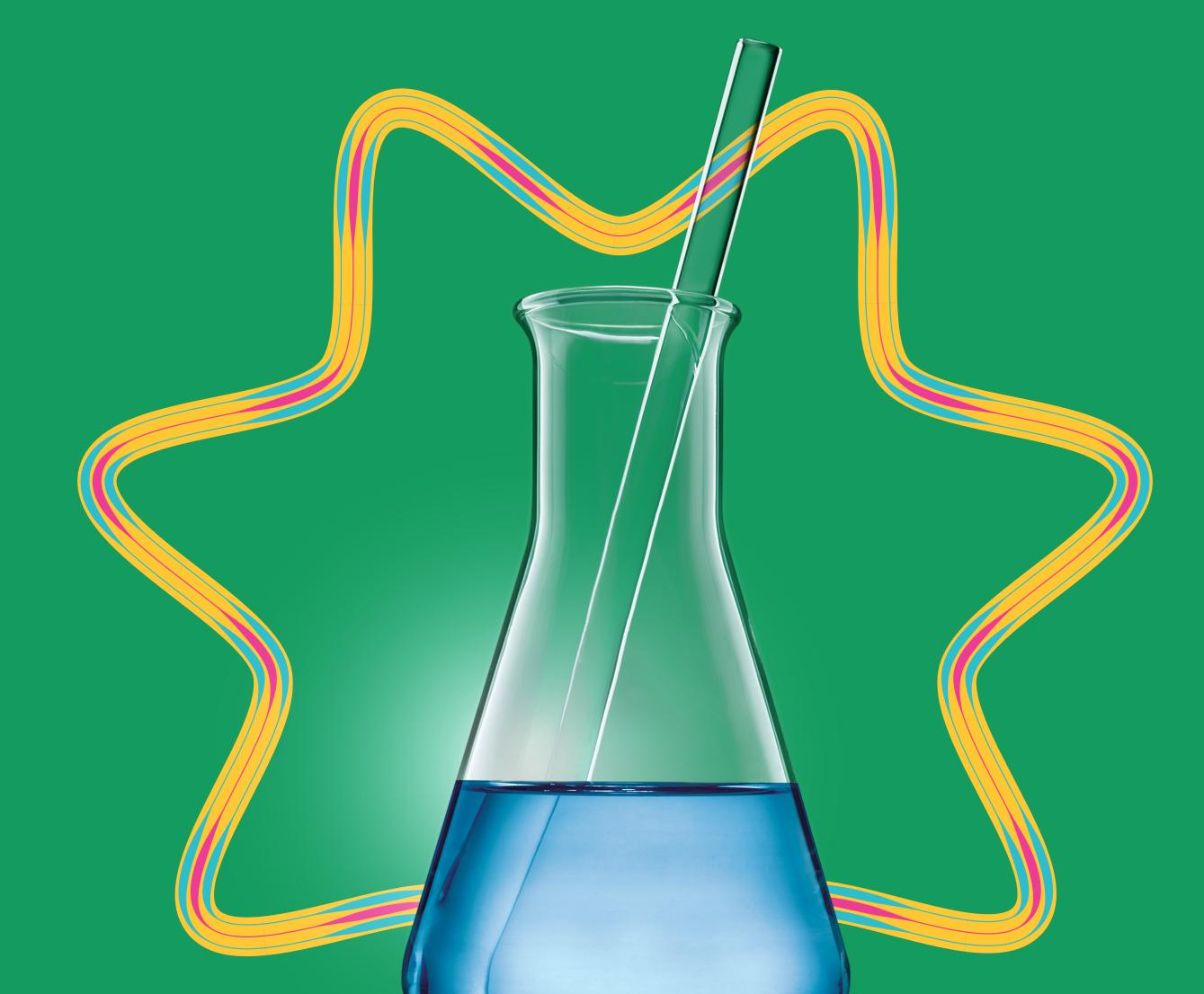
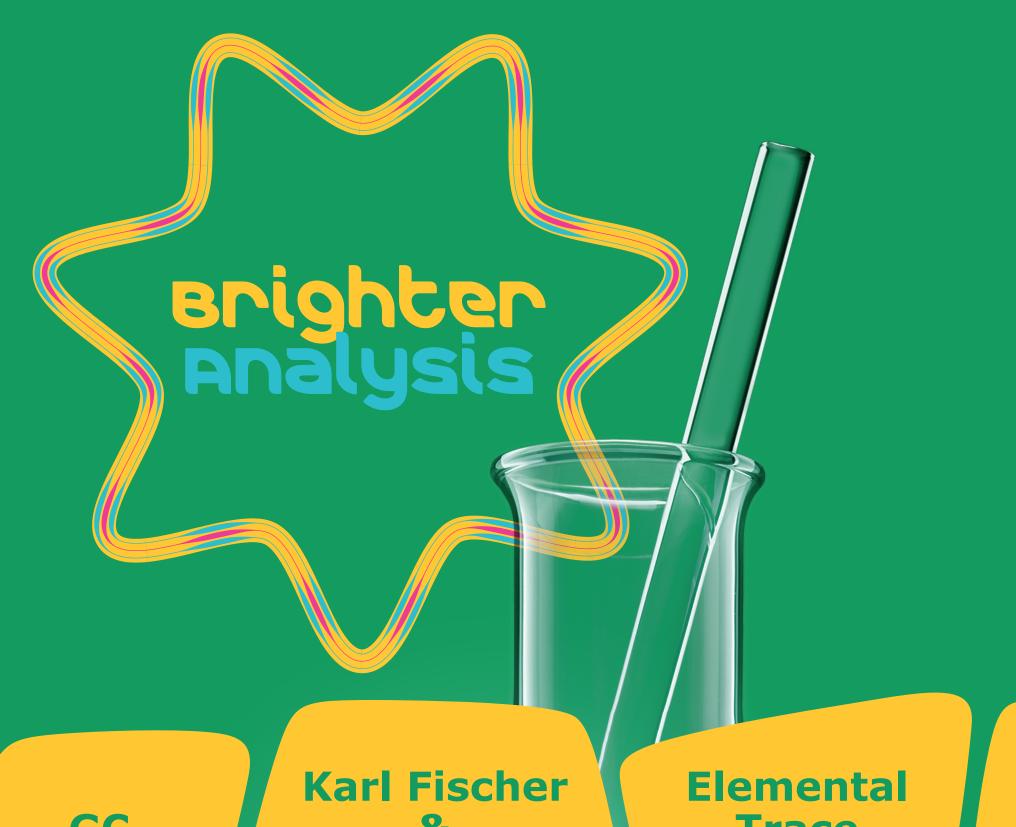
Brighter Analysis

Solvents & Inorganics for accurate, brilliant results

RAILIPORE SIGNA



The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.



Aillipore

HPLC LC-MS

GC

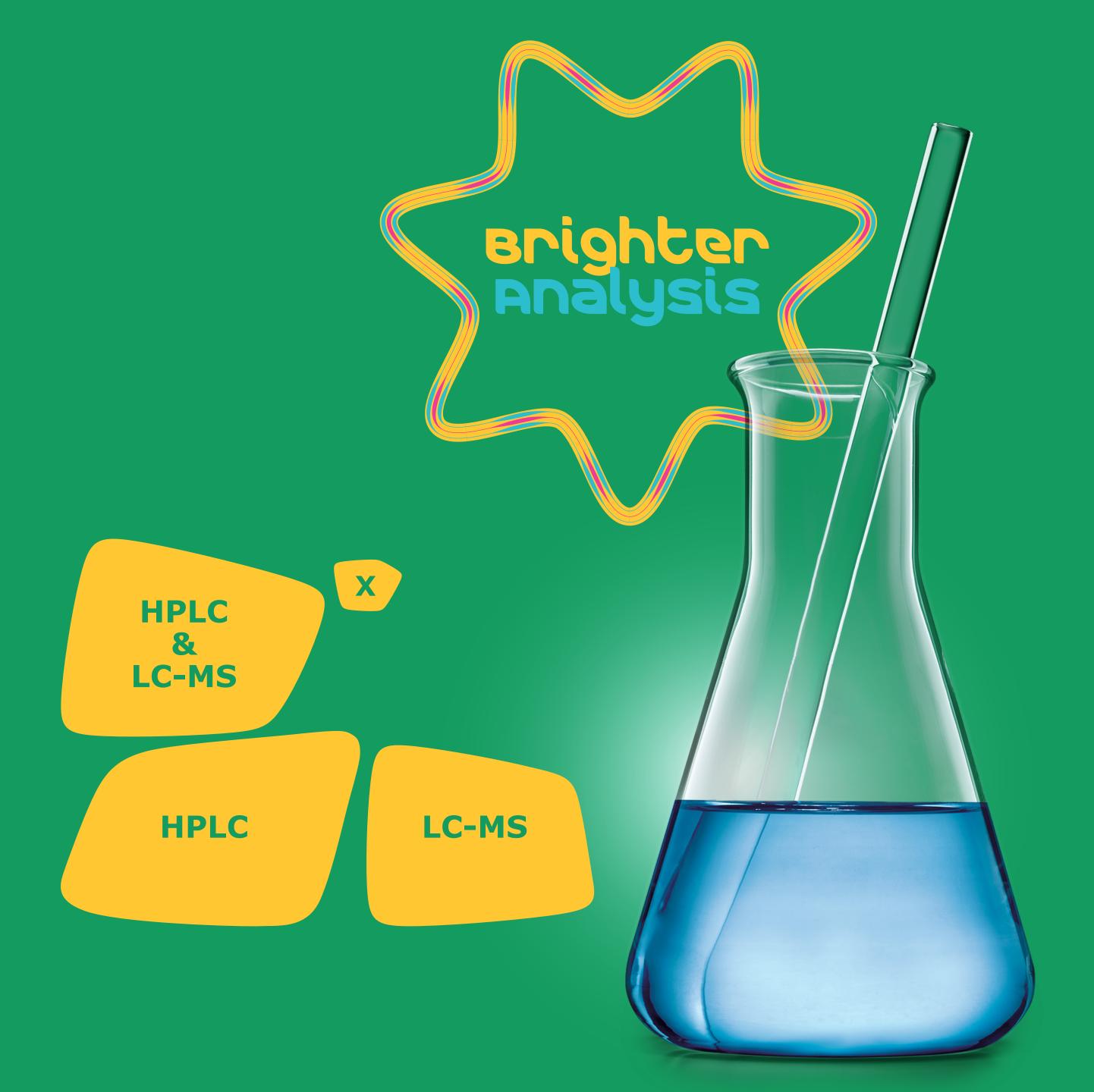
Titration

Trace Analysis

Classical **Analysis**

Safety Essentials





RAILIPORE SIGNA

HPLC



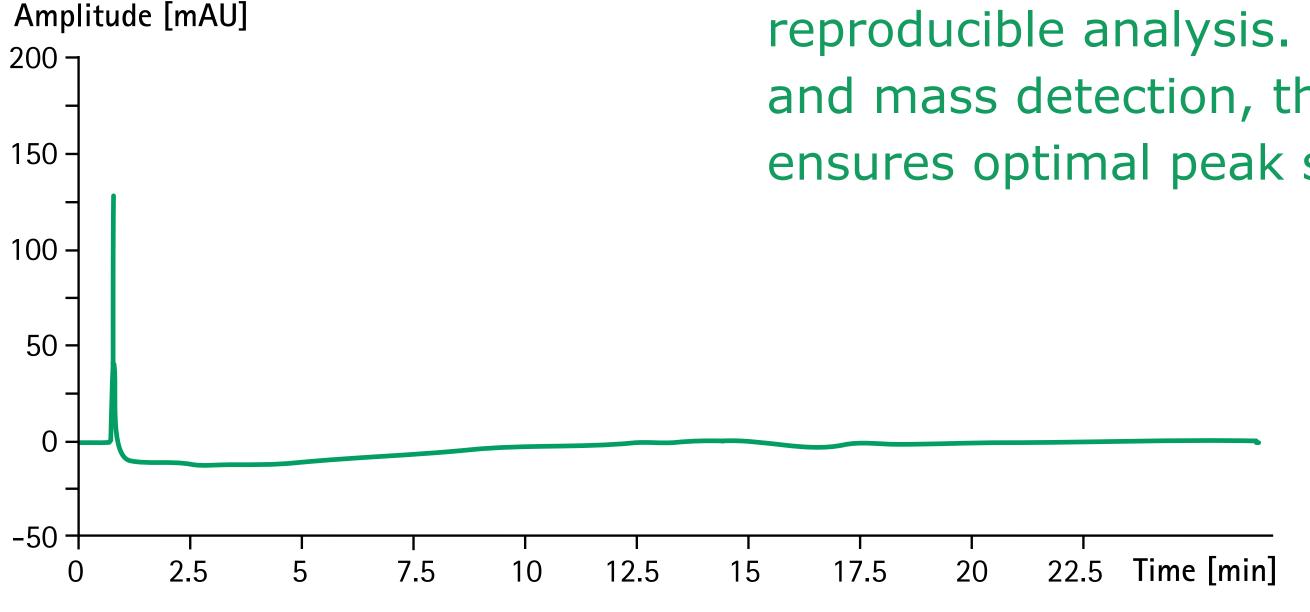
In research and development, pharmaceutical quality control and environmental analysis HPLC requires high-performance solvents and reagents.

HPLC Solvents

HPLC Reagents



With their high degree of UV transmittance, low particle count, low acidity & alkalinity and low evaporation residue level, our HPLC solvents are ideal for high-demanding and reproducible analysis. Being suitable for UV, fluorescence and mass detection, the overall interference free baseline ensures optimal peak separation.



Check out what's new!

HPLC



In research and development, pharmaceutical quality control and environmental analysis HPLC requires high-performance solvents and reagents.

HPLC Solvents

HPLC Reagents



HPLC Reagents

We offer LiChropur® reagents ideal for HPLC analysis. These reagents are tested for inorganic impurities, including Al, Ca, Cu, Fe, K, Mg and Na.

- QC performed using a HPLC suitability gradient test at 220, 254 and 280 nm
- Filled under clean room conditions
- Extensive impurity profile of the product on the Certificate of Analysis

Discover HPLC reagents

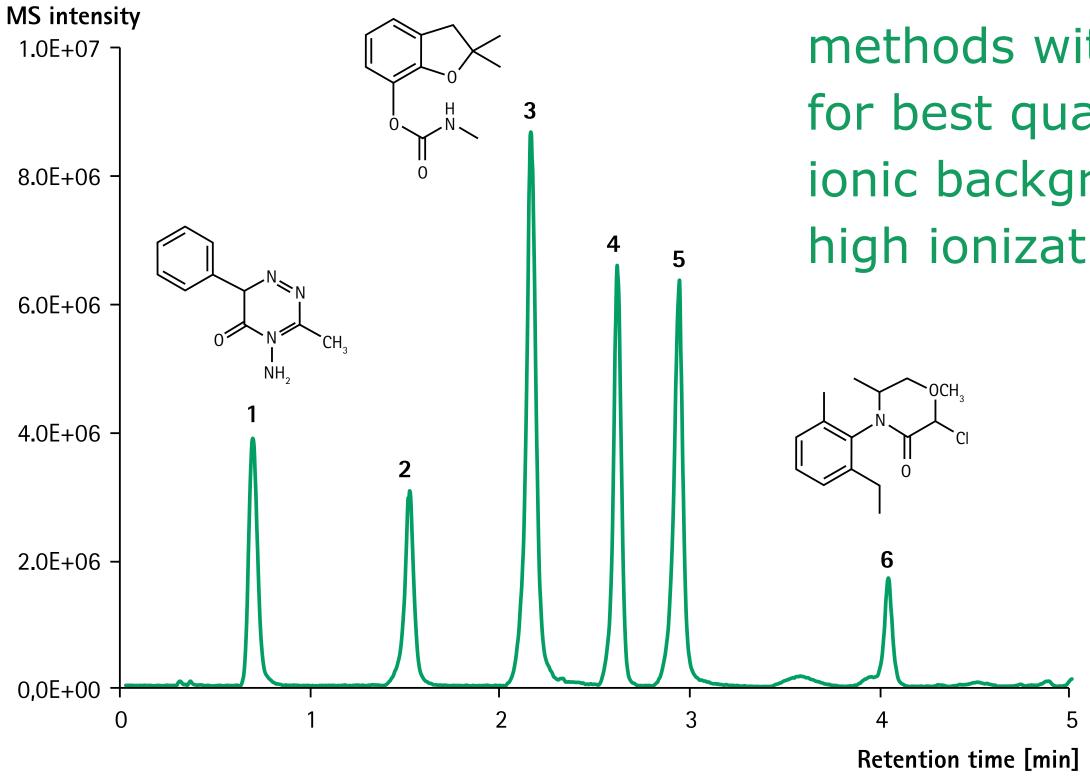
LC-MS



In research and development, pharmaceutical quality control and environmental analysis LC-MS requires high-performance solvents and reagents.

LC-MS Solvents LC-MS Reagents

LC-MS Solvents



Our solvents meet all stringent requirements of LC-MS methods with highest resolution and sensitivity in LC-MS for best quantitative results. Thanks to its low level of ionic background and ion suppression, this quality ensures high ionization efficiency.

Check out what's new!

LC-MS



In research and development, pharmaceutical quality control and environmental analysis LC-MS requires high-performance solvents and reagents.

LC-MS Solvents

LC-MS Reagents



LC-MS Reagents

We offer LiChropur® products specific for LC-MS analysis. These reagents are tested for inorganic impurities, including Al, Ca, Cu, Fe, K, Mg and Na.

- QC performed using a standard Reserpine test
- Filled under clean room conditions
- Extensive impurity profile of the product on the Certificate of Analysis

Discover LC-MS reagents



RAILIPORE SIGNA

GC Solvents



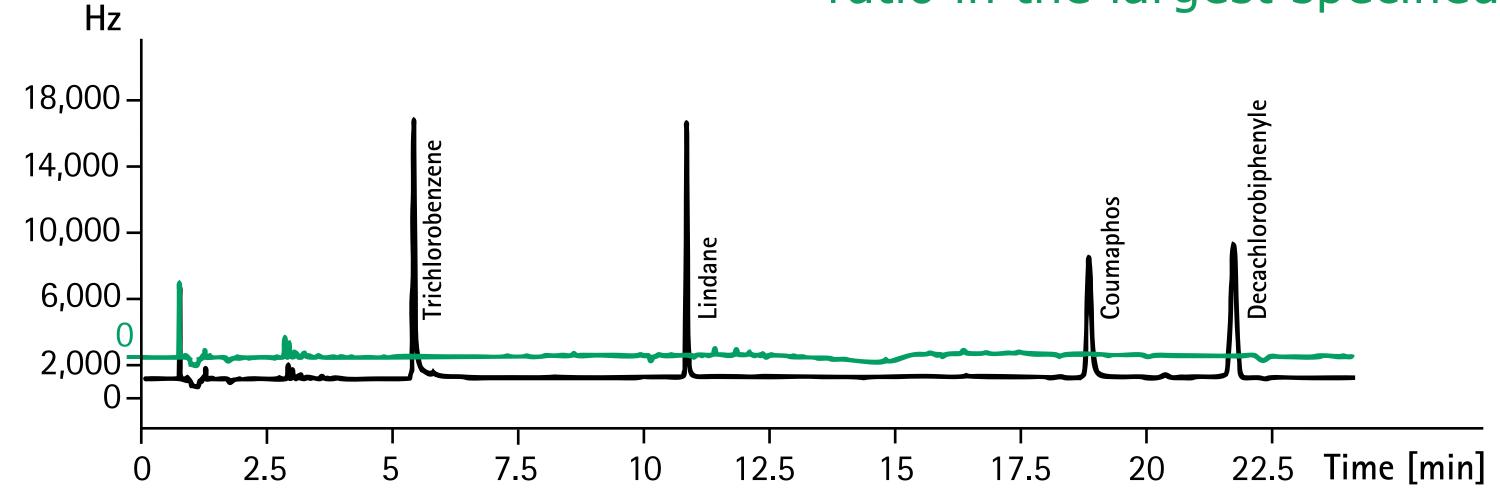
Whether you use ECD, FID, MS or HS – our comprehensive portfolio of GC solvents offers a dedicated product quality for your specific application and detection method.

GC-ECD & FID / GC-MS Solvents

GC Headspace Solvents

GC-ECD & FID / GC-MS Solvents

Our GC solvent qualities are ideal for all gas chromatography applications. These solvents are specially developed and tested for ECD, FID and MS detection and show minimal signal-to-noise ratio in the largest specified retention time range.



Check out what's new!

GC Solvents

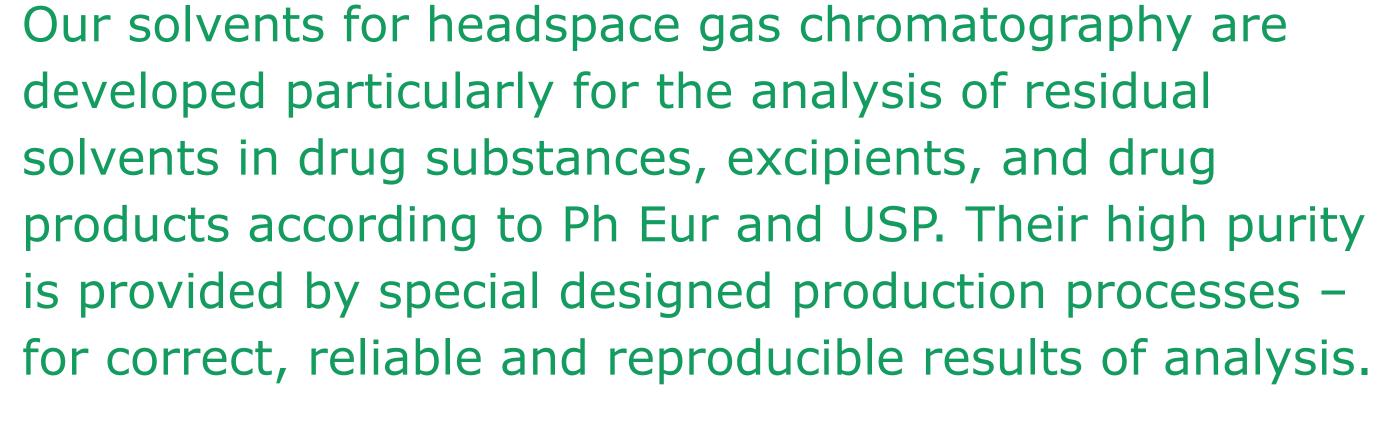


Whether you use ECD, FID, MS or HS – our comprehensive portfolio of GC solvents offers a dedicated product quality for your specific application and detection method.

GC-ECD & FID / GC-MS Solvents

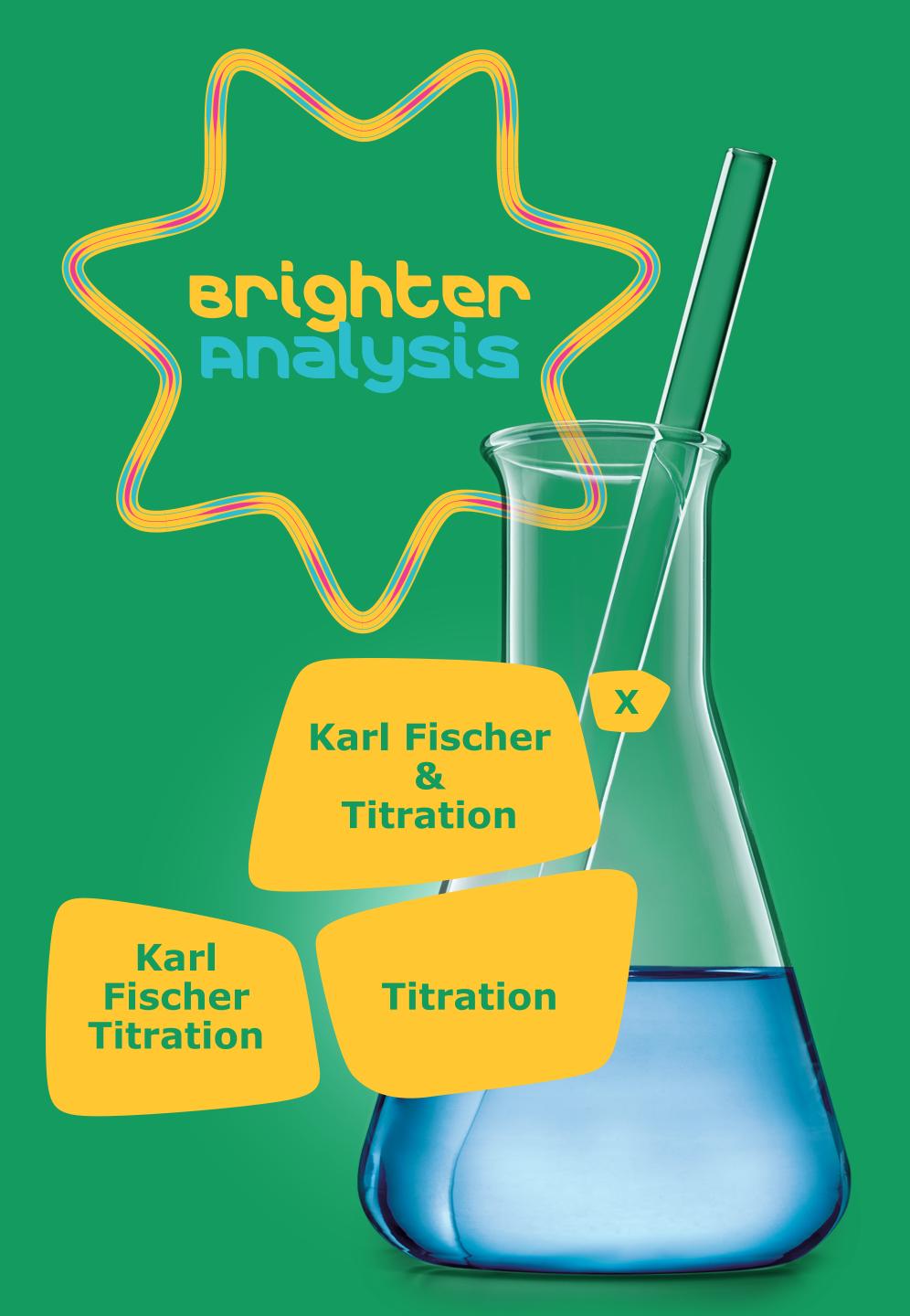
GC Headspace Solvents

GC Headspace Solvents



solvents in drug supported by specific specification of the second in th

Check out what's new!



RAILIPORIE SIGNA



Accurate, reliable, and fast moisture content determination gained from over 40 years of experience in Karl Fischer Titration.

Aquastar[®] **Reagents**

Applications & Support

Volumetry

Coulometry

Water Standards

Aquastar® Reagents

Aquastar® Karl Fischer Reagents – the standard for reproducible results.

Our Aquastar® reagents & standards are distinguished by their excellent quality. From the selection of raw materials & packaging to our stringent production processes and quality control we apply the strictest standards to produce reliable and consistent Karl Fischer reagents.





Accurate, reliable, and fast moisture content determination gained from over 40 years of experience in Karl Fischer Titration.

Aquastar[®] **Reagents**

Applications & Support

Volumetry

Coulometry

Water Standards







Applications & Support

Need help finding the right method for your application? Benefit from our experience and download a personal copy from more than 500 Karl Fischer applications.

Get your application note

For individual support please contact us under:

Aquastar@milliporesigma.com



Accurate, reliable, and fast moisture content determination gained from over 40 years of experience in Karl Fischer Titration.

Aquastar[®] **Reagents**

Applications & Support

Volumetry

Coulometry

Water Standards



Volumetry

Volumetric Karl Fischer titration is the preferred method for moisture determination in samples of high water content (0.1% to 100% water), and is one of the most frequently used methods for water determination.

We offer a broad range of Aquastar® reagents:

- One component reagents
- Two component reagents
- Reagents for Aldehyde and Ketones
- Special reagents for oils and fats

Discover volumetry



Accurate, reliable, and fast moisture content determination gained from over 40 years of experience in Karl Fischer Titration.

Aquastar[®] **Reagents**

Applications & Support

Volumetry

Coulometry

Water Standards



Coulometry

For samples with water content of below 1%, coulometric Karl Fischer titration is the preferred method.

Find a wide range of Aquastar® coulometric reagents for accurate and reproducible results, with titration cells both with and without diaphragms:

- CombiCoulomat Fritless
- CombiCoulomat Frit uses just one reagent for both the anode and cathode chamber
- Coulomat A NC for the anode chamber &
 Coulomat C NC for the cathode chamber

Discover coulometry



Accurate, reliable, and fast moisture content determination gained from over 40 years of experience in Karl Fischer Titration.

Aquastar[®] **Reagents**

Applications & Support

Volumetry

Coulometry

Water Standards

Water Standards

For precise water determination every time; our Aquastar® water standards can be used for titer determination and instrument check.

Qualified in our DIN EN ISO/IEC 17025 accredited laboratory, you can rely on our Aquastar® standard reference materials.

- Water standards in ampoules, including oil standard (15 to 30 ppm)
- Water standard oven 1%
- Lactose standard 5%
- Di-Sodium tartrate dihydrate 15.55%

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Aquastar***
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Discover water standards



Precisely adjusted, high-quality volumetric solutions for dependable titration and analysis.

Titripur®

Packaging

Titripac®

Volumetric Standards

Indicators

Titripur® Volumetric Solutions

Our range of Titripur® volumetric solutions offer outstanding purity, quality and reliability. For metal or impurity analysis, assays, or concentration determination. With our first-rate volumetric solutions, you can be sure that your titrations always meet the most rigorous demands.

Consistently high quality – and the certification to prove it.



Discover titration



Precisely adjusted, high-quality volumetric solutions for dependable titration and analysis.

Titripur®

Packaging

Titripac®

Volumetric Standards

Indicators



We believe that sophisticated packaging is essential to ensure the highest quality. So we only use glass and plastic grades that do not alter any of the products characteristics during their shelf life in unopened bottles.

Optimized for every application; our volumetric solutions are available in a variety of formats to fit your needs:

- Titrisol® ampoules as concentrates
- Ready-to-use PE and glass bottles & canisters in different pack sizes
- Our unique and sophisticated Titripac[®] packaging

Discover volumetric solutions

Discover Titripur®



Precisely adjusted, high-quality volumetric solutions for dependable titration and analysis.

Titripur®

Packaging

Titripac®

Volumetric Standards

Indicators

Titripac®

Our innovative packaging solution that saves time, money, and protects the environment is also winner of the Green Good Design Award 2016.

Designed to make titration more reliable and less wasteful, solutions can be used from the first to the last drop.

- No contamination hermetically sealed
- Reduction of titer determinations
- Easy to use with integrated withdrawal tap
- Environmentally friendly disposal

Discover Titripac®

Discover why Titripac® won





Precisely adjusted, high-quality volumetric solutions for dependable titration and analysis.

Titripur®

Packaging

Titripac®

Volumetric Standards

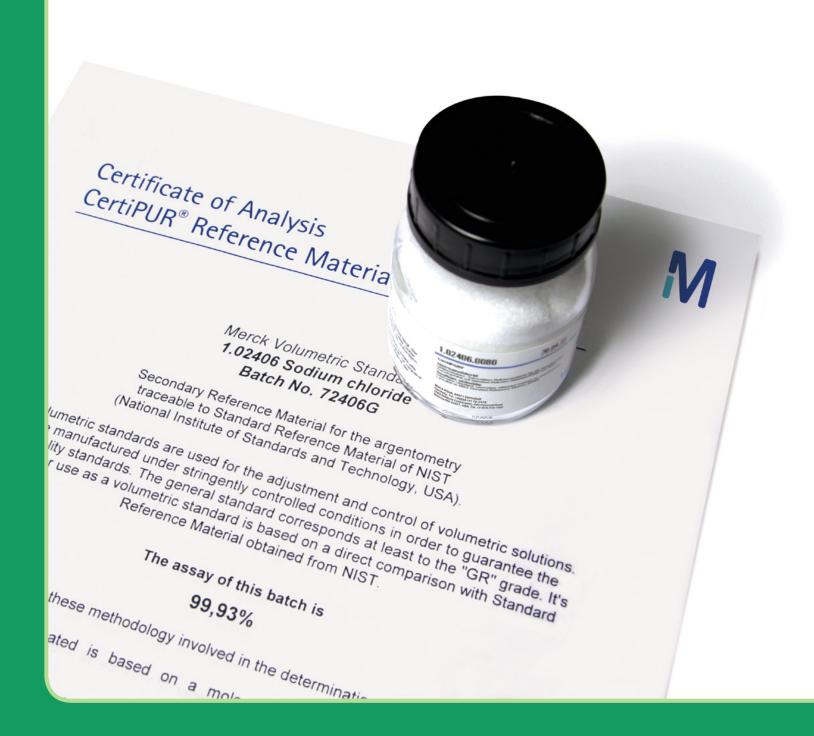
Indicators



Certipur® volumetric standards are reliable and certified reference materials which ensure precise titration results. Designed to make titration more reliable and less wasteful, solutions can be used from the first to the last drop.

- Directly traceable to primary standard reference materials from the NIST (National Institute of Standards and Technology, USA)
- Qualified in our DIN EN ISO /IEC 17025 accredited laboratory

Discover volumetric standards



Precisely adjusted, high-quality volumetric solutions for dependable titration and analysis.

Titripur®

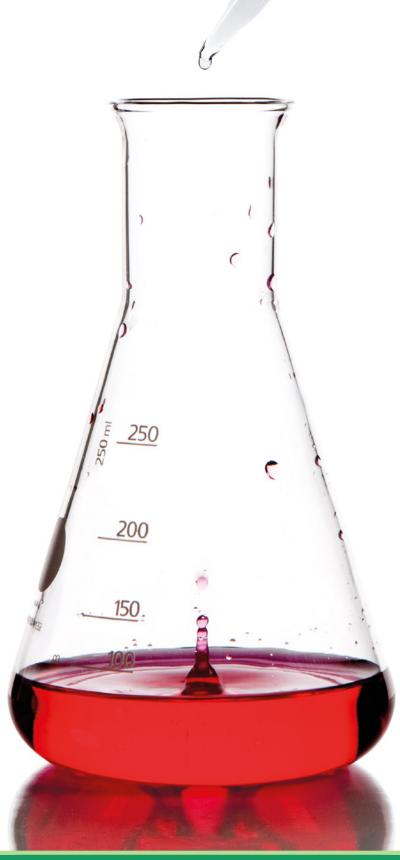
Packaging

Titripac®

Volumetric Standards

Indicators





Indicators

For manual titration, indicators show the endpoint of the titration through easily recognizable visual changes such as color change, clouding or fluorescence. Tailored to the exact requirements of your applications, we offer a wide range of high quality indicators:

- Acid-Alkali (pH) indicators
- Complex or metal indicators
- Fluorescence indicators
- Redox indicators
- Special application indicators

Discover our indicators



Quality Grades



Find the suitable quality grade for the perfect match.

High Purity Acids

High Purity Salts

High Purity Fluxes



High Purity Acids

Ultrapur acids and bases meet the highest demands of ultra-trace analysis in the ppt range Suprapur® acids and bases are ideal for trace elemental analysis e.g. AAS and ICP in the ppb range.

Discover high purity acids

Quality Grades



Find the suitable quality grade for the perfect match.

High Purity Acids

High Purity Salts

High Purity Fluxes

Suprapur® EMSURE® Premium Grade EMPARTA® Standard Grade EMPLURA® Basic Grade

High Purity Salts

Suprapur® salts are most suitable for sample preparation in trace elemental analysis. Have confidence in your analytical results.

- High batch-to-batch consistency
- Certificate of Analysis (CoA)
 with detailed impurity profile

Discover high purity salts

Find the suitable quality grade for the perfect match.

High Purity Acids

High Purity Salts

High Purity Fluxes



High Purity Fluxes

Spectromelt® products are high quality reagents for sample preparation in X-ray Fluorescence (XRF) analysis. The elemental impurities are determined and listed in the Certificate of Analysis.

- High purity and batch-to-batch consistency
- Homogeneous samples
- Increases measurement precision

Discover high purity fluxes

Use certified reference materials for your calibration.

ICP & AAS

Auxiliaries for AAS



ICP & AAS

For accredited testing labs, the use of reliable and traceable Certified Reference Materials (CRMs) for calibration is demanded by ISO/IEC 17025.

- Tested and manufactured under
 ISO/IEC 17025/ISO Guide 34 double accreditation
- Directly traceable to primary reference material from NIST
- Full Certificate of Analysis

The recommended reagents for trace analysis are Suprapur® and Ultrapur acids.

Select your ICP standards

Select your AAS standards

ICP & AAS Analysis



Use certified reference materials for your calibration.

ICP & AAS

Auxiliaries for AAS



Auxiliaries for AAS

For Atomic Absorption Spectroscopy (AAS) analysis, we offer reagents for both sample preparation and calibration. Our portfolio of auxiliary reagents for optimizing analysis conditions comprises selected matrix modifiers and spectroscopic buffers reduce interference for AAS measurement.

- Matrix modifiers for Graphite Furnace AAS (GF-AAS)
- High-purity spectroscopic buffers for Flame AAS (F-AAS)

The recommended reagents for trace analysis are Suprapur® and Ultrapur acids.

Select your auxiliaries for AAS

XRF Analysis



For precise analysis, use our high purity and batch consistent XRF product portfolio for fusion, grinding and tableting.

Spectromelt®

Spectromelt® A + B

Spectromelt® C



Spectromelt®

Spectromelt® materials for fluxing or pressing of powder tablets for X-ray fluorescence analysis (XRF). The purity of Spectromelt® borates gives the necessary degree of precision and our grinding aid materials are specially developed for automated sample preparation.

- Fluxing agents are available as granulate or fused material
- Spectromelt® reagents for grinding and tableting aid
- Spectromelt® tablets can be used for automated sample preparation

Discover Spectromelt® reagents

XRF Analysis



For precise analysis, use our high purity and batch consistent XRF product portfolio for fusion, grinding and tableting.

Spectromelt®

Spectromelt® A + B

Spectromelt® C

Spectromelt® A + B

Spectromelt® A (Lithium) and B (Sodium) borates facilitate very homogeneous samples, precise analyses and a reduced need for instrument adjustments.

- Available as granulated material or as fused particles
- Low loss on ignition
- Also available with integrated non-wetting-agent
- Analyzed for inorganic trace impurities with a high batch-to-batch consistency

Select your fluxes



For precise analysis, use our high purity and batch consistent XRF product portfolio for fusion, grinding and tableting.

Spectromelt®

Spectromelt[®] A + B

Spectromelt® C



Spectromelt® C

Grinding and tableting – tableting the sample is an alternative to fusion. The Spectromelt® C-series is especially developed as a grinding and tableting aid. In automated sample preparation of powder samples speed of analysis is an important factor.

- Spectromelt® C10, C15 and C20 are offered as tablets with a weight of 333 mg each for automated sample preparation
- The new Spectromelt® C15 MP micropowder can be used as a grinding and tableting aid

Select your tableting aid

High Purity Acids & Salts



Detect your analyte, not the reagent impurities.

Suprapur® Acids, Bases

Ultrapur Acids

Suprapur® Salts

Suprapur® Acids, Bases

Suprapur® acids and bases are ideal for sample preparation and production of calibration series in instrumental analysis for the use of trace analysis in the ppm – ppb range.

- Filled under clean room conditions
- Bottles are conditioned before filling
- Different premium packaging materials
- Quality Control after filling



Select your Suprapur® acids and bases

High Purity Acids & Salts



Detect your analyte, not the reagent impurities.

Suprapur® Acids, Bases

Ultrapur Acids

Suprapur® Salts



Ultrapur reagents meet the highest demands for ultra-trace instrumental analysis in the ppb to ppt range, because any impurity can compromise measurement accuracy.

- Filled under clean room conditions
- Bottles are conditioned before filling
- Premium packaging materials
- Quality Control after filling



Select your Ultrapur acids

High Purity Acids & Salts



Detect your analyte, not the reagent impurities.

Suprapur® Acids, Bases **Ultrapur Acids**

Suprapur® Salts

Suprapur® Salts

For instrumental analysis we offer high purity of inorganic salts for sample preparation. High purity salts are produced under strict conditions in a clean room area ensuring purity and batch-to-batch consistency of our products.

- Purity 99.99% or up to 99.9999%
- Extensive impurity profile of the product on the Certificate of Analysis
- Suitable for sample preparation for elemental trace analysis

Select your Suprapur® salts



Solvents



Your one-stop supplier for solvents – including documentation, secure packaging and withdrawal systems.

Classical Solvents

Dried Solvents

Preparative Chromatography

Greener Solvent Alternatives

Classical Solvents

Distinguished by exceptional quality and reliability, our classical solvents undergo strict controls and continuous development to meet growing regulations and customer requirements. Available in EMSURE®, EMPARTA® and EMPLURA® quality grades.

- Outstanding quality for reliable analytical results
- Wide range of pack sizes and packaging materials
- Withdrawal systems available

Get your "Empower your lab" catalog

Discover safe solvent handling





Your one-stop supplier for solvents – including documentation, secure packaging and withdrawal systems.

Classical Solvents

Dried Solvents

Preparative Chromatography

Greener Solvent Alternatives



Dried Solvents

Moisture-sensitive applications demand high-purity solvents with the lowest possible water content. Our ready-to-use SeccoSolv® dried solvents are designed to fulfill the most challenging requirements to ensure reliable, and reproducible results.

- Innovative SeccoSept® septum cap
- Fully-sealed returnable stainless steel barrels (Europe only)
- IBC container available on request (Europe only)

Discover the benefits of SeccoSept®

Select your SeccoSolv® dried solvents

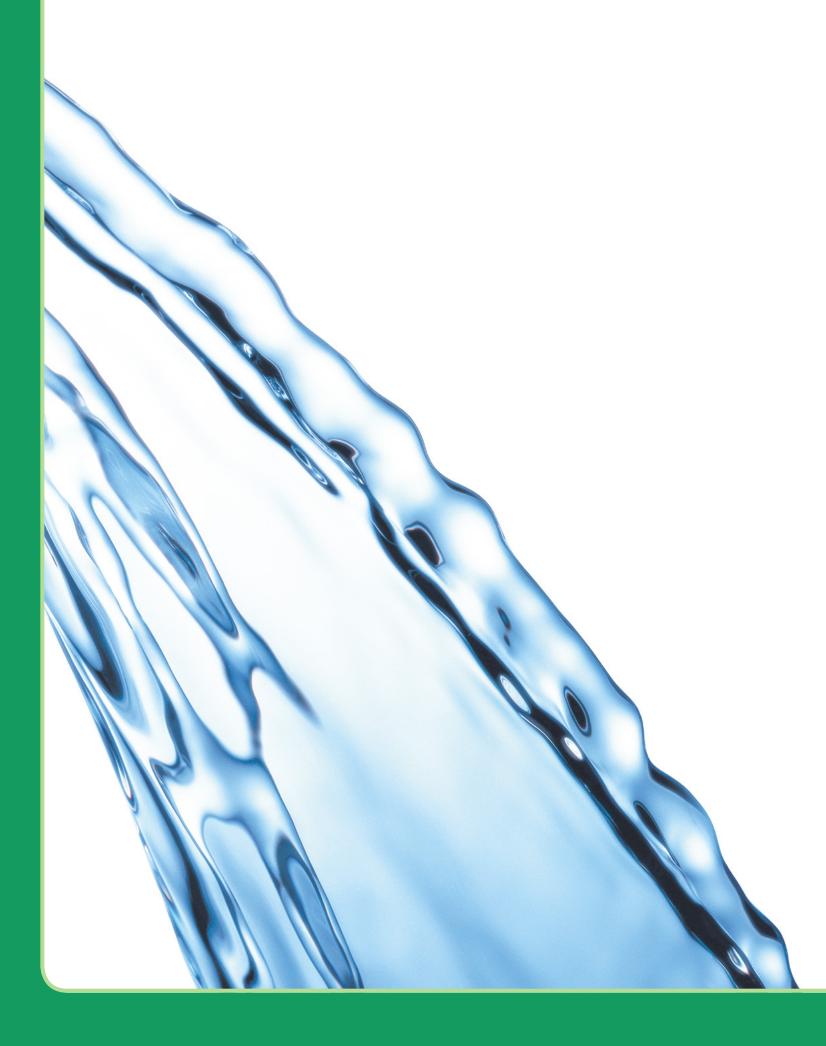
Your one-stop supplier for solvents – including documentation, secure packaging and withdrawal systems.

Classical Solvents

Dried Solvents

Preparative Chromatography

Greener Solvent Alternatives



Solvents for Preparative Chromatography

Prepsolv® solvents are tailored to the requirements of preparative HPLC to facilitate scale-up from analytical to preparative separations.

- Low evaporation residue
- Low water content
- Optimal protection of columns
- High flexibility in pack size and supply concepts

Select your Prepsolv® solvents

Solvents



Your one-stop supplier for solvents – including documentation, secure packaging and withdrawal systems.

Classical Solvents

Dried Solvents

Preparative Chromatography

Greener Solvent Alternatives



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:



- 2-Methyl tetrahydrofuran
- Cyclopentyl methyl ether
- Ethyl lactate



Discover benefits of greener solvents

Inorganics



From acids to salts: enjoy the convenience of internationally accepted basic reagents from one trusted source.

Salts

Acids

Caustics & Bases

Metals & Oxides

Insight





Salts

Salts for analytical use are manufactured under strictly controlled conditions almost exclusively at our facilities in Darmstadt, Germany.

- Outstanding analytical purity
- Wide range of salts for analytical purposes

Discover salts with enhanced flowability

Discover our complete portfolio of salts

From acids to salts: enjoy the convenience of internationally accepted basic reagents from one trusted source.

Salts

Acids

Caustics & Bases

Metals & Oxides

Insight



Our acids for analysis offer the highest possible quality, the greatest safety and most optimized packaging. Our products undergo strict quality checks using the most sensitive analytical instruments and methods.



Discover safe working with HF

What's new with acids in Safebreak bottles?

Inorganics

From acids to salts: enjoy the convenience of internationally accepted basic reagents from one trusted source.

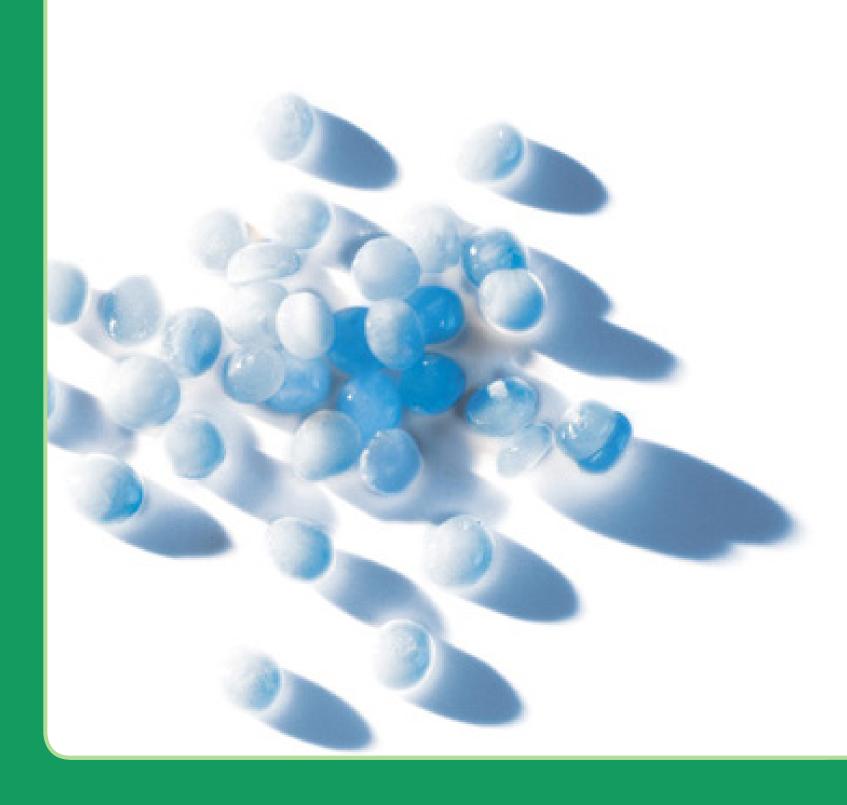
Salts

Acids

Caustics & Bases

Metals & Oxides

Insight



Caustics & Bases

Our premium quality caustic alkalis and bases are produced using specially selected raw materials. So you can benefit from high purity and batch-to-batch consistency enabling reliable, reproducible analytical results.

- Outstanding, defined quality
- Pellets of defined, uniform size
- Extremely low values of impurities

Watch our video

Discover caustics and bases

From acids to salts: enjoy the convenience of internationally accepted basic reagents from one trusted source.

Salts

Acids

Caustics & Bases

Metals & Oxides

Insight



Metals and metal oxides are suitable for a multitude of applications in R&D, production and quality control. Selected raw materials, state-of-the-art production technology, and stringent quality management ensure that we deliver you only premium products with consistently high purity and quality.



Discover our range of metals and oxides

From acids to salts: enjoy the convenience of internationally accepted basic reagents from one trusted source.

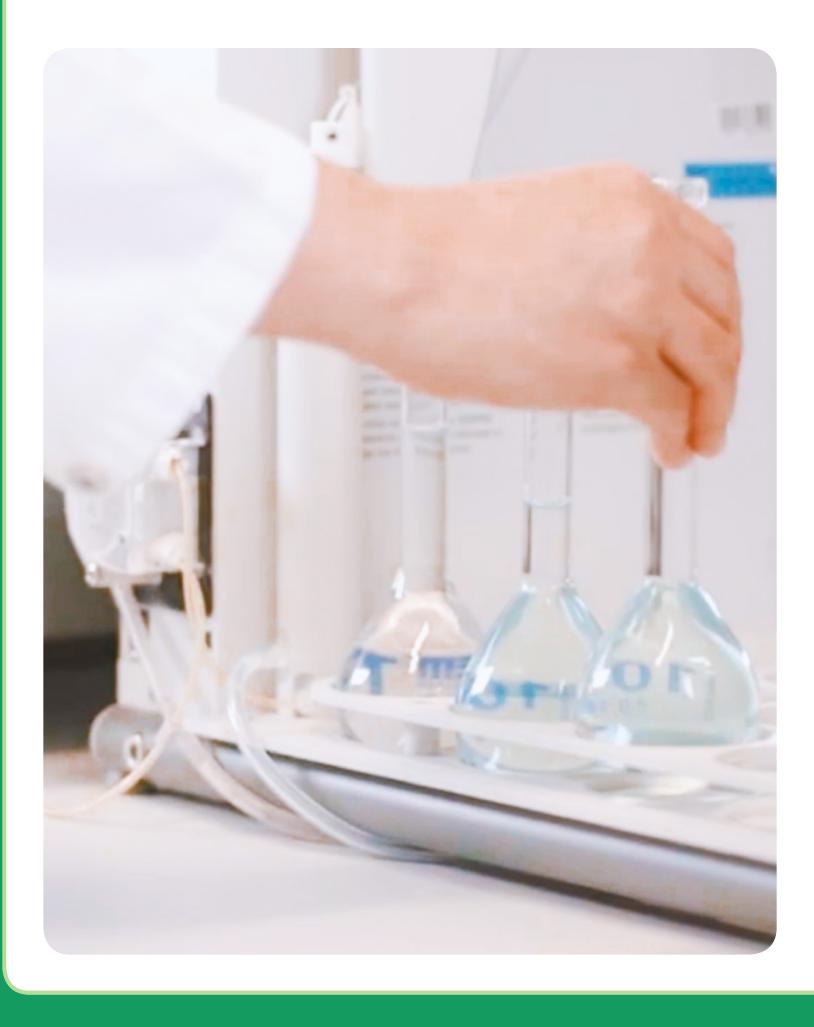
Salts

Acids

Caustics & Bases

Metals & Oxides

Insight



Insight

Have a look in our latest video about Classical Inorganics. You will learn more about our facilities, packaging development, quality control, and how analytical reagents are produced.

Get your "Empower your lab" catalog

Watch our video



Each application poses unique demands – That's why we offer Inorganics and Solvents clearly structured in different quality grades.

EMSURE® for analysis

EMPARTA® for analysis

EMPLURA®



EMSURE® for analysis

EMSURE® inorganics and solvents are our premium-grade products – optimized for critical and regulated analyses and highly demanding lab applications.

- Highest quality
- Widest scope of specifications
- Full compliance with international regulations

Discover EMSURE® – our premium-grade

Learn more about the EMSURE® Quality Documentation

Quality Grades



Each application poses unique demands – That's why we offer Inorganics and Solvents clearly structured in different quality grades.

EMSURE® for analysis

EMPARTA® for analysis

EMPLURA®



EMPARTA® for analysis

EMPARTA® products are designed for routine tasks in the analytical laboratory. These standard-grade products cover all important parameters and offer full ACS compliance.

- Standard quality for routine lab applications
- Efficient and cost-effective solution

Discover EMPARTA® – our standard-grade

Get your "Empower your lab" catalog

Each application poses unique demands – That's why we offer Inorganics and Solvents clearly structured in different quality grades.

EMSURE® for analysis

EMPARTA® for analysis

EMPLURA®



EMPLURA®

EMPLURA® products are your cost-efficient choice for preparative lab applications, standard production processes, and cleaning purposes. These basic-grade inorganic reagents and solvents:

- Offer adequate specifications with most common parameters
- Are available in small pack sizes as well as in bulk quantities

Discover EMPLURA® – our basic-grade

Get your "Empower your lab" catalog

X

Analytical reagents are specified in accordance with various international regulations.

QA/QC

Compliance

Documentation

Pharmaceutical Analysis

Purity



QA/QC

We don't just promise the highest quality, we prove it! Through stringent testing at our state-of-the-art labs.

- Our analytical competence
- Your analytical confidence
- Three quality grades to empower all applications

Get more information

X

Analytical reagents are specified in accordance with various international regulations.

QA/QC

Compliance

Documentation

Pharmaceutical Analysis

Purity

Compliance

Our analytical reagents are specified in accordance with various international regulations depending on their quality grade. This way, we make sure their specifications suit the regulatory environment you work in.

- American Chemical Society (ACS)
- Reagents section of the European Pharmacopoeia (Reag. Ph Eur)
- International Organization for Standardization (ISO)



Learn more about multi-standard compliance



Analytical reagents are specified in accordance with various international regulations.

QA/QC

Compliance

Documentation

Pharmaceutical Analysis

Purity



Documentation

Especially for our EMSURE® grade we offer an unrivalled documentation service in the field of analytical reagents. With EMSURE® Quality Documentation, you'll always be ready for demanding lab applications and audits.

- Less administration work
- Details on test protocols save analytical time
- Faster preparation for audits

Learn more about EMSURE® Quality Documentation

X

Analytical reagents are specified in accordance with various international regulations.

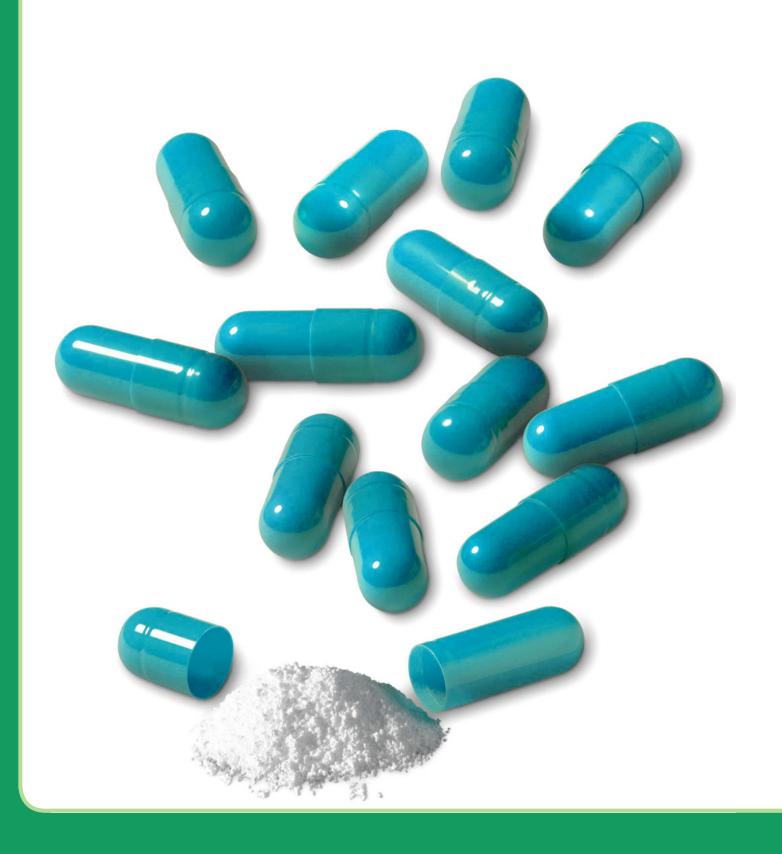
QA/QC

Compliance

Documentation

Pharmaceutical Analysis

Purity



Pharmaceutical Analysis

Our analytical reagents meet the authoritative quality guidelines for pharmacopoeia analysis worldwide. Our analytical reagents are not only specified in accordance with the American ACS standard but also Reag. Ph Eur.

- Audit acceptance
- Lower validation efforts

Discover all reagents for pharmacopoeia analysis

Analytical reagents are specified in accordance with various international regulations.

QA/QC

Compliance

Documentation

Pharmaceutical Analysis

Purity



Purity

Our Solvents and Inorganics are renowned for their outstanding quality and purity. Every step in our supply chain is subject to the most stringent controls and fully documented to give you complete confidence in your analysis.

- Outstanding chemical purity
- Extremely low limiting values
- Reliable qualitative and quantitative analyses

Discover highly pure chemicals



Besides offering premium chemicals and reagents, we have invested decades into developing the most advanced packaging concepts in the field of chemistry.

Packaging Know-How

Glass & HDPE Safebreak & HF bottle

Safety Accessories

Packaging Know-How

Our 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.

- Application-oriented packaging materials and volumes
- Safe and convenient handling, storage and transportation
- Optimal protection of chemicals and reagents from contamination

Discover our packaging variety





Besides offering premium chemicals and reagents, we have invested decades into developing the most advanced packaging concepts in the field of chemistry.

Packaging Know-How

Glass & HDPE Safebreak & HF bottle

Safety Accessories



Glass & HDPE

As a valuable inert material, glass bottles are still the most preferred packaging for reagents, but there is always the risk of glass breakage. Our innovative HDPE bottle links safety, environmental protection, and cost savings along the entire process chain.

- No risk of breakage
- Integrated carrier handle for optimal handling
- Optimal center of gravity shift for convenient pouring
- Easy and environmentally-friendly disposal (no polystyrene outer packaging)

Discover acids, bases and solvents in HDPE bottles



Besides offering premium chemicals and reagents, we have invested decades into developing the most advanced packaging concepts in the field of chemistry.

Packaging Know-How

Glass & HDPE Safebreak & HF bottle

Safety Accessories







Safebreak & HF bottle

Our Safebreak bottle for acids is a glass bottle coated with polyethylene and can withstand considerable impact force.

- Should breakage occur, liquid acid and glass splinters are reliably contained
- Can be reused and ecologically disposed

We also supply hydrofluoric acid in a special 500 mL dosage bottle, equipped with a pouring aid.

- Allows drop-by-drop withdrawal
- Last drop stays reliably in the bottle

Learn more about safety bottles for acids

Discover our range of acids



Besides offering premium chemicals and reagents, we have invested decades into developing the most advanced packaging concepts in the field of chemistry.

Packaging Know-How

Glass & HDPE Safebreak & HF bottle

Safety Accessories



Safety Accessories

To further protect our customers during daily work, we offer several safety accessories specially designed for our S40 bottles.

- Withdrawal systems and level sensors for solvents
- Safety carriers for glass bottles
- Pouring and opening aids
- Label sets acc. to GHS, DIN EN ISO and GLP

Explore our safety accessories





For a safe and contamination-free work environment, our sophisticated handling and safety products for solvents and inorganics will give you peace of mind.

Bottle Safety

Bottle Withdrawal

Container Safety

Container Withdrawal

Fixed Installations

Customized



Bottle Safety

Daily handling of hazardous goods demands high health protection. For breakable glass bottles in particular, there are several additional safety products to help you to comply with laws and regulations and make daily lab work safer and more convenient.

- Safety carriers
- Opening key, pouring aid and safety stand
- HPLC-bottle adapters
- Labeling according to international regulations

Watch our video "Safety in the lab"



For a safe and contamination-free work environment, our sophisticated handling and safety products for solvents and inorganics will give you peace of mind.

Bottle Safety

Bottle Withdrawal

Container Safety

Container Withdrawal

Fixed Installations

Customized



Bottle Withdrawal

Ensure safe and easy handling and contamination-free withdrawal of organic solvents with our broad range of withdrawal systems and accessories.

- Withdrawal systems
- Level sensors

Select your withdrawal system



For a safe and contamination-free work environment, our sophisticated handling and safety products for solvents and inorganics will give you peace of mind.

Bottle Safety

Bottle Withdrawal

Container Safety

Container Withdrawal

Fixed Installations

Customized



Container Safety

The majority of very critical solvent accidents are caused by static electricity. Solvents in containers from 10 L (drums/barrels) need to be treated with the highest safety considerations e.g. discharge static electricity properly.

- Antistatic device
- Opening key
- Gas-reducing valves
- Wall ducts and nozzle clamps

Watch our video "Safety in the lab"



For a safe and contamination-free work environment, our sophisticated handling and safety products for solvents and inorganics will give you peace of mind.

Bottle Safety

Bottle Withdrawal

Container Safety

Container Withdrawal

Fixed Installations

Customized



Container Withdrawal

Designed to meet all relevant safety regulations, our tailor-made withdrawal systems ensure safe, easy and efficient withdrawal for every application.

- Maximum user safety
- Easy and contamination-free handling of solvents and inorganics
- Application orientated solutions and individual installations
- Ecological and economic benefits

Select your withdrawal system



For a safe and contamination-free work environment, our sophisticated handling and safety products for solvents and inorganics will give you peace of mind.

Bottle Safety

Bottle Withdrawal

Container Safety

Container Withdrawal

Fixed Installations

Customized



Fixed Installations

Optimize your work processes with regard to safety and efficiency. Where large volumes of solvents are turned around, delivery from a central safety cabinet to the point of use (e.g. lab fume hood) through a permanent supply circuit is one of the most rational ways of working.

- Standardized installations available
- Installation support

Discover safe handling



For a safe and contamination-free work environment, our sophisticated handling and safety products for solvents and inorganics will give you peace of mind.

Bottle Safety

Bottle Withdrawal

Container Safety

Container Withdrawal

Fixed Installations

Customized





Customized

Individual environments and applications require individual withdrawal options. As the pioneer in developing high professional and innovative safety equipment we are always able to provide additional options for sustainable process automation.

- Individual planning
- Customized installation support

Select your customized information



Protect your work, your personnel and the environment with our reliable, residue-free and biodegradable cleaning solutions.

Extran®

Specialties



Extran®

With thorough, residue-free cleaning, Extran® products ensure that everything that comes into contact with chemicals or biological substances must be free of impurities, both before and after use. Trust our range of all-purpose detergents for manual cleaning or automated cleaning.

- Constant product quality and composition
- Free of scent, dyestuff, oxidants, chlorine, enzymes and NTA
- Technical application and validation support
- Biodegradable and toxin-free

Select your Extran® products

Protect your work, your personnel and the environment with our reliable, residue-free and biodegradable cleaning solutions.

Extran®

Specialties



Specialties

Effective solutions for tough jobs: Whether you require a mild or strong cleaning agent, our high-quality products help you achieve reliable results. Save valuable time and effort in your daily lab work:

- Chromosulfuric acid
- Sodium hydroxide solution

Select your specialties



Safety, simplicity and sustainability – our extensive portfolio for essential applications, e.g. drying, purification, absorption and indication of reactions.

Spillage Absorption

Absorption & Filtration

Drying

Purification & Sample Prep

Indicators



Spillage Absorption

Accidental spills of hazardous liquids can happen in any lab. With Chemizorb®, you can remove harmful, aggressive or other unpleasant liquids quickly, safely and without harming the environment.

Get your Inorganics catalog

Select your Chemizorb® products



Safety, simplicity and sustainability – our extensive portfolio for essential applications, e.g. drying, purification, absorption and indication of reactions.

Spillage Absorption

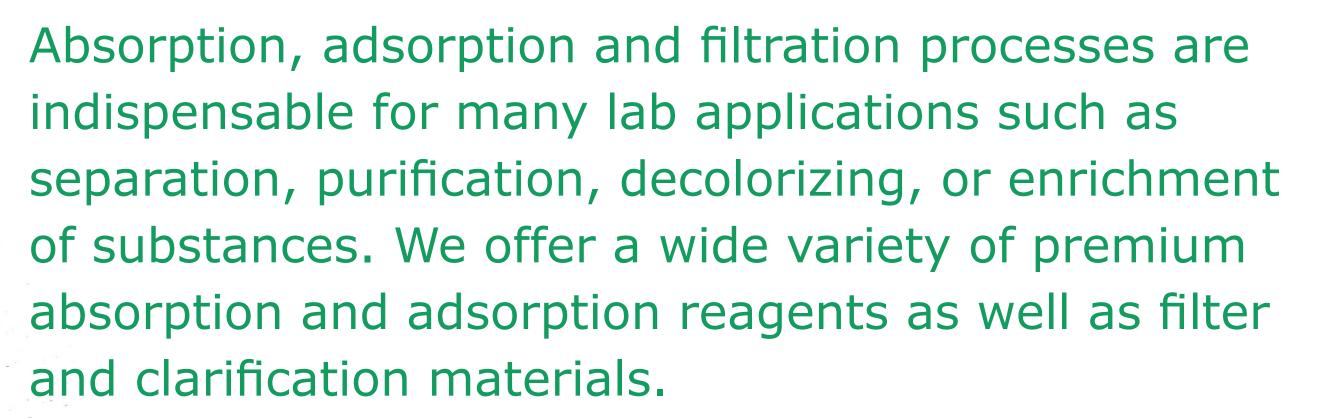
Absorption & Filtration

Drying

Purification & Sample Prep

Indicators

Absorption & Filtration





Get your Inorganics catalog

Select your absorption & filtration products



Safety, simplicity and sustainability – our extensive portfolio for essential applications, e.g. drying, purification, absorption and indication of reactions.

Spillage Absorption

Absorption & Filtration

Drying

Purification & Sample Prep

Indicators



Our drying agents help to protect your valuable goods against moisture and mold formation, both on long transport routes as well as during storage. Our diverse product range is the ideal choice whenever drying of gaseous, liquid or solid substances is required.

- Reduce costs by increasing the longevity of your products
- Convenient and safe options, e.g. desiccant sachets, absorption tubes, molecular sieves without carcinogenic blue gel indicators

Get your Inorganics catalog

Select your drying agents





Safety, simplicity and sustainability – our extensive portfolio for essential applications, e.g. drying, purification, absorption and indication of reactions.

Spillage Absorption

Absorption & Filtration

Drying

Purification & Sample Prep

Indicators



Purification & Sample Prep

Routine laboratory work involves purifying, enriching and separating samples for analytical purposes. Our products cover various chemical and physical methods as well as an array of other applications:

- Removing residues from gases
- Decalcification, sealing, lubrication
- Separation and stabilization
- Reaction and filling aids

Get your Inorganics catalog

Select your purification & sample prep products



Safety, simplicity and sustainability – our extensive portfolio for essential applications, e.g. drying, purification, absorption and indication of reactions.

Spillage Absorption

Absorption & Filtration

Drying

Purification & Sample Prep

Indicators



Indicators

Indicators are used in laboratories to observe chemical reactions. Whether for monitoring a chemical status, change of reaction or the end-point of a titration, you can rely on our large portfolio of indicators for highly accurate results.

- Acid-alkali indicators / pH indicators
- Redox indicators
- Complex / metal indicators
- Fluorescence indicators and special applications

Get your Inorganics catalog

Select your pH indicators



Certipur® buffer solutions & substances - certified reference materials according to ISO Guide 34, the gold standard for a reliable pH calibration.

Accreditation

Secondary Buffers

Ready-to-use Buffers

Buffers in Sachets

Buffers in Titripac[®]

Buffers according to USP & Ph. Eur.



Accreditation

Certipur® buffer solutions and substances are now accredited as certified reference material according to ISO Guide 34. Along with our existing ISO/IEC 17025 accreditation as a testing and calibration laboratory, we now have the highest possible quality standard for certified reference materials.



Certipur® buffer solutions & substances - certified reference materials according to ISO Guide 34, the gold standard for a reliable pH calibration.

Accreditation

Secondary Buffers

Ready-to-use Buffers

Buffers in Sachets

Buffers in Titripac[®]

Buffers according to USP & Ph. Eur.

Secondary Buffers

Certified secondary buffers solutions & substances are employed for accurate calibration and monitoring of pH instruments and for control of other buffer solutions. Measured according to NIST, IUPAC, DIN, USP & Ph. Eur very precisely with uncertainty of only \pm 0.003 pH units and supplied with full traceability and uncertainty documentation.





Certipur® buffer solutions & substances - certified reference materials according to ISO Guide 34, the gold standard for a reliable pH calibration.

Accreditation

Secondary Buffers

Ready-to-use Buffers

Buffers in Sachets

Buffers in Titripac[®]

Buffers according to USP & Ph. Eur.

Ready-to-use Buffers

Precise and convenient ready-to-use buffers solutions for the daily routine calibration of pH instruments.

- Excellent quality ISO Guide 34 accreditation
- Safe and convenient packaging concepts Titripac® packaging, single-use sachets, & bottles
- Five point calibration against both NIST and PTB certified reference materials
- Accompanied by audit conformance certificates





Certipur® buffer solutions & substances - certified reference materials according to ISO Guide 34, the gold standard for a reliable pH calibration.

Accreditation

Secondary Buffers

Ready-to-use Buffers

Buffers in Sachets

Buffers in Titripac®

Buffers according to USP & Ph. Eur.

Buffers in Sachets

Ready-to-use Certipur® certified buffers solutions packed in convenient single-use sachets for reliable calibration.

- Individually packed in hermetically sealed sachets
- Always fresh, accurate and ready to use
- No risk of contamination
- Broad range of buffers available











Certipur® buffer solutions & substances - certified reference materials according to ISO Guide 34, the gold standard for a reliable pH calibration.

Accreditation

Secondary Buffers

Ready-to-use Buffers

Buffers in Sachets

Buffers in Titripac[®]

Buffers according to USP & Ph. Eur.

Buffers in Titripac® packaging

Certipur® buffers solutions are also offered in our innovative and convenient Titripac® packaging – economic and ecological solutions for easy and accurate pH calibration.

- No contamination of the solutions after opening the Titripac® packaging
- Convenient just open and close the tap
- Less waste use only the exact quantity needed
- Broad range of buffers in Titripac[®] packaging





Certipur® buffer solutions & substances - certified reference materials according to ISO Guide 34, the gold standard for a reliable pH calibration.

Accreditation

Secondary Buffers

Ready-to-use Buffers

Buffers in Sachets

Buffers in Titripac[®]

Buffers according to USP & Ph. Eur.

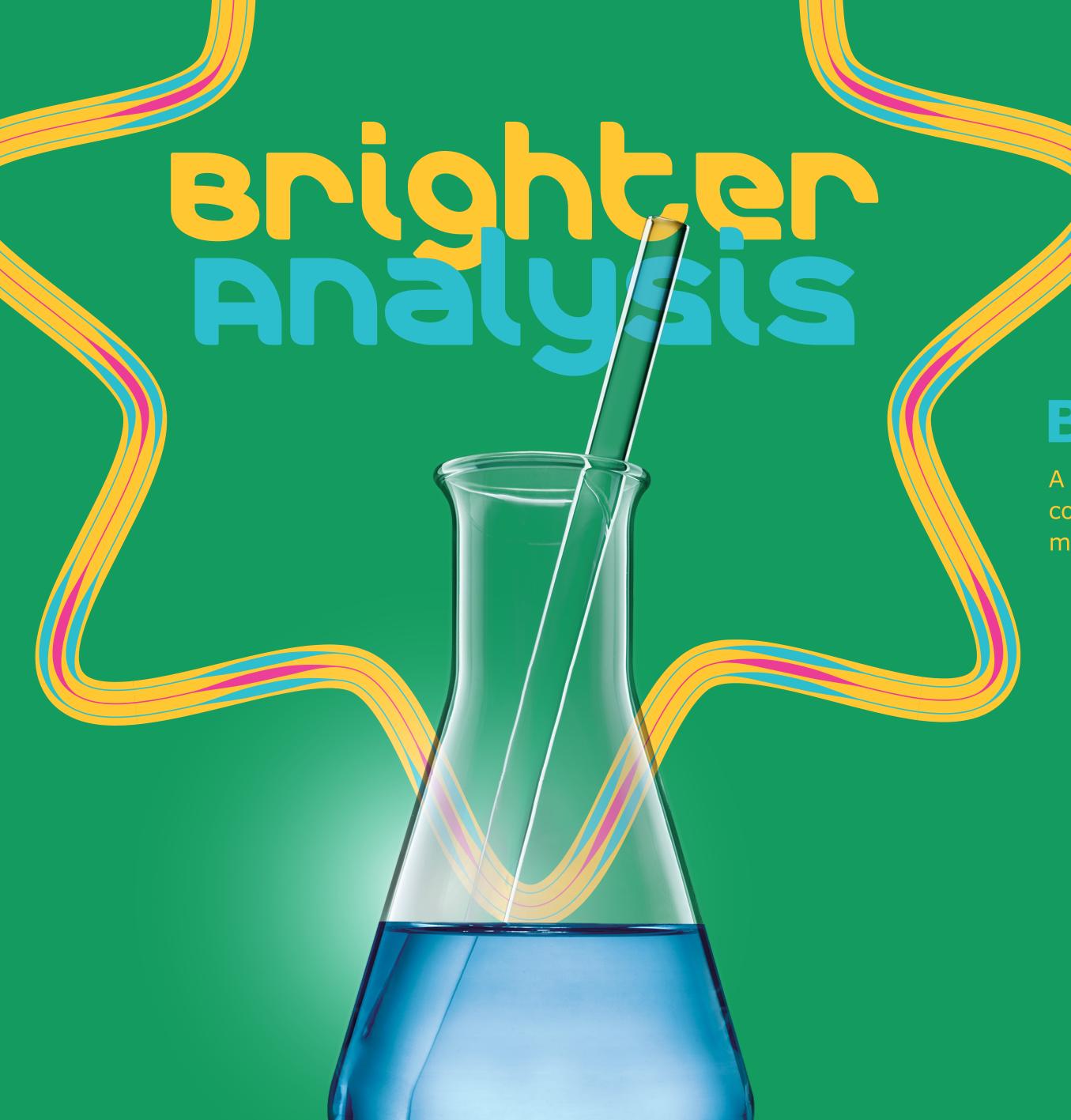




Buffers according to USP & Ph. Eur.

Certipur® buffer solutions are produced and tested according to EP and USP guidelines for the most precise calibration, qualification and monitoring applications.

- Accompanied by a Certificate of Analysis with all the details needed for internal documentation and audits
- Available in a variety of format sachets, bottles and as secondary reference buffers solutions & substances
- Accreditation according to ISO Guide 34
- Traceable to NIST



Brighter Expertise

A global network of R&D, Manufacturing, and Quality Assurance combined with centuries of experience gives you the most up-to-date method development and documentation support for solvents & inorganics.

Brighter Solutions

Our close cooperation with our customers allows us to develop and support innovative solutions, not just products.

Brighter Convenience

Easy ordering on Sigma-Aldrich.com and our worldwide distribution organization mean you can find the right solution and have it delivered the way you want it.



sigma-aldrich.com/brighter

To place an order or receive technical assistance:

www.sigma-aldrich.com/customersupport www.sigma-aldrich.com/techservice

