-8	KCN	100 g	HDPE bottle	1.04967.0100
ACS, ISO, Reag. Ph Eur			250 g	HDPE bottle	1.04967.0250
			1 kg	HDPE bottle	1.04967.1000
Potassium dichromate for analysis (max. 0.000001 % Hg) EMSURE® ACS, ISO	7778-50-9	$K_2Cr_2O_7$	500 g	Glass bottle	1.04865.0500
Potassium dichromate for analysis EMSURE®	7778-50-9	$K_2Cr_2O_7$	500 g	HDPE bottle	1.04864.0500
ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.04864.1000
Potassium dihydrogen phosphate	7778-77-0	KH ₂ PO ₄	1 kg	HDPE bottle	1.04877.1000
for analysis (≤ 0.005 % Na) EMSURE®			12 kg	Plastic bucket	1.04877.9012
ACS, ISO, Reag. Ph Eur			25 kg	Fibre carton	1.04877.9025

Salts P

Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Potassium dihydrogen phosphate	7778-77-0	KH ₂ PO ₄	250 g	HDPE bottle	1.04873.0250
for analysis EMSURE® ISO			1 kg	HDPE bottle	1.04873.1000
			5 kg	HDPE bottle	1.04873.5000
			25 kg	Fibre carton	1.04873.9025
			50 kg	Fibre carton	1.04873.9050
Potassium disulfate (potassium pyrosulfate)	7790-62-7	K ₂ S ₂ O ₇	1 kg	HDPE bottle	1.05107.1000
for analysis EMSURE® ACS			5 kg	HDPE bottle	1.05107.5000
			50 kg	Plastic drum	1.05107.9050
Potassium disulfite for analysis EMSURE®	16731-55-8	K ₂ S ₂ O ₅	500 g	HDPE bottle	1.05057.0500
			1 kg	HDPE bottle	1.05057.1000
			2.5 kg	HDPE bottle	1.05057.2500
Potassium fluoride for analysis EMSURE® ACS	7789-23-3	KF	250 g	HDPE bottle	1.04994.0250
			1 kg	HDPE bottle	1.04994.1000
Potassium hexacyanoferrate(III)	13746-66-2	K ₃ [Fe(CN) ₆]	100 g	HDPE bottle	1.04973.0100
for analysis EMSURE® ACS, Reag. Ph Eur			250 g	HDPE bottle	1.04973.0250
			1 kg	HDPE bottle	1.04973.1000
Potassium hexacyanoferrate(III) EMPLURA®	13746-66-2	K ₃ [Fe(CN) ₆]	1 kg	HDPE bottle	1.04971.1000
Potassium hexacyanoferrate(II) trihydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	14459-95-1	K ₄ [Fe(CN) ₆] * 3 H ₂ O	100 g	HDPE bottle	1.04984.0100
			500 g	HDPE bottle	1.04984.0500
			50 kg	Fibre carton	1.04984.9050
Potassium hexacyanoferrate(II) trihydrate	14459-95-1	$K_4[Fe(CN)_6] * 3 H_2O$	1 kg	HDPE bottle	1.04982.1000
EMPLURA®			25 kg	Fibre carton	1.04982.9025
Potassium hexahydroxoantimonate(V) cryst. for analysis EMSURE®	12208-13-8	K[Sb(OH) ₆]	100 g	HDPE bottle	1.05110.0100
Potassium hydrogen carbonate for analysis EMSURE® ACS	298-14-6	KHCO ₃	500 g	HDPE bottle	1.04854.0500
Potassium hydrogen diiodate for analysis EMSURE®	13455-24-8	KH(IO ₃) ₂	50 g	Glass bottle	1.04867.0050
di-Potassium hydrogen phosphate anhydrous	7758-11-4	K ₂ HPO ₄	1 kg	HDPE bottle	1.05104.1000
for analysis EMSURE®			25 kg	Fibre carton	1.05104.9025
			50 kg	Fibre carton	1.05104.9050
di-Potassium hydrogen phosphate trihydrate	16788-57-1	K ₂ HO ₄ P * 3 H ₂ O	250 g	HDPE bottle	1.05099.0250
for analysis EMSURE®			1 kg	HDPE bottle	1.05099.1000
			5 kg	HDPE bottle	1.05099.5000
			50 kg	Fibre carton	1.05099.9050
Potassium hydrogen phthalate	877-24-7	C ₈ H ₅ KO ₄	250 g	HDPE bottle	1.04874.0250
for analysis EMSURE® Reag. Ph Eur			1 kg	HDPE bottle	1.04874.1000
			12 kg	Plastic bucket	1.04874.9012
Potassium hydrogen sulfate	7646-93-7	KHSO ₄	500 g	HDPE bottle	1.04885.0500
for analysis EMSURE® Reag. Ph Eur			2.5 kg	HDPE bottle	1.04885.2500

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Salts P-R

Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Potassium iodate	7758-05-6	KIO ₃	100 g	HDPE bottle	1.05051.0100
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			500 g	HDPE bottle	1.05051.0500
Potassium iodide	7681-11-0	KI	250 g	HDPE bottle	1.05043.0250
for analysis EMSURE® ISO, Reag. Ph Eur			500 g	HDPE bottle	1.05043.0500
			1 kg	HDPE bottle	1.05043.1000
			2.5 kg	HDPE bottle	1.05043.2500
			50 kg	Fibre carton	1.05043.9050
Potassium nitrate	7757-79-1	KNO ₃	500 g	HDPE bottle	1.05063.0500
or analysis EMSURE® ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.05063.1000
			5 kg	HDPE bottle	1.05063.5000
			25 kg	Fibre carton	1.05063.9025
Potassium nitrite cryst. for analysis EMSURE® ACS	7758-09-0	KNO ₂	250 g	HDPE bottle	1.05067.0250
li-Potassium oxalate monohydrate	6487-48-5	K ₂ C ₂ O ₄ * H ₂ O	250 g	HDPE bottle	1.05073.0250
for analysis EMSURE® ACS			1 kg	HDPE bottle	1.05073.1000
Potassium perchlorate for analysis EMSURE® ACS	7778-74-7	KCIO ₄	250 g	Metal can	1.05076.0250
			1 kg	Metal can	1.05076.1000
Potassium permanganate for analysis (max. 0.000005 % Hg) EMSURE® ACS	7722-64-7	KMnO ₄	1 kg	Glass bottle	1.05084.1000
Potassium permanganate	7722-64-7	KMnO ₄	250 g	Glass bottle	1.05082.0250
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	Glass bottle	1.05082.1000
Potassium permanganate cryst. EMPLURA®	7722-64-7	KMnO ₄	1 kg	Glass bottle	1.05080.1000
			5 kg	Metal can	1.05080.5000
			50 kg	Steel drum	1.05080.9050
Potassium peroxodisulfate for analysis (≤ 0.001 % N) EMSURE® ACS, Reag. Ph Eur	7727-21-1	$K_2S_2O_8$	250 g	HDPE bottle	1.05092.0250
Potassium peroxodisulfate for analysis EMSURE®	7727-21-1	$K_2S_2O_8$	250 g	HDPE bottle	1.05091.0250
			1 kg	HDPE bottle	1.05091.1000
Potassium sodium tartrate tetrahydrate	6381-59-5	C ₄ H ₄ KNaO ₆ * 4 H ₂ O	500 g	HDPE bottle	1.08087.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.08087.1000
			5 kg	HDPE bottle	1.08087.5000
			12 kg	Plastic bucket	1.08087.9012
			50 kg	Fibre carton	1.08087.9050
Potassium sulfate	7778-80-5	K ₂ SO ₄	500 g	HDPE bottle	1.05153.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.05153.1000
			5 kg	HDPE bottle	1.05153.5000
			25 kg	Fibre carton	1.05153.9025
Potassium sulfide small lumps	39365-88-3		250 g	HDPE bottle	1.05134.0250
for analysis EMSURE®			1 kg	HDPE bottle	1.05134.1000
Potassium thiocyanate	333-20-0	KSCN	250 g	HDPE bottle	1.05125.0250
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.05125.1000
			50 kg	Fibre carton	1.05125.9050
Potassium thiocyanate EMPLURA®	333-20-0	KSCN	1 kg	HDPE bottle	1.05124.1000

Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Silver nitrate	7761-88-8	$AgNO_3$	25 g	HDPE bottle	1.01512.0025
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			100 g	HDPE bottle	1.01512.0100
			250 g	HDPE bottle	1.01512.0250
			1 kg	HDPE bottle	1.01512.1000
Sodium acetate anhydrous	127-09-3	CH ₃ COONa	250 g	HDPE bottle	1.06268.0250
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.06268.1000
			2.5 kg	HDPE bottle	1.06268.2500
			12 kg	Plastic bucket	1.06268.9012
			25 kg	Fibre carton	1.06268.9025
Sodium acetate trihydrate	6131-90-4	CH ₃ COONa * 3 H ₂ O	500 g	HDPE bottle	1.06267.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.06267.1000
			5 kg	HDPE bottle	1.06267.5000
			50 kg	Fibre carton	1.06267.9050
Sodium ammonium hydrogen phosphate tetrahydrate for analysis EMSURE®	7783-13-3	NaNH ₄ HPO ₄ * 4 H ₂ O	1 kg	HDPE bottle	1.06682.1000
Sodium carbonate anhydrous	497-19-8	Na ₂ CO ₃	1 kg	HDPE bottle	1.06393.1000
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			50 kg	Fibre carton	1.06393.9050
Sodium carbonate anhydrous	497-19-8	Na ₂ CO ₃	500 g	HDPE bottle	1.06392.0500
for analysis EMSURE® ISO			1 kg	HDPE bottle	1.06392.1000
			5 kg	HDPE bottle	1.06392.5000
			25 kg	Fibre carton	1.06392.9025
			50 kg	Fibre carton	1.06392.9050
Sodium carbonate decahydrate	6132-02-1	Na ₂ CO ₃ * 10 H ₂ O	1 kg	HDPE bottle	1.06391.1000
for analysis EMSURE® ISO, Reag. Ph Eur			5 kg	HDPE bottle	1.06391.5000
Sodium chlorate EMPLURA®	7775-09-9	NaClO ₃	1 kg	HDPE bottle	1.06420.1000
			50 kg	Plastic drum	1.06420.9050
Sodium chloride	7647-14-5	NaCl	500 g	HDPE bottle	1.06404.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.06404.1000
			5 kg	HDPE bottle	1.06404.5000
			12 kg	Plastic bucket	1.06404.9012
			25 kg	Fibre carton	1.06404.9025
			50 kg	Fibre carton	1.06404.9050
tri-Sodium citrate dihydrate	6132-04-3	C ₆ H ₅ Na ₃ O ₇ * 2 H ₂ O	500 g	HDPE bottle	1.06448.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.06448.1000
			5 kg	HDPE bottle	1.06448.5000
			25 kg	Fibre carton	1.06448.9025
Sodium cyanide EMPLURA®	143-33-9	NaCN	1 kg	HDPE bottle	1.06437.1000
Sodium dichromate dihydrate	7789-12-0	Na ₂ Cr ₂ O ₇ * 2 H ₂ O	250 g	HDPE bottle	1.06336.0250
for analysis EMSURE® ACS			1 kg	HDPE bottle	1.06336.1000

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Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Sodium dihydrogen phosphate dihydrate	13472-35-0	NaH ₂ PO ₄ * 2 H ₂ O	250 g	HDPE bottle	1.06342.0250
for analysis EMSURE® Reag. Ph Eur			1 kg	HDPE bottle	1.06342.1000
			2.5 kg	HDPE bottle	1.06342.2500
			25 kg	Fibre carton	1.06342.9025
Sodium dihydrogen phosphate monohydrate	10049-21-5	NaH ₂ PO ₄ * H ₂ O	500 g	HDPE bottle	1.06346.0500
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.06346.1000
			12 kg	Plastic bucket	1.06346.9012
			25 kg	Fibre carton	1.06346.9025
			50 kg	Fibre carton	1.06346.9050
tetra-Sodium diphosphate decahydrate	13472-36-1	Na ₄ P ₂ O ₇ * 10 H ₂ O	500 g	HDPE bottle	1.06591.0500
for analysis EMSURE® ACS, Reag. Ph Eur			2.5 kg	HDPE bottle	1.06591.2500
			50 kg	Fibre carton	1.06591.9050
Sodium disulfite (sodium metabisulfite)	7681-57-4	$Na_2S_2O_5$	100 g	HDPE bottle	1.06528.0100
for analysis EMSURE® ACS, Reag. Ph Eur			500 g	HDPE bottle	1.06528.0500
			1 kg	HDPE bottle	1.06528.1000
			5 kg	HDPE bottle	1.06528.5000
			50 kg	Fibre carton	1.06528.9050
Sodium dithionite	7775-14-6	$Na_2S_2O_4$	500 g	Metal can	1.06507.0500
for analysis EMSURE®			2.5 kg	Metal can	1.06507.2500
Sodium dithionite EMPLURA®	7775-14-6	$Na_2S_2O_4$	1 kg	Metal can	1.06505.1000
			50 kg	Steel drum	1.06505.9050
Sodium fluoride	7681-49-4	NaF	250 g	HDPE bottle	1.06449.0250
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.06449.1000
			50 kg	Fibre carton	1.06449.9050
Sodium formate	141-53-7	HC00Na	500 g	HDPE bottle	1.06443.0500
for analysis EMSURE® ACS, Reag. Ph Eur			50 kg	Fibre carton	1.06443.9050
Sodium hexanitrocobaltate(III) [sodium cobalt(III)	13600-98-1	Na ₃ [Co(NO ₂) ₆]	25 g	HDPE bottle	1.02521.0025
nitrite] for analysis EMSURE® ACS, Reag. Ph Eur			100 g	HDPE bottle	1.02521.0100
Sodium hydrogen carbonate	144-55-8	NaHCO ₃	500 g	HDPE bottle	1.06329.0500
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.06329.1000
			5 kg	HDPE bottle	1.06329.5000
			12 kg	Plastic bucket	1.06329.9012
			25 kg	Plastic drum	1.06329.9025
			50 kg	Fibre carton	1.06329.9050
di-Sodium hydrogen phosphate anhydrous	7558-79-4	Na ₂ HPO ₄	500 g	HDPE bottle	1.06559.0500
(~18 – 80 mesh ASTM) EMSURE®			25 kg	Fibre carton	1.06559.9025
di-Sodium hydrogen phosphate anhydrous	7558-79-4	Na ₂ HPO ₄	500 g	HDPE bottle	1.06586.0500
for analysis EMSURE® ACS, Reag. Ph Eur			1 kg	HDPE bottle	1.06586.1000
			2.5 kg	HDPE bottle	1.06586.2500
			12 kg	Plastic bucket	1.06586.9012
			50 kg	Fibre carton	1.06586.9050

Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
di-Sodium hydrogen phosphate dihydrate	10028-24-7	Na ₂ HPO ₄ * 2 H ₂ O	500 g	HDPE bottle	1.06580.0500
for analysis EMSURE®			1 kg	HDPE bottle	1.06580.1000
			5 kg	HDPE bottle	1.06580.5000
			25 kg	Fibre carton	1.06580.9025
			50 kg	Fibre carton	1.06580.9050
di-Sodium hydrogen phosphate dodecahydrate	10039-32-4	Na ₂ HPO ₄ * 12 H ₂ O	500 g	HDPE bottle	1.06579.0500
for analysis EMSURE® ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.06579.1000
			5 kg	HDPE bottle	1.06579.5000
			25 kg	Fibre carton	1.06579.9025
di-Sodium hydrogen phosphate heptahydrate	7782-85-6	Na ₂ HPO ₄ * 7 H ₂ O	1 kg	HDPE bottle	1.06575.1000
for analysis EMSURE® ACS			25 kg	Fibre carton	1.06575.9025
Sodium hydrogen sulfate monohydrate for analysis EMSURE®	10034-88-5	NaHSO ₄ * H ₂ O	500 g	HDPE bottle	1.06352.0500
Sodium hypochlorite solution			2.5 l	HDPE bottle	1.05614.2500
(6 - 14 % active chlorine) EMPLURA®			25 I	Plastic can	1.05614.9025
Sodium iodate for analysis EMSURE®	7681-55-2	NaIO ₃	100 g	Glass bottle	1.06525.0100
Sodium iodide for analysis EMSURE® ACS, Reag. Ph Eur	7681-82-5	Nal	100 g	HDPE bottle	1.06523.0100
			250 g	HDPE bottle	1.06523.0250
			1 kg	HDPE bottle	1.06523.1000
Sodium metaperiodate	7790-28-5	NaIO ₄	50 g	HDPE bottle	1.06597.0050
for analysis EMSURE® ACS, Reag. Ph Eur			250 g	HDPE bottle	1.06597.0250
			1 kg	HDPE bottle	1.06597.1000
Sodium molybdate dihydrate	10102-40-6	6 Na ₂ MoO ₄ * 2 H ₂ O	100 g	HDPE bottle	1.06521.0100
for analysis EMSURE®			250 g	HDPE bottle	1.06521.0250
			1 kg	HDPE bottle	1.06521.1000
Sodium molybdate dihydrate EMPLURA®	10102-40-6	6 Na ₂ MoO ₄ * 2 H ₂ O	1 kg	HDPE bottle	1.06524.1000
			50 kg	Fibre carton	1.06524.9050
Sodium nitrate	7631-99-4	NaNO ₃	500 g	HDPE bottle	1.06537.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.06537.1000
			12 kg	Plastic bucket	1.06537.9012
			25 kg	Fibre carton	1.06537.9025
Sodium nitrate cryst. EMPLURA®	7631-99-4	NaNO ₃	1 kg	HDPE bottle	1.06535.1000
			50 kg	Fibre carton	1.06535.9050
Sodium nitrite	7632-00-0	NaNO ₂	100 g	HDPE bottle	1.06549.0100
for analysis EMSURE® ACS, Reag. Ph Eur			500 g	HDPE bottle	1.06549.0500
			12 kg	Plastic bucket	1.06549.9012
di-Sodium oxalate for analysis EMSURE®	62-76-0	$Na_2C_2O_4$	250 g	HDPE bottle	1.06557.0250
			1 kg	HDPE bottle	1.06557.1000
Sodium perchlorate monohydrate	7791-07-3	NaClO ₄ * H ₂ O	100 g	Metal can	1.06564.0100
for analysis EMSURE®			500 g	Metal can	1.06564.0500
			25 kg	Steel drum	1.06564.9025

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Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Sodium peroxidisulfate for analysis EMSURE®	7775-27-1	Na ₂ S ₂ O ₈	500 g	HDPE bottle	1.06609.0500
			1 kg	HDPE bottle	1.06609.1000
			12 kg	Plastic bucket	1.06609.9012
			25 kg	Fibre carton	1.06609.9025
tri-Sodium phosphate dodecahydrate	10101-89-0	Na ₃ PO ₄ * 12 H ₂ O	1 kg	HDPE bottle	1.06572.1000
for analysis EMSURE®			5 kg	HDPE bottle	1.06572.5000
			25 kg	Fibre carton	1.06572.9025
ri-Sodium phosphate dodecahydrate	10101-89-0	O Na ₃ PO ₄ * 12 H ₂ O	1 kg	HDPE bottle	1.06578.1000
or analysis EMSURE® ACS, Reag. Ph Eur			5 kg	HDPE bottle	1.06578.5000
			12 kg	Plastic bucket	1.06578.9012
			50 kg	Fibre carton	1.06578.9050
Sodium polyphosphate EMPLURA® (Graham's salt)	10361-03-2	$(NaPO_3)_n / n = \sim 25$	1 kg	HDPE bottle	1.06529.1000
			5 kg	HDPE bottle	1.06529.5000
			50 kg	Fibre carton	1.06529.9050
Sodium salicylate for analysis EMSURE®	54-21-7	HOC ₆ H₄COONa	250 g	HDPE bottle	1.06601.0250
			1 kg	HDPE bottle	1.06601.1000
Sodium sulfate anhydrous coarse granules for analysis 0.63 – 2.0 mm EMSURE® ACS	7757-82-6	Na ₂ SO ₄	500 g	HDPE bottle	1.06637.0500
			1 kg	HDPE bottle	1.06637.1000
			25 kg	Fibre carton	1.06637.9025
Sodium sulfate anhydrous	7757-82-6	Na ₂ SO ₄	500 g	HDPE bottle	1.06649.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.06649.1000
			5 kg	HDPE bottle	1.06649.5000
			25 kg	Fibre carton	1.06649.9025
Sodium sulfate anhydrous granulated for organic trace analysis EMSURE®	7757-82-6	Na ₂ SO ₄	500 g	Glass bottle	1.06639.0500
Sodium sulfate decahydrate	7727-73-3	Na ₂ SO ₄ * 10 H ₂ O	1 kg	HDPE bottle	1.06648.1000
for analysis EMSURE® ACS, Reag. Ph Eur			25 kg	Fibre carton	1.06648.9025
Sodium Sulfite anhydrous	7757-83-7	Na ₂ SO ₃	500 g	HDPE bottle	1.06657.0500
for analysis EMSURE® Reag. Ph Eur			1 kg	HDPE bottle	1.06657.1000
			5 kg	HDPE bottle	1.06657.5000
			50 kg	Fibre carton	1.06657.9050
di-Sodium tartrate dihydrate	6106-24-7	C ₄ H ₄ Na ₂ O ₆ * 2 H ₂ O	250 g	HDPE bottle	1.06663.0250
for analysis EMSURE®			1 kg	HDPE bottle	1.06663.1000
Sodium thiocyanate EMPLURA®	540-72-7	NaSCN	2.5 kg	HDPE bottle	1.06627.2500
Sodium thiosulfate anhydrous EMPLURA®	7772-98-7	$Na_2O_3S_2$	250 g	HDPE bottle	1.06512.0250
			2.5 kg	HDPE bottle	1.06512.2500
			25 kg	Fibre carton	1.06512.9025
			50 kg	Fibre carton	1.06512.9050
Sodium thiosulfate pentahydrate	10102-17-7	Na ₂ O ₃ S ₂ * 5 H ₂ O	500 g	HDPE bottle	1.06516.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur		-	1 kg	HDPE bottle	1.06516.1000
			5 kg	HDPE bottle	1.06516.5000
			25 kg	Fibre carton	1.06516.9025

Salts S-Z

Salts 5-Z					
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Sodium tungstate dihydrate	10213-10-2	Na ₂ WO ₄ * 2 H ₂ O	250 g	HDPE bottle	1.06673.0250
for analysis EMSURE®			1 kg	HDPE bottle	1.06673.1000
odium tungstate dihydrate EMPLURA®	10213-10-2	Na ₂ WO ₄ * 2 H ₂ O	1 kg	HDPE bottle	1.06672.1000
			25 kg	Fibre carton	1.06672.9025
Strontium chloride hexahydrate	10025-70-4	SrCl ₂ * 6 H ₂ O	250 g	HDPE bottle	1.07865.0250
for analysis EMSURE® ACS			1 kg	HDPE bottle	1.07865.1000
Strontium nitrate for analysis EMSURE®	10042-76-9	Sr(NO ₃) ₂	250 g	HDPE bottle	1.07872.0250
Tin(IV) chloride EMPLURA®	7646-78-8	SnCl ₄	500 ml	Glass bottle	1.07810.0500
Tin(II) chloride dihydrate for analysis EMSURE®	10025-69-1	SnCl ₂ * 2 H ₂ 0	100 g	Glass bottle	1.07815.0100
ACS, ISO, Reag. Ph Eur			250 g	Glass bottle	1.07815.0250
			1 kg	Glass bottle	1.07815.1000
Tin(II) chloride dihydrate	10025-69-1	SnCl ₂ * 2 H ₂ 0	250 g	Glass bottle	1.07814.0250
for analysis (max. 0.000001 % Hg) EMSURE®			2.5 kg	Glass bottle	1.07814.2500
Zinc acetate dihydrate	5970-45-6	(CH ₃ C00) ₂ Zn * 2 H ₂ 0	250 g	HDPE bottle	1.08802.0250
for analysis EMSURE® ACS			1 kg	HDPE bottle	1.08802.1000
Zinc chloride	7646-85-7	ZnCl ₂	250 g	HDPE bottle	1.08816.0250
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.08816.1000
			25 kg	Plastic drum	1.08816.9025
Zinc iodide for analysis EMSURE®	10139-47-6	Znl ₂	100 g	Glass bottle	1.08828.0100
Zinc nitrate tetrahydrate for analysis EMSURE®	19154-63-3	Zn(NO ₃) ₂ * 4 H ₂ O	1 kg	HDPE bottle	1.08833.1000
Zinc sulfate heptahydrate	7446-20-0	ZnSO ₄ * 7 H ₂ O	500 g	HDPE bottle	1.08883.0500
for analysis EMSURE® ACS, ISO, Reag. Ph Eur			1 kg	HDPE bottle	1.08883.1000
			5 kg	HDPE bottle	1.08883.5000
			50 kg	Fibre carton	1.08883.9050



► For more details about our packaging, please see "Packaging and Safe Handling" on page 42

Solvents



EMSURE® | EMPARTA® | EMPLURA® Distinguished by exceptional quality and reliability, our solvents undergo strict controls and continuous development to meet growing regulations. As your reliable, one-stop supplier, we offer a complete solution, including solvents, documentation, secure packaging and withdrawal systems.

${\sf EMSURE}^{ ext{@}}$ for analysis ACS, ISO, Reag. Ph Eur	Premium grade
► For more information please have a look at page 20	
EMPARTA® for analysis ACS	Standard grade
For more information please have a look at page 32	
EMPLURA®	Basic grade
For more information please have a look at page 36	

Ordering information Solvents

Solvents A-B

	SOIVEITES / L							
	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
A	Acetone for analysis EMSURE® ACS, ISO,	67-64-1	≥ 99.8 %	≤ 0.0005 %	≤ 0.05 %	1	Glass bottle	1.00014.1000
	Reag. Ph Eur					1	HDPE bottle	1.00014.1011
						2.5	Glass bottle	1.00014.2500
						2.5	HDPE bottle	1.00014.2511
						4	Glass bottle	1.00014.4000
						5 l	HDPE bottle	1.00014.5000
						10 l	Stainless steel drum	1.00014.6010
						25 l	Stainless steel drum	1.00014.6025
						190 l	Stainless steel drum	1.00014.6190
						180 l	Metal drum	1.00014.9180
	Acetone for analysis EMPARTA® ACS	67-64-1	≥ 99.5 %	≤ 0.001 %	≤ 0.5 %	2.5 l	HDPE bottle	1.07021.2511
						4 I	Glass bottle	1.07021.4000
	Acetone EMPLURA®	67-64-1	≥ 99.0 %	≤ 0.004 %	≤ 0.3 %	1 l	HDPE bottle	8.22251.1000
						2.5	HDPE bottle	8.22251.2500
						25 l	Metal drum	8.22251.9025
	Acetonitrile for analysis EMSURE® ACS,	75-05-8	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	1 l	Glass bottle	1.00003.1000
	Reag. Ph Eur					2.5 l	Glass bottle	1.00003.2500
						4	Glass bottle	1.00003.4000
						10 l	Stainless steel drum	1.00003.6010
						25 l	Stainless steel drum	1.00003.6025
						25 l	Metal drum	1.00003.9025
	Acetonitrile for analysis EMPARTA® ACS	75-05-8	≥ 99.5 %	≤ 0.005 %	≤ 0.3 %	2.5 l	Glass bottle	1.07031.2500
						4 I	Glass bottle	1.07031.4000
	Acetonitrile EMPLURA®	75-05-8	≥ 99.0 %	≤ 0.005 %	≤ 0.5 %	1 I	Glass bottle	1.15500.1000
						2.5 l	Glass bottle	1.15500.2500
						4 I	Glass bottle	1.15500.4000
						25 l	Stainless steel drum	1.15500.6025
						190 l	Metal drum	1.15500.9190
	Acetylacetone for analysis EMSURE®	123-54-6	≥ 99.0 %		≤ 0.3 %	100 ml	Glass bottle	1.09600.0100
						500 ml	Glass bottle	1.09600.0500
	n-Amyl alcohol (Pentan-1-ol) for analysis	71-41-0	≥ 98.5 %	≤ 0.005 %	≤ 0.1 %	1 l	Glass bottle	1.00975.1000
	EMSURE®					2.5	Glass bottle	1.00975.2500
	tert-Amyl alcohol EMPLURA®	75-85-4	≥ 99.0 %			1	HDPE bottle	8.06193.1000
	Aniline for analysis EMSURE®	62-53-3	≥ 99.5 %		≤ 0.1 %	1	Glass bottle	1.01261.1000
	Benzene for analysis EMSURE® ACS, ISO,	71-43-2	≥ 99.7 %	≤ 0.001 %	≤ 0.03 %	1	Glass bottle	1.01783.1000
	Reag. Ph Eur					2.5	Glass bottle	1.01783.2500
_						4	Glass bottle	1.01783.4000

Solvents B-C

	Solvents B-C							
п	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
В	Benzyl alcohol for analysis EMSURE®	100-51-6	≥ 99.5 %		≤ 0.1 %	1	Glass bottle	1.09626.1000
						2.5	Glass bottle	1.09626.2500
						4 l	Glass bottle	1.09626.4000
						25 l	Stainless steel drum	1.09626.6025
	1-Butanol for analysis EMSURE®	71-36-3	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	1	Glass bottle	1.01990.1000
	ACS, ISO, Reag. Ph Eur					2.5	Glass bottle	1.01990.2500
						4	Glass bottle	1.01990.4000
						25 l	Stainless steel drum	1.01990.6025
	1-Butanol EMPLURA®	71-36-3	≥ 99.0 %	≤ 0.004 %	≤ 0.2 %	2.5	HDPE bottle	8.22262.2500
	2-Butanol for analysis EMSURE®	78-92-2	≥ 99.0 %	≤ 0.001 %	≤ 0.2 %	1	Glass bottle	1.09630.1000
						2.5 l	Glass bottle	1.09630.2500
	2-Butanol EMPLURA®	78-92-2			≤ 0.2 %	2.5	HDPE bottle	8.22263.2500
	tert-Butanol for analysis EMSURE® ACS,	75-65-0	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	500 ml	Glass bottle	1.09629.0500
	Reag. Ph Eur					5 l	Aluminum bottle	1.09629.5000
	tert-Butanol EMPLURA®	75-65-0	≥ 99.0 %		≤ 0.1 %	1 l	Glass bottle	8.22264.1000
						5 l	Aluminum bottle	8.22264.5000
						25 l	Plastic can	8.22264.9025
	n-Butyl acetate for analysis EMSURE®	123-86-4	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	1	Glass bottle	1.09652.1000
						2.5 l	Glass bottle	1.09652.2500
						4 l	Glass bottle	1.09652.4000
	n-Butyl acetate EMPLURA®	123-86-4	≥ 99.0 %	≤ 0.001 %		2.5	Glass bottle	1.01974.2500
						25 l	Stainless steel drum	1.01974.6025
	tert-Butyl methyl ether	1634-04-4	≥ 99.5 %	≤ 0.001 %	≤ 0.03 %	1	Glass bottle	1.01849.1000
	for analysis EMSURE® ACS					2.5	Glass bottle	1.01849.2500
						4	Glass bottle	1.01849.4000
	tert-Butyl methyl ether EMPLURA®	1634-04-4	≥ 99.0 %	≤ 0.005 %	≤ 0.05 %	2.5	Glass bottle	1.01843.2500
						25 l	Stainless steel drum	1.01843.6025
						10 l	Metal drum	1.01843.9011
						190 l	Metal drum	1.01843.9190
С	Chloroform for analysis EMSURE® ACS, ISO, Reag. Ph Eur	67-66-3	99.0 - 99.4 %	% ≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.02445.1000
						2.5	Glass bottle	1.02445.2500
						4	Glass bottle	1.02445.4000
						10 l	Stainless steel drum	1.02445.6010
						25 l	Stainless steel drum	1.02445.6025
						190 l	Metal drum	1.02445.9190
	Chloroform for analysis EMPARTA® ACS	67-66-3	99.0 - 99.4 %	≤ 0.001 %	≤ 0.01 %	2.5	Glass bottle	1.07024.2500
						4	Glass bottle	1.07024.4000
	Chloroform EMPLURA®	67-66-3	≥ 99 %	≤ 0.001 %	≤ 0.1 %	1	Glass bottle	8.22265.1000
						2.5	Glass bottle	8.22265.2500

Ordering information Solvents

Solvents C-D

Solveiles C D							
Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
Cyclohexane for analysis EMSURE®	110-82-7	≥ 99.5 %	≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.09666.1000
ACS, ISO, Reag. Ph Eur					2.5	Glass bottle	1.09666.2500
					2.5	HDPE bottle	1.09666.251
					4	Glass bottle	1.09666.4000
					10	Stainless steel drum	1.09666.6010
					25	Stainless steel drum	1.09666.602
					190	Metal drum	1.09666.919
Cyclohexane EMPLURA®	110-82-7	≥ 99.0 %		≤ 0.05 %	1	Glass bottle	1.02832.100
					2.5	Glass bottle	1.02832.250
					25 I	Stainless steel drum	1.02832.602
					190 l	Metal drum	1.02832.919
Cyclohexanone for analysis EMPARTA® ACS	108-94-1	≥ 99.0 %	≤ 0.05 %	≤ 0.05 %	4 I	Glass bottle	1.07061.400
Cyclohexanone EMPLURA®	108-94-1	≥ 99.0 %		≤ 0.2 %	1 l	Glass bottle	1.02888.100
					2.5	Glass bottle	1.02888.250
					25 I	Stainless steel drum	1.02888.602
					190 l	Metal drum	1.02888.919
Cyclopentyl methyl ether EMPLURA®	5614-37-9	≥ 99.0 %		≤ 0.2 %	1	Glass bottle	1.08293.100
					2.5	Glass bottle	1.08293.250
					4 I	Glass bottle	1.08293.400
1,2-Dichlorobenzene for extraction analysis EMSURE®	95-50-1	≥ 99.0 %		≤ 0.01 %	2.5	Glass bottle	1.02930.250
1,2-Dichloroethane for analysis EMPARTA® ACS	107-06-2	≥ 99.0 %	≤ 0.002 %	≤ 0.03 %	4	Glass bottle	1.07058.400
1,2-Dichloroethane EMPLURA®	107-06-2	≥ 99.5 %	≤ 0.002 %	≤ 0.03 %	1	Glass bottle	1.00955.100
					2.5	Glass bottle	1.00955.250
					190 l	Metal drum	1.00955.919
Dichloromethane for analysis EMSURE® ACS, ISO, Reag. Ph Eur	75-09-2	≥ 99.8 %	≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.06050.100
					2.5	Glass bottle	1.06050.250
					4 I	Glass bottle	1.06050.400
					10 I	Stainless steel drum	1.06050.601
					25 l	Stainless steel drum	1.06050.602
					190 l	Metal drum	1.06050.919
Dichloromethane for analysis EMPARTA®	75-09-2	≥ 99.5 %	≤ 0.002 %	≤ 0.02 %	2.5	Glass bottle	1.07020.250
ACS					4 I	Glass bottle	1.07020.400
Dichloromethane EMPLURA®	75-09-2	≥ 99.0 %	≤ 0.002 %	≤ 0.1 %	1 I	Glass bottle	8.22271.100
					2.5	Glass bottle	8.22271.250
					25 l	Metal drum	8.22271.902
Diethanolamine for analysis EMSURE®	111-42-2	≥ 99.5 %		≤ 0.25 %	1	HDPE bottle	1.16205.100
Diethanolamine for analysis EMSURE®	111-42-2	≥ 99.5 %		≤ 0.25 %	1 l	HDPE bottle	1.1620

Solvents D

Solvents D							
Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
Diethyl ether for analysis EMSURE®	60-29-7	≥ 99.7 %	≤ 0.0005 %	≤ 0.03 %	1	Glass bottle	1.00921.1000
ACS, ISO, Reag. Ph Eur					2.5	Glass bottle	1.00921.2500
					4 I	Glass bottle	1.00921.4000
					5 l	Aluminum bottle	1.00921.5000
					25 I	Stainless steel drum	1.00921.6025
					190 l	Stainless steel drum	1.00921.6190
					190 l	Metal drum	1.00921.9190
Diethyl ether for analysis EMPARTA® ACS	60-29-7	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	2.5	Glass bottle	1.07026.2500
					4 I	Glass bottle	1.07026.4000
					5 l	Aluminum bottle	1.07026.5000
thyl ether EMPLURA®	60-29-7	≥ 99.0 %		≤ 0.2 %	1	Glass bottle	1.00923.1000
					5 l	Aluminum bottle	1.00923.5000
					25 l	Stainless steel drum	1.00923.6025
Diethyl ether for analysis,		≥ 98.0 %	≤ 0.001 %	≤ 0.5 %	4	Glass bottle	1.07062.4000
Ethanol stabilized EMPARTA® ACS					5 l	Aluminum bottle	1.07062.5000
Diisopropyl ether for analysis EMSURE®	108-20-3	≥ 99.0 %	≤ 0.005 %	≤ 0.05 %	1	Glass bottle	1.00867.1000
ACS, Reag. Ph Eur					2.5	Glass bottle	1.00867.2500
					4	Glass bottle	1.00867.4000
					10 l	Stainless steel drum	1.00867.6010
N,N-Dimethylformamide	68-12-2	≥ 99.8 %	≤ 0.001 %	≤ 0.1 %	1	Glass bottle	1.03053.1000
for analysis EMSURE®					1 l	HDPE bottle	1.03053.1011
ACS, ISO, Reag. Ph Eur					2.5	Glass bottle	1.03053.2500
					2.5	HDPE bottle	1.03053.2511
					4	Glass bottle	1.03053.4000
					25 l	Stainless steel drum	1.03053.6025
N,N-Dimethylformamide EMPARTA®	68-12-2	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	1	Glass bottle	1.03034.1000
				,	2.5	Glass bottle	1.03034.2500
					2.5	HDPE bottle	1.03034.2511
					4	Glass bottle	1.03034.4000
					25 l	Stainless steel drum	1.03034.6025
					190 l	Metal drum	1.03034.9190
N,N-Dimethylformamide EMPLURA®	68-12-2	≥ 99.0 %		≤ 0.1 %	1 l	HDPE bottle	8.22275.1000
					2.5	HDPE bottle	8.22275.2500
					25 l	Stainless steel drum	8.22275.6025
Dimethyl sulfoxide	67-68-5	≥ 99.9 %	≤ 0.001 %	≤ 0.1 %	1 l	Glass bottle	1.02952.1000
for analysis EMSURE® ACS					1 l	HDPE bottle	1.02952.1011
					2.5 l	Glass bottle	1.02952.2500
					2.5	HDPE bottle	1.02952.2511
					4	Glass bottle	1.02952.4000

Ordering information Solvents

Solvents D-E

Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
Dimethyl sulfoxide	67-68-5	≥ 99.5 %	≤ 0.01 %	≤ 0.1 %	2.5	Glass bottle	1.07046.2500
for analysis EMPARTA® ACS					4	Glass bottle	1.07046.4000
Dimethyl sulfoxide EMPLURA®	67-68-5	≥ 99.0 %		≤ 0.2 %	1 l	Glass bottle	1.16743.1000
					2.5	HDPE bottle	1.16743.2511
					25 l	Stainless steel drum	1.16743.6025
1,4-Dioxane for analysis EMSURE®	123-91-1	≥ 99.5 %	≤ 0.001 %	≤ 0.05 %	250 ml	Glass bottle	1.09671.0250
ACS, ISO				,	1 l	Glass bottle	1.09671.1000
					2.5	Glass bottle	1.09671.2500
					25 l	Stainless steel drum	1.09671.6025
1,4-Dioxane EMPLURA®	123-91-1	≥ 99.0 %		≤ 0.1 %	1	Glass bottle	1.03115.1000
					2.5	Glass bottle	1.03115.2500
					25 l	Stainless steel drum	1.03115.6025
					190 l	Metal drum	1.03115.9191
Ethanol 96 % EMSURE® Reag. Ph Eur	64-17-5	95.1 - 96.9 %	o ≤ 25 mg/l		500 ml	Glass bottle	1.59010.0500
					2.5	Glass bottle	1.59010.2500
Ethanol 70 % (v/v) EMPLURA®		≥ 99 %		≤ 0.1 %	4	Glass bottle	1.59012.4000
Ethanol absolute for analysis EMSURE®	64-17-5	≥ 99.9 %	≤ 0.0005 %	≤ 0.1 %	1 l	Glass bottle	1.00983.1000
ACS, ISO, Reag. Ph Eur					1	HDPE bottle	1.00983.1011
					2.5	Glass bottle	1.00983.2500
					2.5	HDPE bottle	1.00983.2511
				,	4 I	Glass bottle	1.00983.4000
					5 l	HDPE bottle	1.00983.5000
					10 l	Stainless steel drum	1.00983.6010
					25 l	Stainless steel drum	1.00983.6025
					180 l	Metal drum	1.00983.9180
Ethanol absolute for analysis EMPARTA®	64-17-5	≥ 99.5 %	≤ 0.001 %	≤ 0.2 %	2.5	HDPE bottle	1.07017.2511
ACS					4	Glass bottle	1.07017.4000
					25 l	Metal drum	1.07017.9026
Ethanol absolute EMPLURA®	64-17-5	≥ 99.5 %	≤ 0.0025 %	≤ 0.2 %	1	HDPE bottle	8.18760.1000
					2.5	HDPE bottle	8.18760.2500
					25 l	Metal drum	8.18760.9025
					180 l	Metal drum	8.18760.9180
Ethanol absolute denatured with 1 % MEK and 0.001 % Bitrex for analysis EMSURE®	64-17-5	≥ 99.5 %	≤ 0.002 %	≤ 0.1 %	2.5 l	HDPE bottle	1.02428.2500
Ethanol denatured with about 1 % Methyl	64-17-5	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	1 l	HDPE bottle	1.00974.1011
ethyl ketone for analysis EMSURE®					2.5	Glass bottle	1.00974.2500
					2.5	HDPE bottle	1.00974.2511
					4 I	Glass bottle	1.00974.4000
					25 l	Stainless steel drum	
Ethanolamine for analysis EMSURE®	141-43-5	≥ 99.5 %		≤ 0.2 %	1	Glass bottle	1.00845.1000
,					2.5	Glass bottle	1.00845.2500

Solvents E

	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
	Ethyl acetate for analysis EMSURE® ACS,	141-78-6	≥ 99.5 %	≤ 0.001 %	≤ 0.05 %	1	HDPE bottle	1.09623.1000
	ISO, Reag. Ph Eur					2.5	Glass bottle	1.09623.2500
						2.5	HDPE bottle	1.09623.2511
						4	Glass bottle	1.09623.4000
						10 I	Stainless steel drum	1.09623.6010
						25 I	Stainless steel drum	1.09623.6025
						25 I	Metal drum	1.09623.9026
						180 l	Metal drum	1.09623.9181
	Ethyl acetate for analysis EMPARTA® ACS	141-78-6	≥ 99.5 %	≤ 0.003 %	≤ 0.2 %	2.5	Glass bottle	1.07048.2500
						4	Glass bottle	1.07048.4000
	Ethyl acetate EMPLURA®	141-78-6	≥ 99.5 %	≤ 0.003 %	≤ 0.1 %	2.5	HDPE bottle	8.22277.2500
						5 l	HDPE bottle	8.22277.5000
	Ethylene glycol for analysis EMSURE®	107-21-1	≥ 99.5 %		≤ 0.1 %	1 l	HDPE bottle	1.09621.1000
	Reag. Ph Eur, Reag. USP					2.5	HDPE bottle	1.09621.2500
						4	Glass bottle	1.09621.4000
						10 I	Stainless steel drum	1.09621.6010
						25 l	Stainless steel drum	1.09621.6025
						180 l	Metal drum	1.09621.9180
	Ethylene glycol EMPLURA®	107-21-1	≥ 99.0 %		≤ 0.3 %	1 l	HDPE bottle	1.00949.1000
						2.5	HDPE bottle	1.00949.2500
						25 I	Stainless steel drum	1.00949.6025
	Ethylene glycol monomethyl ether	109-86-4	≥ 99.5 %	≤ 0.003 %	≤ 0.1 %	1	Glass bottle	1.00859.1000
	for analysis EMSURE® ACS, Reag. Ph Eur					2.5	Glass bottle	1.00859.2500
						25 kg	Metal drum	1.00859.9025
-	Ethyl(-)-L-lactate EMPLURA®	687-47-8	≥ 99.0 %		≤ 0.2 %	1 l	Glass bottle	1.09639.1000
						2.5	Glass bottle	1.09639.2500
						4 I	Glass bottle	1.09639.4000
_	Ethyl methyl ketone	78-93-3	≥ 99.5 %	≤ 0.001 %	≤ 0.05 %	1	Glass bottle	1.09708.1000
	for analysis EMSURE® ACS, Reag. Ph Eur					2.5	Glass bottle	1.09708.2500
						4	Glass bottle	1.09708.4000
						25 l	Stainless steel drum	1.09708.6025
-	Ethyl methyl ketone	78-93-3	≥ 99.0 %	≤ 0.0025 %	≤ 0.1 %	2.5	Glass bottle	1.07049.2500
	for analysis EMPARTA® ACS					4	Glass bottle	1.07049.4000
-	Ethyl methyl ketone (2-Butanone)	78-93-3	≥ 99.0 %		≤ 0.1 %	1 l	Glass bottle	1.06014.1000
	EMPLURA®					2.5	Glass bottle	1.06014.2500
						25 l	Stainless steel drum	
						10 l	Metal drum	1.06014.9011
							Metal drum	

Ordering information Solvents

Solvents F-H

_								
	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
	Formamide for analysis EMSURE®	75-12-7	≥ 99.5 %		≤ 0.1 %	1	HDPE bottle	1.09684.1000
						2.5	HDPE bottle	1.09684.2500
	Formamide EMPLURA®	75-12-7	≥ 99.0 %		≤ 0.3 %	1	HDPE bottle	1.04008.1000
						2.5	HDPE bottle	1.04008.2500
	Glycerol 85 %		84.5 - 85.5	%	14.5 -	500 ml	HDPE bottle	1.04094.0500
	for analysis EMSURE® Reag. Ph Eur				15.5 %	1	HDPE bottle	1.04094.1000
						2.5 l	HDPE bottle	1.04094.2500
						25 l	Plastic can	1.04094.9026
	Glycerol	56-81-5	≥ 99.5 %		≤ 0.5 %	1	HDPE bottle	1.04092.1000
	for analysis EMSURE® ACS, Reag. Ph Eur					2.5 l	HDPE bottle	1.04092.2500
						4 l	Glass bottle	1.04092.4000
						10 l	Plastic can	1.04092.9010
	n-Heptane about 85 % EMPLURA®		≥ 85.0 %	≤ 0.005 %		1	Glass bottle	1.04307.1000
						2.5	Glass bottle	1.04307.2500
						4 I	Glass bottle	1.04307.4000
	n-Heptane	142-82-5	≥ 99.0 %	≤ 0.001 %	≤ 0.01 %	1 l	Glass bottle	1.04379.1000
	for analysis EMSURE® Reag. Ph Eur					2.5 l	Glass bottle	1.04379.2500
						2.5	HDPE bottle	1.04379.251
						4	Glass bottle	1.04379.4000
						10 l	Stainless steel drum	1.04379.6010
						25 l	Stainless steel drum	1.04379.602
						190 l	Metal drum	1.04379.9190
	n-Heptane	142-82-5	≥ 99.0 %	≤ 0.001 %	≤ 0.02 %	2.5 l	Glass bottle	1.07053.2500
	for analysis EMPARTA®					4	Glass bottle	1.07053.4000
	n-Heptane EMPLURA®	142-82-5	≥ 99.0 %	≤ 0.005 %		1	Glass bottle	1.04365.1000
						2.5 l	Glass bottle	1.04365.2500
						2.5 l	HDPE bottle	1.04365.2511
						25 l	Stainless steel drum	1.04365.602
						190 l	Stainless steel drum	1.04365.6190
						10 l	Metal drum	1.04365.9011
	Hexanes		≥ 98.5 %	≤ 0.01 %		1	Glass bottle	1.07060.1000
	for analysis EMPARTA® ACS					4	Glass bottle	1.07060.4000
						25 I	Metal drum	1.07060.902
						190 l	Metal drum	1.07060.9190
	n-Hexane about 85 % EMPLURA®		≥ 85.0 %		≤ 0.02 %	1	Glass bottle	1.04306.1000
						2.5	Glass bottle	1.04306.2500
						4	Glass bottle	1.04306.4000

Solvents H-L

Product	CAS No.	- 11 (aa)					
	CAS NO.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
n-Hexane	110-54-3	≥ 99.0 %	≤ 0.001 %	≤ 0.005 %	1	Glass bottle	1.04367.1000
for analysis EMSURE® ACS					2.5	Glass bottle	1.04367.2500
					2.5	HDPE bottle	1.04367.2511
					25 l	Stainless steel drum	1.04367.6025
					190 l	Metal drum	1.04367.9190
n-Hexane	110-54-3	≥ 96.0 %	≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.04374.1000
for analysis EMSURE® ACS, Reag. Ph Eur					2.5	Glass bottle	1.04374.2500
					2.5	HDPE bottle	1.04374.2511
					4 l	Glass bottle	1.04374.4000
					25 l	Stainless steel drum	1.04374.6025
n-Hexane	110-54-3	≥ 98.5 %	≤ 0.001 %	≤ 0.02 %	2.5	HDPE bottle	1.07023.2511
for analysis EMPARTA® ACS					4	Glass bottle	1.07023.4000
					25 l	Stainless steel drum	1.07023.6025
n-Hexane EMPLURA®	110-54-3	≥ 95.0 %		≤ 0.02 %	1 l	Glass bottle	1.04368.1000
					2.5	Glass bottle	1.04368.2500
					2.5 l	HDPE bottle	1.04368.2511
					25 l	Stainless steel drum	1.04368.6025
					10 l	Metal drum	1.04368.9011
					190 l	Metal drum	1.04368.9190
Isoamyl acetate EMPLURA®	123-92-2	≥ 99.0 %		≤ 0.1 %	1	Glass bottle	1.01231.1000
Isoamyl alcohol	123-51-3	≥ 99.0 %	≤ 0.002 %	≤ 0.2 %	1	Glass bottle	1.00979.1000
for analysis EMSURE® ACS, Reag. Ph Eur					2.5 l	Glass bottle	1.00979.2500
					4 l	Glass bottle	1.00979.4000
Isobutanol	78-83-1	≥ 99.0 %	≤ 0.001 %	≤ 0.05 %	1 l	Glass bottle	1.00984.1000
for analysis EMSURE® ACS, Reag. Ph Eur					2.5	Glass bottle	1.00984.2500
Isobutanol (Isobutyl alcohol) EMPLURA®	78-83-1	≥ 98.5 %		≤ 0.05 %	2.5	Glass bottle	1.00985.2500
					25 l	Stainless steel drum	1.00985.6025
					190 l	Metal drum	1.00985.9190
Isobutyl methyl ketone	108-10-1	≥ 99.0 %	≤ 0.001 %	≤ 0.1 %	1	Glass bottle	1.06146.1000
for extraction analysis EMSURE® ACS, Reag. Ph Eur					2.5	Glass bottle	1.06146.2500
ACS, Neag. Fil Eur					4 l	Glass bottle	1.06146.4000
Isobutyl methyl ketone EMPLURA®	108-10-1	≥ 99.0 %			2.5 l	Glass bottle	8.20820.2500
					10 l	Stainless steel drum	8.20820.6010
					25 l	Stainless steel drum	8.20820.6025
Isohexane for analysis EMSURE®	92112-69-1	≥ 95.0 %	\leq 10 mg/l	≤ 0.01 %	1	Glass bottle	1.04333.1000
					2.5	Glass bottle	1.04333.2500
Isooctane	540-84-1	≥ 99.5 %	≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.04727.1000
for analysis EMSURE® ACS, Reag. Ph Eur					2.5 l	Glass bottle	1.04727.2500
				-	4	Glass bottle	1.04727.4000
					10 l	Stainless steel drum	1.04727.6010
					25 l	Stainless steel drum	1.04727.6025

Ordering information Solvents

Solvents M-P

	Solvents M-P							
	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
/	Methanol for analysis EMSURE®	67-56-1	≥ 99.9 %	≤ 0.0005 %	≤ 0.05 %	1	Glass bottle	1.06009.1000
	ACS, ISO, Reag. Ph Eur					1	HDPE bottle	1.06009.1011
						2.5	Glass bottle	1.06009.2500
						2.5	HDPE bottle	1.06009.2511
						4 I	Glass bottle	1.06009.4000
						5 l	HDPE bottle	1.06009.5000
						10 l	Stainless steel drum	1.06009.6010
						25 I	Stainless steel drum	1.06009.6025
						180 l	Metal drum	1.06009.9180
	Methanol for analysis EMPARTA® ACS	67-56-1	≥ 99.8 %	≤ 0.001 %	≤ 0.1 %	2.5	HDPE bottle	1.07018.2511
						4 I	Glass bottle	1.07018.4000
						25 l	Metal drum	1.07018.9026
	Methanol EMPLURA®	67-56-1	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	1 l	HDPE bottle	8.22283.1000
						2.5	HDPE bottle	8.22283.2500
						5 I	HDPE bottle	8.22283.5000
						10 l	Metal drum	8.22283.9011
						25 I	Metal drum	8.22283.9025
						180 l	Metal drum	8.22283.9180
	1-Methoxy-2-propanol EMPLURA®	107-98-2	≥ 99.5 %		≤ 0.1 %	1 l	Glass bottle	1.16738.1000
						2.5	Glass bottle	1.16738.2500
						25 I	Stainless steel drum	1.16738.6025
	1-Methyl-2-pyrrolidone for analysis EMPARTA® ACS	872-50-4	≥ 99.0 %		≤ 0.05 %	4	Glass bottle	1.07063.4000
	1-Methyl-2-pyrrolidone EMPLURA®	872-50-4	≥ 99.5 %		≤ 0.1 %	1	HDPE bottle	8.06072.1000
						2.5	HDPE bottle	8.06072.2500
						10 I	Metal drum	8.06072.9011
						25 I	Plastic can	8.06072.9025
						190 l	Metal drum	8.06072.9190
	2-Methyltetrahydrofuran EMPLURA®	96-47-9	≥ 99.0 %		≤ 0.1 %	1 l	Glass bottle	1.08292.1000
						2.5	Glass bottle	1.08292.2500
						4	Glass bottle	1.08292.4000
	1-Octanol EMPLURA®	111-87-5	≥ 99.0 %		≤ 0.1 %	1 l	Glass bottle	1.00991.1000
	n-Pentane about 95 % EMPLURA®	109-66-0	≥ 95.0 %	≤ 0.005 %		1	Glass bottle	1.07176.1000
						5 l	Aluminum bottle	1.07176.5000
						190 l	Metal drum	1.07176.9190
	n-Pentane for analysis EMSURE®	109-66-0	≥ 99.0 %	≤ 0.001 %	≤ 0.01 %	1 l	Glass bottle	1.07177.1000
						2.5	Glass bottle	1.07177.2500
						4 I	Glass bottle	1.07177.4000
	n-Pentane EMPLURA®	109-66-0	≥ 99.0 %			1 l	Glass bottle	8.20957.1000
						2.5	Glass bottle	8.20957.2500
						25 I	Metal drum	8.20957.9025

Solvents P

Solvents P							
Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
Petroleum for analysis EMSURE®	64742-48-9			≤ 0.01 %	1	Glass bottle	1.09718.1000
					2.5	Glass bottle	1.09718.250
					25	Stainless steel drum	1.09718.602
Petroleum benzine boiling range	64742-49-0	ı	≤ 0.003 %	≤ 0.01 %	1	Glass bottle	1.01786.100
30 – 50°C for analysis EMSURE®					2.5	Glass bottle	1.01786.250
Petroleum benzine boiling range to about	64742-49-0	ı	≤ 0.002 %	≤ 0.01 %	5 l	Aluminum bottle	1.00915.500
40°C EMPLURA®					25 l	Stainless steel drum	1.00915.602
Petroleum benzine for analysis boiling	64742-49-0	ı	≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.01775.100
range 40 – 60°C EMSURE® ACS, ISO					2.5 l	Glass bottle	1.01775.250
					4 I	Glass bottle	1.01775.400
					5 l	Aluminum bottle	1.01775.500
					10 l	Stainless steel drum	1.01775.601
					25 l	Stainless steel drum	1.01775.602
					190 l	Metal drum	1.01775.919
Petroleum benzine boiling range 40 – 60°C for analysis EMPARTA® ACS					2.5	Glass bottle	1.07055.250
Petroleum benzine boiling range			≤ 0.001 %	≤ 0.01 %	5 l	Aluminum bottle	1.01773.500
40 – 80°C EMPLURA®					25 l	Stainless steel drum	1.01773.602
Petroleum benzine boiling range 50 – 70°C EMSURE® Reag. Ph Eur					500 ml	Glass bottle	1.59542.050
troleum benzine boiling range			≤ 0.001 %	≤ 0.01 %	5 l	Aluminum bottle	1.00910.500
50 – 70°C EMPLURA®					25 l	Stainless steel drum	1.00910.602
Petroleum benzine boiling range			≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.01774.100
60 – 80°C for analysis EMSURE®					2.5	Glass bottle	1.01774.250
					5 l	Aluminum bottle	1.01774.500
					25 l	Stainless steel drum	1.01774.602
Petroleum benzine boiling range 80 – 100°C for analysis EMSURE®	64742-49-0		≤ 0.001 %	≤ 0.01 %	1 l	Glass bottle	1.01777.100
Petroleum benzine boiling range 100 – 120°C for analysis EMSURE® Reag. Ph Eur	64742-49-0		≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.01781.100
Petroleum benzine boiling range	64742-49-0		≤ 0.005 %	≤ 0.01 %	1	Glass bottle	1.01770.100
100 – 140°C (Naphta Benzine) EMPLURA®					5 l	Aluminum bottle	1.01770.500
				-	25 l	Stainless steel drum	1.01770.602
Piperidine for analysis EMSURE®	110-89-4	≥ 99.0 %	≤ 0.1 %	≤ 0.3 %	500 ml	Glass bottle	1.09724.050
1,2-Propanediol EMPLURA®	57-55-6	≥ 99.0 %		≤ 0.2 %	1	HDPE bottle	8.22324.100
					5 I	HDPE bottle	8.22324.500
1-Propanol for analysis EMSURE®	71-23-8	≥ 99.5 %	≤ 0.001 %	≤ 0.05 %	1	Glass bottle	1.00997.100
ACS, Reag. Ph Eur					2.5	Glass bottle	1.00997.250
					4	Glass bottle	1.00997.400
					25 l	Stainless steel drum	1 00007 602

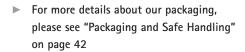
Ordering information Solvents

Solvents P-T

	Solvents i							
	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
	1-Propanol EMPLURA®	71-23-8	≥ 99.0 %		≤ 0.2 %	1	Glass bottle	1.00996.100
						2.5	Glass bottle	1.00996.250
						25 l	Stainless steel drum	1.00996.602
	2-Propanol for analysis EMSURE®	67-63-0	≥ 99.8 %	≤ 0.001 %	≤ 0.05 %	1 l	Glass bottle	1.09634.100
	ACS, ISO, Reag. Ph Eur					1	HDPE bottle	1.09634.101
						2.5 l	Glass bottle	1.09634.250
						2.5	HDPE bottle	1.09634.251
						4 l	Glass bottle	1.09634.400
						5 l	HDPE bottle	1.09634.500
						10 l	Stainless steel drum	1.09634.601
						25 l	Stainless steel drum	1.09634.602
						190 l	Stainless steel drum	1.09634.619
						180 l	Metal drum	1.09634.918
	2-Propanol for analysis EMPARTA® ACS	67-63-0	≥ 99.5 %	≤ 0.001 %	≤ 0.2 %	2.5 l	HDPE bottle	1.07022.251
						4 I	Glass bottle	1.07022.400
						25 l	Metal drum	1.07022.902
	2-Propanol EMPLURA®	67-63-0	≥ 99.5 %	≤ 0.002 %	≤ 0.2 %	1	HDPE bottle	8.18766.100
						2.5 l	HDPE bottle	8.18766.250
2						10 l	Metal drum	8.18766.901
						25 l	Metal drum	8.18766.902
	2-Propanol 70 % EMPLURA®		68.0 -72.0 % 28.0 -		28.0 - 32.0 %	4 l	Glass bottle	1.09636.400
	Pyridine for analysis EMSURE®	110-86-1	≥ 99.5 %	≤ 0.002 %	≤ 0.1 %	100 ml	Glass bottle	1.09728.010
	ACS, Reag. Ph Eur					500 ml	Glass bottle	1.09728.050
						1 l	Glass bottle	1.09728.100
						2.5	Glass bottle	1.09728.250
						4 I	Glass bottle	1.09728.400
						25 l	Stainless steel drum	1.09728.602
	Pyridine for analysis EMPARTA® ACS	110-86-1	≥ 99.0 %	≤ 0.002 %	≤ 0.1 %	2.5 l	Glass bottle	1.94601.250
						4	Glass bottle	1.94601.400
	Pyridine EMPLURA®	110-86-1	≥ 99.0 %	≤ 0.01 %	≤ 0.1 %	1	Glass bottle	1.07462.100
					_	2.5	Glass bottle	1.07462.250
						25 l	Stainless steel drum	1.07462.602
	Tetrachloroethylene EMPLURA®	127-18-4	≥ 99.0 %	≤ 0.001 %	≤ 0.005 %	1 l	Glass bottle	1.00964.100
						2.5	Glass bottle	1.00964.250
						190 l	Metal drum	1.00964.919
	Tetrahydrofuran	109-99-9	≥ 99.8 %	≤ 0.0005 %	≤ 0.03 %	1 l	Glass bottle	1.09731.100
	for analysis EMSURE® ACS, Reag. Ph Eur				-	2.5 l	Glass bottle	1.09731.250
						4	Glass bottle	1.09731.400
						10 l	Stainless steel drum	1.09731.601
						10 1	Stanness steer arani	

Solvents T-Z

Solvents T-Z								
Product	CA	AS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
Tetrahydrofuran	10	09-99-9	≥ 99.5 %	≤ 0.03 %	≤ 0.05 %	2.5	Glass bottle	1.07025.2500
for analysis EMPARTA® ACS						4	Glass bottle	1.07025.4000
Tetrahydrofuran EMPLURA®	10	09-99-9	≥ 99.0 %		≤ 0.1 %	1	Glass bottle	1.08114.1000
						2.5	Glass bottle	1.08114.2500
						25 l	Stainless steel drum	1.08114.6025
						190 l	Metal drum	1.08114.9190
Toluene for analysis EMSURE®	10	08-88-3	≥ 99.9 %	≤ 0.0005 %	≤ 0.03 %	1	Glass bottle	1.08325.1000
ACS, ISO, Reag. Ph Eur						2.5	Glass bottle	1.08325.2500
						2.5	HDPE bottle	1.08325.2511
						4	Glass bottle	1.08325.4000
						10 l	Stainless steel drum	1.08325.6010
						25 l	Stainless steel drum	1.08325.6025
						190 l	Metal drum	1.08325.9190
Toluene for analysis EMPARTA® ACS	10	08-88-3	≥ 99.5 %	≤ 0.001 %	≤ 0.03 %	2.5	Glass bottle	1.07019.2500
					_	2.5	HDPE bottle	1.07019.2511
						4	Glass bottle	1.07019.4000
Toluene EMPLURA®	10	08-88-3	≥ 99.0 %			1 l	Glass bottle	1.08323.1000
						2.5	Glass bottle	1.08323.2500
						25 l	Stainless steel drum	1.08323.6025
						10 l	Metal drum	1.08323.9011
						190 l	Metal drum	1.08323.9190
Trichloroethylene	79	9-01-6	≥ 99.5 %	≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.11872.1000
for analysis EMSURE® ACS, Reag. Ph Eur						2.5	Glass bottle	1.11872.2500
Trichloroethylene EMPLURA®	79	9-01-6	≥ 99.5 %	≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.00958.1000
						2.5	Glass bottle	1.00958.2500
						25 l	Stainless steel drum	1.00958.6025
1,1,2-Trichlorotrifluoroethane for analysis EMSURE® Reag. Ph Eur	76	6-13-1	≥ 99.8 %	≤ 0.0005 %	≤ 0.005 %	2.5	Glass bottle	1.08440.2500
Triethanolamine EMPLURA®	10	02-71-6			≤ 0.3 %	5 l	Plastic can	8.22341.5000
The than to a mine E will E o to	10	32-71-0			3 0.5 70	25 l	Plastic can	8.22341.9026
n-Undecane for analysis EMSURE®			≥ 99.0 %		≤ 0.01 %	100 ml	Glass bottle	1.09795.0100
Water for analysis EMSURE®	77	732-18-5		≤ 1 mg/l	≤ 0.01 % ≤ 0.01 %	4	Titripac	1.16754.4000
Trace for analysis LiviSUNL-	//	72-10-3	_ 55.0 %	⇒ 1 mg/1	<u> </u>	5	HDPE bottle	
								1.16754.5000
n Yulong for analysis EMSIIDE® ISO	10	ne 42 2	> 00 0 0/6	< 0.001.0%	< 0.01.0%	10	Titripac Glass battle	1.16754.9010
p-Xylene for analysis EMSURE® ISO	10	06-42-3	≥ 99.0 %	≤ 0.001 %	≤ 0.01 %	11	Glass bottle	1.08684.1000
						2.5	Glass bottle	1.08684.2500





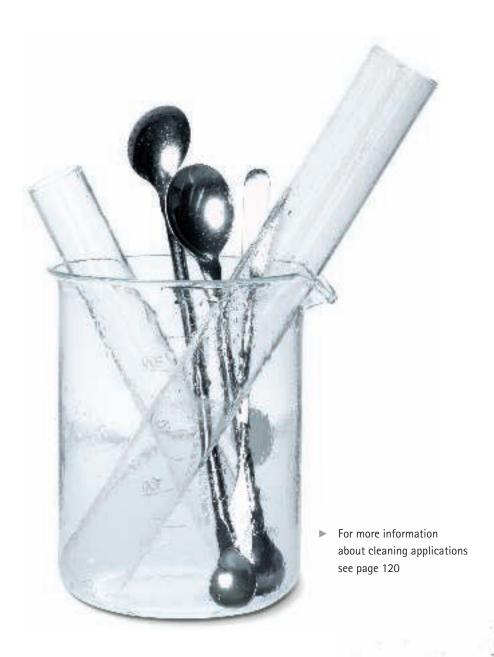
General Application Chemicals Safety, simplicity and sustainability

Merck offers a comprehensive range of general application chemicals, which are designed to maximize safety and simplicity in daily lab work. Wherever possible, we use natural products to ensure that we both work more sustainably and achieve our environmental targets.

Learn more

The following pages present a selection of our general application chemicals. For further products and information, please visit **www.merckmillipore.com/safety-products**, or download our Inorganic Reagents catalog on www.merckmillipore.com/inorganic-reagents-catalog.





For more information about absorption and filtration see page 132

► For more information about absorbents for spilled liquids see page 126

Cleaning Applications Extran® for reliable, residue-free cleaning

For over 30 years, Extran® cleaning agents have enabled precise scientific working procedures in labs and production facilities around the world. Thanks to their thorough, residue–free cleaning, Extran® products ensure that everything that comes into contact with chemicals or biological substances is free of impurities – before and after use. Despite their exceptional cleaning strength, Extran® products contain biodegradable ingredients that are free of toxins, so they are gentle on the environment and on the health of laboratory staff.

Your advantages



- Reliable, residue-free all-purpose cleaner
- Free from NTA thus safer for lab staff
- Free from scents and dyestuffs
- Free from chlorine or other toxic ingredients
- All active ingredients are biodegradable
- Validation support to prove the absence of surfactants



Safer

Extran® not only supports your work, but also protects your health. Our cleaning agents contain no chlorine or other toxic ingredients, and avoid all scents and dyestuffs. Extran® products are also free of silicones, oxidants, and NTA (nitrilotriacetic acid).

Greener

Extran® cleaning agents are produced from biodegradable active ingredients under strictly controlled conditions, and fulfill the highest standards in environmental protection. In almost all cases, Extran® avoids the use of the toxic cleaning agent chromosulfuric acid, which is still common on the market.



Simpler

For added certainty, Merck provides a practical and easy-to-use application aid to prove the absence of nonionic surfactant residues by means of a photometric test. This helps you prepare your cleaning validation, thus saving you time and costs.

Learn more

The following pages present a selection of Extran® cleaning agents. For further products and information, please visit www.merckmillipore.com/extran, or download our Inorganic Reagents catalog on www.merckmillipore.com/inorganic-reagents-catalog.

Cleaning Applications Extran® for manual washing

Manual washing

Extran® MA products for manual washing are universally applicable concentrates for the production of water baths. Simply immerse equipment in the diluted solution for reliable, residue-free cleaning.

General application advice

- Use water to prepare the cleaning solution. If slight sedimentation of the hardener occurs, more Extran® should be added. De-mineralized water boosts the cleaning effect.
- Completely immerse items that need to be cleaned in the solution.
- Once cleaning is finished, rinse items first with tap water, then with de-mineralized water.
- Baths can be used for long periods without a noticeable decrease in the cleaning effect.
- If necessary, the rinsing liquid can be supplemented with fresh Extran[®].
- Application duration is less than 2 hours.
- For difficult cases (e.g. plaster, blood or heavy oil), leave items in the bath a little longer.





Dosing aid

For dependable and economical cleaning, the detergent must be dosed precisely: too little cleans insufficiently, too much leaves residues. To ensure accurate dosing and safe handling during manual cleaning, Merck offers 1 l bottles with reusable dosing aids. They can also be ordered separately if required.

Extran® MA 01 liquid, alkaline	Content	Packaging	Ord. No.
Extran® MA 01 alkaline	1 l	HDPE bottle	1.07555.1000
	2.5	HDPE bottle	1.07555.2500
	5 l	HDPE bottle	1.07555.5000
	10 l	Plastic container	1.07555.9010
	25 l	Plastic container	1.07555.9025
Accessories			
Dosing feeder made from PP, 20 – 28 ml for 1 l Extran® bottle			9.57571.1020

Extran® MA 02 liquid, neutral	Content	Packaging	Ord. No.
Extran® MA 02 neutral	2.5 l	HDPE bottle	1.07553.2500
	5 l	HDPE bottle	1.07553.5000
	10 l	Plastic container	1.07553.9010
	25 l	Plastic container	1.07553.9025

Extran® MA 05 liquid, alkaline, phosphate-free	Content	Packaging	Ord. No.
Extran® MA 05 liquid, alkaline, phosphate-free concentrate	2.5 l	HDPE bottle	1.40000.2500
	5 l	HDPE bottle	1.40000.5000
	10 l	Plastic container	1.40000.9010
	25 l	Plastic container	1.40000.9025

Cleaning Applications Extran® for automated cleaning

Automated cleaning

Extran® AP automated cleaning products were created and tested in cooperation with leading appliance manufacturers especially for use in laboratory washing machines. The products ensure effective cleaning, while significantly limiting foam formation and minimizing residues.

Extran® AP 12 powder, alkaline	Content	Packaging	Ord. No.
Extran® AP 12 alkaline	2 kg	HDPE bottle	1.07563.2000
	10 kg	Bucket, plastic	1.07563.9010
	25 kg	Plastic drum	1.07563.9025
Extran® AP 17 liquid, alkaline	Content	Packaging	Ord. No.
Extran® AP 17 liquid, alkaline concentrate	2.5 l	HDPE bottle	1.40006.2500
	5 I	HDPE bottle	1.40006.5000
	10 l	Plastic container	1.40006.9010
Accessories			
Adapter made from PP, for 10 I and 25 I Extran® cans			9.67212.0001
Extran® AP 21 liquid, acidic with phosphoric acid	Content	Packaging	Ord. No.
Extran® AP 21 acidic with phosphoric acid	2.5	HDPE bottle	1.07559.2500
	10 I	Plastic container	1.07559.9010
	25 l	Plastic container	1.07559.9025
Accessories			
Adapter made from PP, for 10 I and 25 I Extran® cans			9.67212.0001
Extran® AP 22 liquid, acidic with citric acid	Content	Packaging	Ord. No.
Extran® AP 22 acidic with citric acid	2.5	HDPE bottle	1.07561.2500
	10 l	Plastic container	1.07561.9010
	25 l	Plastic container	1.07561.9025
Accessories			
Adapter made from PP, for 10 I and 25 I Extran® cans			9.67212.0001

Universal adapter

Larger volumes of detergent, such as 10 and 25 l cans, are typically used for cleaning equipment. The cans should be connected tightly to washing machines to prevent spraying and potential health risks. Since various types of machines are used around the world with different connection systems, Merck has designed a universal adapter that fits them all. It enables secure connection between different machines and detergent cans to avoid spills, protect personnel and prevent external contamination.

Safe prev Relia thus

Your advantages

- Safety: Secure connection between cans and washing machines prevents spills and protects users
- Reliability: External (airborne) contamination is avoided, thus analytical results are unaffected

Absorbents for spilled liquids Chemizorb® for safe and swift absorption

Accidents happen in every lab. With Chemizorb®, you can remove aggressive or unpleasant spilled liquids quickly and safely. Chemizorb® absorbents consist of porous mineral or synthetic copolymers that are chemically inert, and are capable of taking up 100 to 400 percent of their own weight in liquid material.



Learn more

For further products and information, please visit www.merckmillipore.com/chemizorb, or download our Inorganic Reagents catalog on www.merckmillipore.com/inorganic-reagents-catalog.







The »all-rounders«

Chemizorb® powder and granules are insoluble in water and in all other media that are liquid at room temperature. These "all-rounders" are suitable for removing nearly all kinds of aqueous spills, such as acids, alkalis and solvents.

Chemizorb® powder	Content	Packaging	Ord. No.
Chemizorb® powder absorbent for spilled liquids	500 g	HDPE bottle	1.02051.0500
	25 kg	Fibre carton	1.02051.9025
Chemizorb® granules	Content	Packaging	Ord. No.
Chemizorb® granules absorbent for spilled liquids	1 kg	HDPE bottle	1.01568.1000
	5 kg	Bucket, plastic	1.01568.5000
	20 kg	Paper sack	1.01568.9020
	20 kg	PE drum	1.01568.9021

The »specialists«

We offer specific absorbents for alkalis, acids, and hydrofluoric acid. Each contains special carrier materials and water-soluble neutralizers, as well as pH indicators that help you visually monitor the neutralization of the spilled chemicals. Please note that the reaction may generate heat and gas.

Chemizorb® OH-	Content	Packaging	Ord. No.
Chemizorb® OH ⁻ absorbent and neutralizer for spilled alkalis, with indicator	1 kg	HDPE bottle	1.01596.1000
Chemizorb® H*	Content	Packaging	Ord. No.
Chemizorb® H ⁺ absorbent and neutralizer for spilled acids, with indicator	500 g	HDPE bottle	1.02491.0500
	2.5 kg	Bucket, plastic	1.02491.2500
Chemizorb® HF	Content	Packaging	Ord. No.
Chemizorb® HF absorbent and neutralizer for spilled hydrofluoric acid, with indicator	1 kg	HDPE bottle	1.01591.1000

The »all-in-one« set for mercury

Chemizorb® Mercury is an all-inclusive set of reagents and auxiliaries for safe and complete removal of drops of mercury and traces of elementary mercury. The reagents in the set are sufficient for decontaminating an area of around one square meter.

Chemizorb® Hg	Content	Packaging	Ord. No.
Chemizorb® Hg Reagents and accessories for absorbent for mercury	1 set	PE case	1.12576.0001
1 set consisting of: 500 g of reagent 1, 100 ml of reagent 2, one small tub,	one large dis _l	oosal can, protec	tive gloves,
Chemizorb® Hg reagents refill pack for Ord. No. 1.12576.0001	1 set	PE can	1.01569.0001
1 set consisting of: 500 g reagent 1 and 100 ml reagent 2			



Drying Agents Safe, environmentally friendly desiccants

Merck's drying agents are not only effective and easy to use, but also support sustainability and safety in the lab. For example, we offer silica gels with or without orange or brown indicators as an alternative to silica gel with blue indicator, which is known to be toxic and carcinogenic due to the presence of cobalt chloride.



Your advantages

- Reliability: Thorough drying minimizes the effects of moisture on products to maintain their original condition
- Convenience: Ease of use saves time and increases lab productivity
- Cost efficiency: Effective drying increases the longevity of your products and avoids costly damages



Safety information

The use of drying agents carries potential risks. These are listed below for your safety.

- Acidic and basic drying agents can be corrosive
- Magnesium perchlorate can be explosive
- Sodium and potassium can be explosive when in contact with certain organic substances, water or chlorinated hydrocarbons
- Drying agents that develop hydrogen during the drying process must be used in a well-ventilated fume chamber

Learn more

The following pages present a selection of the most important drying agents.

For further products, information and advice, please visit www.merckmillipore.com/safety-products, or download our Inorganic Reagents catalog on www.merckmillipore.com/inorganic-reagents-catalog.

Drying Agents Safe, environmentally friendly desiccants

Calcium chloride [CaCl ₂]	CAS No.	Content	Packaging	Ord. No.
Calcium chloride anhydrous powder Reag. Ph Eur	10043-52-4	500 g	HDPE bottle	1.02378.0500
		2.5 kg	HDPE bottle	1.02378.2500
Calcium chloride anhydrous, granular ~ 1 – 2 mm 10043-52-4	1 kg	HDPE bottle	1.02379.1000	
		5 kg	HDPE bottle	1.02379.5000
Calcium chloride anhydrous, granular ~ 2 - 6 mm	10043-52-4	1 kg	HDPE bottle	1.02391.1000
		5 kg	Fibre carton	1.02391.5000
		25 kg	Fibre carton	1.02391.9025
Calcium chloride anhydrous, granular ~ 6 - 14 mm	10043-52-4	1 kg	HDPE bottle	1.02392.1000
		5 kg	Fibre carton	1.02392.5000
		25 kg	Fibre carton	1.02392.9025

Desiccant sachets [SiO₂]	Content	Packaging	Ord. No.
Desiccant sachet 10 g silica gel with humidity indicator (orange gel) sachet: $7 \times 9 \text{ cm}$	50 units	Metal can	1.03804.0001
Desiccant sachet 100 g silica gel with humidity indicator (orange gel) sachet: 15 x 14 cm	10 units	Metal can	1.03805.0001
Desiccant sachet 250 g silica gel with humidity indicator (orange gel) sachet: 15 x 20.5 cm	10 units	Metal can	1.03806.0001
Desiccant sachet 3 g silica gel with humidity indicator (orange gel)		Metal can	1.03803.0001
sachet: 4 x 7 cm	1000 units	Fibre carton	1.03803.0002
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Molecular sieves	CAS No.	Content	Packaging	Ord. No.	
Molecular sieve 0.3 nm beads ~ 2 mm ¹⁾	1318-02-1	250 g	HDPE bottle	1.05704.0250	
		1 kg	HDPE bottle	1.05704.1000	
		10 kg	Bucket, plastic	1.05704.9010	
Molecular sieve 0.3 nm beads,	-	250 g	HDPE bottle	1.05734.0250	
with moisture indicator $\sim 2 \text{ mm}^{1)}$		1 kg	HDPE bottle	1.05734.1000	
Molecular sieve 0.3 nm rods ~ 1.6 mm (1/16")	1318-02-1	250 g	HDPE bottle	1.05741.0250	
		1 kg	HDPE bottle	1.05741.1000	
		10 kg	Bucket, plastic	1.05741.9010	
Molecular sieve 0.4 nm beads ~ 2 mm Reag. Ph Eur	1318-02-1	1318-02-1	250 g	Glass bottle	1.05708.0250
		1 kg	Glass bottle	1.05708.1000	
		10 kg	Bucket, plastic	1.05708.9010	
Molecular sieve 0.4 nm beads,	-	250 g	Glass bottle	1.05739.0250	
with moisture indicator \sim 2 mm		1 kg	Glass bottle	1.05739.1000	
Molecular sieve 0.4 nm rods ~ 1.6 mm (1/16")	1318-02-1	1 kg	HDPE bottle	1.05743.1000	
Molecular sieve 0.5 nm beads ~ 2 mm	1318-02-1	250 g	Glass bottle	1.05705.0250	
		1 kg	Glass bottle	1.05705.1000	
Molecular sieve 1.0 nm beads ~ 2 mm	1318-02-1	1 kg	Glass bottle	1.05703.1000	

^{▶ 1)} Molecular sieves with 0.3 nm bead form (105704) and with indicator brown gel (105734) are suitable for use in Karl Fischer titrators.

Phosphorus pentoxide [P ₂ O ₅]	CAS No.	Content	Packaging	Ord. No.
di-Phosphorus pentoxide extra pure	1314-56-3	1 kg	Glass bottle	1.00540.1000
		25 kg	Plastic drum	1.00540.9025
di-Phosphorus pentoxide	1314-56-3	100 g	Glass bottle	1.00570.0100
for analysis ACS, ISO, Reag. Ph Eur		500 g	Glass bottle	1.00570.0500

Silica gel [SiO ₂]	CAS No.	Content	Packaging	Ord. No.
Silica gel granules, desiccant ~ 0.2 - 1 mm	7631-86-9	1 kg	HDPE bottle	1.01905.1000
Silica gel granules, desiccant ~ 2 - 5 mm	7631-86-9	1 kg	HDPE bottle	1.01907.1000
		5 kg	Plastic drum	1.01907.5000
Silica gel with moisture indicator (brown gel)	-	1 kg	HDPE bottle	1.01972.1000
desiccant ~ 1 – 4 mm		5 kg	HDPE bottle	1.01972.5000
		25 kg	Plastic drum	1.01972.9025
Silica gel with indicator (orange gel),	_	1 kg	HDPE bottle	1.01969.1000
granulate ~ 1 - 3 mm		5 kg	HDPE bottle	1.01969.5000
		25 kg	Plastic drum	1.01969.9025
Silica gel beads, desiccant ~ 2 - 5 mm	7631-86-9	1 kg	HDPE bottle	1.07735.1000

SICAPENT®	Content	Packaging	Ord. No.
SICAPENT® with indicator (phosphorus pentoxide drying agent	500 ml	Glass bottle	1.00543.0500
for desiccators) on inert carrier material	2.8	Glass bottle	1.00543.2800

Absorption and Filtration Dependable, flexible and ecological

Absorption, adsorption, filtration and clarification are among the most important applications in laboratories. Merck's product portfolio includes a wide variety of reagents and materials for these purposes, such as activated charcoal, graphite, molecular sieves and sea sand.



Your advantages

- Reliability: Premium reagents and materials ensure highly reliable take up and purification of a wide range of substances
- Convenience: Comprehensive portfolio allows easy ordering – from one trusted supplier
- Cost efficiency: A variety of pack sizes available to suit individual needs



Nature in the lab

Many of the absorption and adsorption reagents and filter materials we offer for use in laboratories are produced from natural resources that are not harmful to the environment. One example is our activated charcoal, which is gained from pinewood or mineral coal. It is used in numerous applications, such as for adsorption, de-colorization and purification of gases and liquids, or as a carrier for catalysts. Another product that promotes sustainability is calcium oxide, which is extracted from natural marble, and used as a CO_2 absorbent among other applications.

Learn more

The following pages present a selection of the most important absorption, adsorption and filtration products. For further solutions, information and advice, please visit www.merckmillipore.com/absorption-filtration, or download our Inorganic Reagents catalog on www.merckmillipore.com/inorganic-reagents-catalog.

Absorption and Filtration Dependable, flexible and ecological

Calcium oxide	CAS No.	Content	Packaging	Ord. No.
Calcium oxide from marble small lumps ~ 3 - 20 mm	1305-78-8	1 kg	HDPE bottle	1.02109.1000
		25 kg	Fibre carton	1.02109.9025



Charcoal activated	CAS No.	Content	Packaging	Ord. No.
Charcoal activated	7440-44-0	250 g	Metal can	1.02186.0250
for analysis		1 kg	Metal can	1.02186.1000
		20 kg	Fibre carton	1.02186.9020
Charcoal activated	7440-44-0	1 kg	Plastic bag	1.02514.1000
granular about 1.5 mm extra pure		5 kg	Fibre carton	1.02514.5000
		25 kg	Fibre carton	1.02514.9025
Charcoal activated	7440-44-0	1 kg	Metal can	1.02184.1000
powder extra pure		5 kg	Fibre carton	1.02184.5000
		20 kg	Fibre carton	1.02184.9020
Charcoal activated	7440-44-0	1 kg	Plastic bag	1.02183.1000
pure		20 kg	Fibre carton	1.02183.9020



Glass wool	CAS No.	Content	Packaging	Ord. No.
Glass wool	65997-17-3	250 g	Metal can	1.04086.0250
		1 kg	Fibre carton	1.04086.1000

Sea sand	CAS No.	Content	Packaging	Ord. No.
Sea sand extra pure	7631-86-9	1 kg	HDPE bottle	1.07711.1000
		5 kg	HDPE bottle	1.07711.5000
		25 kg	Fibre carton	1.07711.9025
Sea sand purified by acid and calcined for analysis	7631-86-9	1 kg	HDPE bottle	1.07712.1000
		5 kg	HDPE bottle	1.07712.5000
		10 kg	HDPE bottle	1.07712.9010
		25 kg	Fibre carton	1.07712.9025

Sodalime	CAS No.	Content	Packaging	Ord. No.
Sodalime, granules approx. 1 – 2.5 mm with indicator for analysis	-	500 g	HDPE bottle	1.06733.0501
		2.5 kg	HDPE bottle	1.06733.2500
Sodalime pellets with indicator for analysis	-	1 l	HDPE bottle	1.06839.1000
		5 I	HDPE bottle	1.06839.5000
		25 l	Fibre carton	1.06839.9026

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For further information on Merck and our products contact:

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