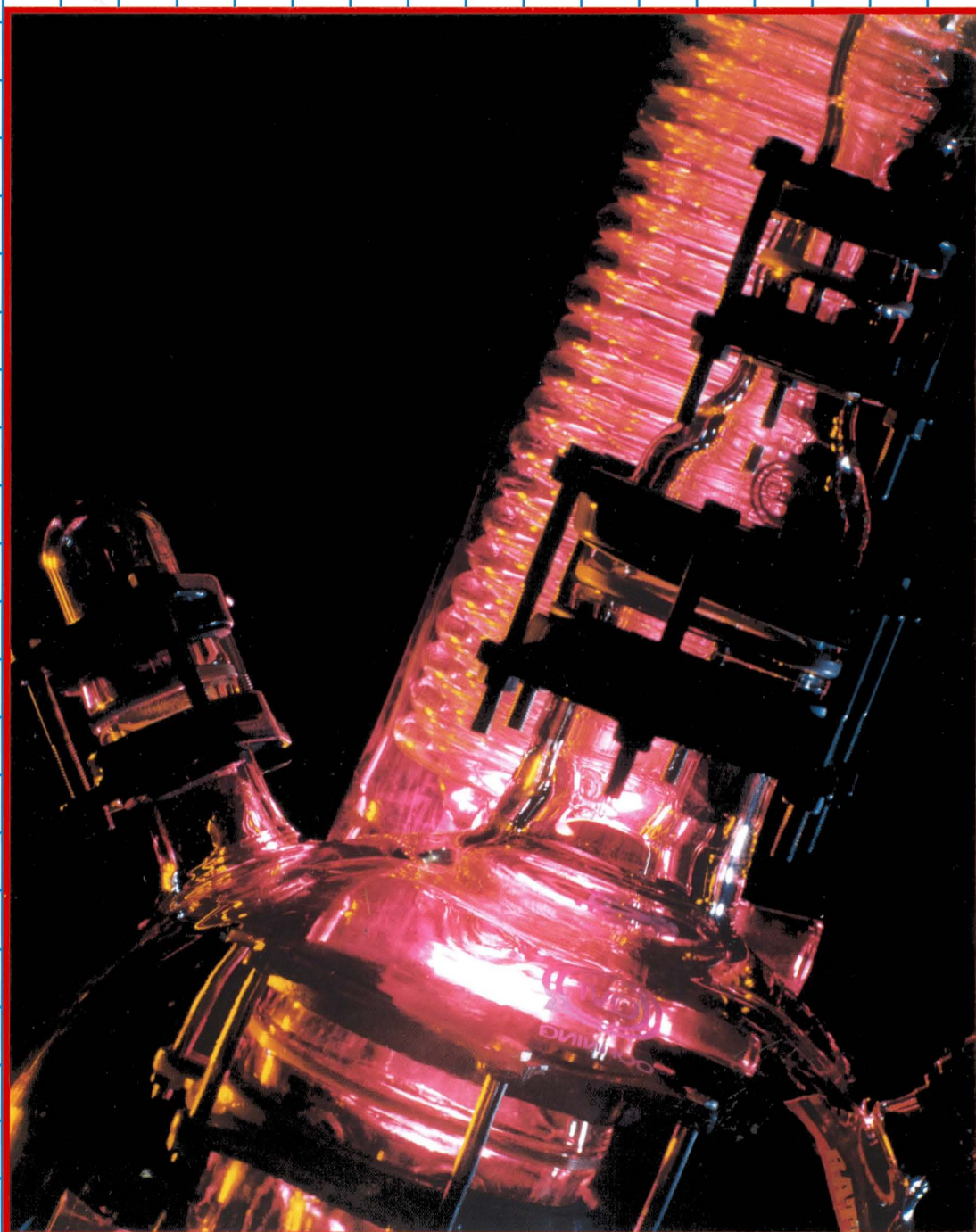



HIGH PURITY SOLVENTS & REAGENTS

RATHBURN




MIKROLAB
FRISENETTE

- HIGH PERFORMANCE LIQUID CHROMATOGRAPHY SOLVENTS ●
- GLASS DISTILLED GRADE SOLVENTS ●
- MATERIALS FOR BIOCHEMISTRY ●

RATHBURN CHEMICALS Ltd.

LIST OF PRODUCTS

HPLC GRADE SOLVENTS

RA RH1012-XXX	1,2-Dichloroethane (>99.9%)
RA RH1036-XXX	1-Butanol (>99.9%)
RA RH1043-XXX	1-Octanol (>99.8%)
RA RH1032-XXX	1-Propanol (>99.9%)
RA RH1018-XXX	2-Propanol (>99.9%)
RA RH1021-XXX	Acetone (>99.9%)
RA RH1016-XXX	Acetonitrile, Grade S (>99.95%)
RA RH1015-XXX	Acetonitrile (>99.9%)
RA RH1027-XXX	Carbon Disulphide (>99.97%)
RA RH1009-XXX	Chloroform (>99.9%)
RA RH1006-XXX	Cyclohexane (>99.9%)
RA RH1025-XXX	Cyclopentane-75% (>75%)
RA RH1025-99-XXX	Cyclopentane-99% (>99%)
RA RH1038-XXX	Dichloromethane, Alcohol Free (>99.9%)
RA RH1039-XXX	Dichloromethane, Amylene Free (>99.9%)
RA RH1010-SF-XXX	Dichloromethane, Stabiliser Free (>99.9%)
RA RH1010-XXX	Dichloromethane (>99.9%)
RA RH1057-XXX	Diethyl Ether (>99.9%)
RA RH1014-XXX	1,4 Dioxane (>99.9%)
RA RH1022-XXX	Ethanol (>99.9%)
RA RH1013-XXX	Ethyl Acetate (>99.9%)
RA RH1004-XXX	Heptane (>99%)
RA RH1003-XXX	Hexane 95% (>95%)
RA RH1033-XXX	Hexane 97% (>97%)
RA RH1034-XXX	Hexane 99% (>99%)
RA RH1002-XXX	Hexane (isomeric mixture) (>99 C6 isomers%)
RA RH1050-XXX	Iso-Butanol (2-Methyl-1-Propanol) (>99.5%)
RA RH1037-XXX	Iso-Hexane (>95%)
RA RH1005-XXX	Iso-Octane (2,2,4-Trimethylpentane) (>99%)
RA RH1019-XXX	Methanol (>99.95%)
RA RH1008-XXX	Methyl tert-Butyl Ether (MTBE) (>99.95%)
RA RH1035-XXX	Nonane (>99.8%)
RA RH1001-XXX	Pentane (>95%)
RA RH1001-99-XXX	Pentane-99% (>99%)
RA RH1045-XXX	Pyridine (>99.9%)
RA RH1048-XXX	tert-Butanol (2-Methyl-2-Propanol) (>99.9%)
RA RH1011-XXX	Tetrahydrofuran (>99.95%)
RA RH1042-XXX	Toluene (>99.9%)
RA RH1020-XXX	Water

GLASS DISTILLED GRADE

RA RG2058-XXX	1,2,4-Trichlorobenzene (>99%)
RA RG2066-XXX	1,2-Dichlorobenzene (>99.5%)
RA RG2091-XXX	Chlorobenzene (>99.9%)
RA RG2011-XXX	1,2-Dichloroethane (>99.8%)
RA RG2042-XXX	1,2-Dimethoxyethane (>99.9%)
RA RG2005-XXX	1-Butanol (>99.5%)
RA RG2054-XXX	1-Methyl-2-Pyrrolidone (>99.5%)
RA RG2065-XXX	1-Octanol (>99.5%)
RA RG2032-XXX	1-Propanol (>99.8%)
RA RG2044-XXX	2-Butanol (>99%)
RA RG2006-XXX	2-Butanone (Methyl Ethyl Ketone) (>99.8%)
RA RG2019-XXX	2-Methoxyethanol (>99.5%)
RA RG2050-XXX	2-Methylbutane (iso-Pentane) (>99.5%)
RA RG2038-XXX	2-Propanol (>99.8%)
RA RG2053-XXX	4-Methyl-2-Pentanone (MIBK) (>99.8%)
RA RG3001-XXX	Acetic Acid (>99.9%)

GLASS DISTILLED GRADE - CONTINUED

RA RG2001-XXX	Acetone (>99.7%)
RA RG2002-XXX	Acetonitrile (>99.8%)
RA RG2004-XXX	Benzene (>99.9%)
RA RG2007-XXX	Butyl Acetate (>99.7%)
RA RG2027-XXX	Carbon Disulphide, low benzene, <1000 ppb (>99.97%)
RA RG2009-XXX	Chloroform (>99.8%)
RA RG2010-XXX	Cyclohexane (>99.8%)
RA RG2070-XXX	Cyclopentane-75% (>75%)
RA RG2092-XXX	Cyclopentane-99% (>99%)
RA RG2060-XXX	Decane (>99%)
RA RG2021-XXX	Dichloromethane, Alcohol free (>99.8%)
RA RG2039-XXX	Dichloromethane, Amylene Free (>99.8%)
RA RG2012-SF-XXX	Dichloromethane, Stabiliser Free (>99.8%)
RA RG2012-XXX	Dichloromethane (>99.8%)
RA RG2013-XXX	Diethyl Ether (>99.7%)
RA RG2041-XXX	Diisopropyl Ether (>98.5%)
RA RG2043-XXX	N,N-Dimethylacetamide (>99.9%)
RA RG2014-XXX	N,N-Dimethylformamide (DMF) (>99.8%)
RA RG2029-XXX	Dimethyl Sulphoxide (DMSO) (>99.8%)
RA RG2037-XXX	1,4 Dioxane (>99.9%)
RA RG2015-XXX	Ethyl Acetate (>99.8%)
RA RG2089-XXX	Ethyl Benzene (>99.8%)
RA RG2047-XXX	Ethylene Glycol (>99%)
RA RG2016-XXX	Heptane (>99%)
RA RG2017-XXX	Hexane (isomeric mixture) (>99 C6 isomers%)
RA RG2051-XXX	Iso-Butanol (2-Methyl-1-propanol) (>99.5%)
RA RG2137-XXX	Iso-Hexane
RA RG2026-XXX	Iso-Octane (2,2,4-Trimethylpentane) (>99%)
RA RG2018-XXX	Methanol (>99.8%)
RA RG2049-XXX	Methyl Acetate (>99.8%)
RA RG2020-XXX	Methyl tert-Butyl Ether (MTBE) (>99.8%)
RA RG2045-XXX	Nonane (>99.5%)
RA RG2030-XXX	Octane (>98%)
RA RG2086-XXX	o-Xylene (>98%)
RA RG2022-95-XXX	Pentane, Low in Haloforms (>95%)
RA RG2023-XXX	Pyridine (>99.8%)
RA RG2094-XXX	tert-Butanol (2-Methyl-2-propanol) (>99.5%)
RA RG2068-XXX	Tetrachloroethylene (>99.9%)
RA RG2024-XXX	Tetrahydrofuran (>99.8%)
RA RG2025-XXX	Toluene (>99.8%)
RA RG2040-XXX	Xylene (Mix < 4% Ethyl Benzene) (>96 xylenes%)
RA RG2063-XXX	30-40°C Petroleum Spirit (>95%)
RA RG2073-XXX	30-60°C Petroleum Spirit (>95%)
RA RG2031-XXX	40-60°C Petroleum Spirit (>95%)
RA RG2064-XXX	60-80°C Petroleum Spirit (>95%)
RA RG2072-XXX	80-100°C Petroleum Spirit (>95%)
RA RG2062-XXX	100-120°C Petroleum Spirit (>95%)
RA RG2071-XXX	120-140°C Petroleum Spirit (>95%)
RA RG2061-XXX	Industrial Denatured Alcohol (>99%)

NOTES:

- Purities are minimum specified purities. Purity is often significantly higher.
- Purity before relevant stabiliser
- Additional purity information available on the Rathburn Home page www.rathburn.co.uk and on www.mikrolab.dk

CHOICE OF VOLUME ...REPLACE XXX WITH DESIRED VOLUME.

STANDARD VOLUMES: 010 = 1 LITER ▪ 025 = 2.5 L

OTHER AVAILABLE VOLUMES: 001 = 100 ML ▪ 005 = 500 ML ▪

040 = 4 L ▪ 100 = 10 L ▪ 400 = 40 L (ASK FOR MORE INFORMATION)

RATHBURN CHEMICALS Ltd.

LIST OF PRODUCTS

LC-MS GRADE SOLVENTS

RA RH1012MS-XXX	1,2-Dichloroethane (>99.95%)
RA RH1036MS-XXX	1-Butanol (>99.95%)
RA RH1043MS-XXX	1-Octanol (>99.9%)
RA RH1032MS-XXX	1-Propanol (>99.95%)
RA RH1018MS-XXX	2-Propanol (>99.95%)
RA RH1021MS-XXX	Acetone (>99.95%)
RA RH1016MS-XXX	Acetonitrile Grade S (>99.97%)
RA RH1027MS-XXX	Carbon Disulphide (>99.98%)
RA RH1009MS-XXX	Chloroform (>99.95%)
RA RH1006MS-XXX	Cyclohexane (>99.95%)
RA RH1025MS-XXX	Cyclopentane-75% (>75%)
RA RH1025-99MS-XXX	Cyclopentane-99% (>99%)
RA RH1038MS-XXX	Dichloromethane, Alcohol Free (>99.95%)
RA RH1039MS-XXX	Dichloromethane, Amylene Free (>99.95%)
RA RH1010MS-XXX	Dichloromethane (>99.95%)
RA RH1014MS-XXX	1,4 Dioxane (>99.9%)
RA RH1022MS-XXX	Ethanol (>99.95%)
RA RH1013MS-XXX	Ethyl Acetate (>99.95%)

MATERIALS FOR BIOCHEMISTRY

RA RP3001-010	Acetic Acid, 1 liter (>99.95%)
RA RP3008-010	Formic Acid, 1 liter (>99%)
RA PS6040-001	Piperidine, 100 ml

MATERIALS FOR OLIGONUCLEOTIDE SYNTHESIS

RA DS5055-010	1,2-Dichloroethane, 1 liter (>99.9%)
RA DS5050-010	Acetonitrile, 1 liter (>99.95%)

LC-MS GRADE SOLVENTS - CONTINUED

RA RP3008MS-XXX	Formic Acid (>99.9%)
RA RH1004MS-XXX	Heptane (>99.3%)
RA RH1003MS-XXX	Hexane-95% (>96%)
RA RH1033MS-XXX	Hexane-97% (>98%)
RA RH1034MS-XXX	Hexane-99% (>99.3%)
RA RH1002MS-XXX	Hexane (isomeric mixture) (>99 C6 isomers%)
RA RH1050MS-XXX	Iso-Butanol (2-Methyl-1-Propanol) (>99.7%)
RA RH1037MS-XXX	Iso-Hexane (>95%)
RA RH1005MS-XXX	Iso-Octane (2,2,4-Trimethylpentane) (>99%)
RA RH1019MS-XXX	Methanol (>99.97%)
RA RH1008MS-XXX	Methyl tert-Butyl Ether (>99.97%)
RA RH1035MS-XXX	Nonane (>99.8%)
RA RH1001MS-XXX	Pentane (>95%)
RA RH1045MS-XXX	Pyridine (>99.95%)
RA RH1048MS-XXX	tert-Butanol (2-Methyl-2-Propanol) (>99.9%)
RA RH1011MS-XXX	Tetrahydrofuran (>99.97%)
RA RH1042MS-XXX	Toluene (>99.95%)
RA RH1020MS-XXX	Water

MATERIALS FOR PEPTIDE SYNTHESIS

RA PS6035-010	1-Methyl-2-Pyrrolidone, 1 liter (>99.9%)
RA PS6020-025	N,N-Dimethylformamide (DMF), 2,5 liter (>99.9%)
RA PS6040-001	Piperidine, 100 ml

ABOUT RATHBURN CHEMICALS

Rathburn Chemicals is a leading supplier of high purity solvents which can be used in a variety of exacting applications and demanding environments, including the life, food and environmental sciences, manufacturing and pharmaceutical industries. In over four decades the company has built an extensive customer base across these sectors developed through recommendation and repeat sales.

Rathburn core products include those used in the fields of residue analysis & extraction (Glass Distilled Grade), HPLC, LC-MS, DNA & peptide synthesis analysis. These are supplemented by a vast range of grades and specifications prepared on behalf of an assortment of users within the industry.

All our products are physically/chemically processed through distillation in order to reach the highest standards and each product batch undergoes a series of analytical tests across a number of quality parameters to ensure quality is not only met but maximised. Every batch is fully and easily traceable from the point of receipt.

We have held ISO9001-2008 Certification for Quality Assurance since 2012 and strive to operate a quality management system that is fully customer centred.

MEMBERSHIPS & ACCREDITATIONS

ISO9001-2008 Certification for Quality Assurance

Member of the Federation of Small Businesses

ADR and CDG10 compliance

DGSA regulated

Environmental Limit Condition rating: Excellent (no breaches and high performance)

RATHBURN CHEMICALS Ltd.

QUALITY

- **Quality:** Every product is processed in our Walkerburn factory to ensure we have full control over the final result, and we have attained ISO9001 accreditation for our excellent quality management. Our Certificates of Analysis provide data based on the poorest test results obtained, not an average from the batch, so customers can be confident of the product's composition.
- **Purity:** Many of our products are what the industry refers to as ultra pure, with impurity levels often measuring at only a few parts per million. We endeavour to reduce or eliminate any impurities that are likely to conflict in the application of the end user, so we encourage dialogue with our customers to determine how we can maximise the most prescriptive solutions for their individual analytical needs.
- **Testing:** Each distillation goes through comprehensive testing in order to optimise quality across a number of analytical parameters.
- **Traceability:** Our procedures enable us to have full traceability from original manufacture to end product fulfilment.

OUR SERVICES

At Rathburn Chemicals we offer a bespoke service, prescriptive to individual customers' requirements at every stage of the manufacturing process. We have developed and tailored our manufacturing processes in response to an evolving market which requires solvents being used in bespoke applications.

The combination of our experience and knowledge with a high performance capability from our manufacturing equipment enables us to refine and adapt our product specifications and quality output.

- **Preparations:** We supply blended mixtures of materials in a wide range of quantities by request. We also prepare and supply solutions for mobile phase for use in HPLC using a variety of methods and recipes.
- **Packaging:** We offer glass bottles from 500mL to 2.5L as standard, along with larger volumes, from 4L up to 1000L IBCs on request. Also smaller volumes as 100mL can be purchased. All our packaging is UN certified.
- **Labelling:** All products are labelled according to EC-regulations 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830. Safety data sheets are available for all products on request also in Danish.
- **Quantity:** From a single 2.5L bottle to a full pallet or more, we impose no minimum order requirements.
- **Delivery:** We are pleased to work with a number of European distribution partners to ensure the best service and availability for our export customers. Mikrolab Aarhus A/S is our distributor in Denmark. Mikrolab provide standard delivery within DK from day to day of products in stock.

RATHBURN

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DISTRIBUTOR:

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