

SOLVENTS



ROTIPURAN® for analysis

Solvent in p.a. quality for analytical purposes, with an extensive warranty analysis. Most solvents additionally meet the requirements of ISO or ACS.

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Extra pure

High purity solvents in pharmacopoeia quality.

p. 5

For synthesis

Pure quality, suitable for synthesis or laboratory.

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ROTIDRY®

Dried solvents, very low water content.

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ROTISOLV®-Ultra LC-MS, LC-MS and HPLC

Solvents in various quality levels for HPLC, LC-MS and LC-MS Ultra.

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ROTISOLV®-Headspace Grade

For analysis of solvent residues in drugs and food additives.

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ROTISOLV®-GC Ultra Grade

For gas chromatographic analysis of residues at trace levels (pesticides, dioxins, furans, PAHs, PCBs, etc.).

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ROTISOLV®-Pestilyse®

For residue analysis (environmental, water and food testing).

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ROTISOLV®-UV/IR Grade

For spectroscopy and chromatography.

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Deuterated

For NMR spectroscopy for structure determination and identity verification.

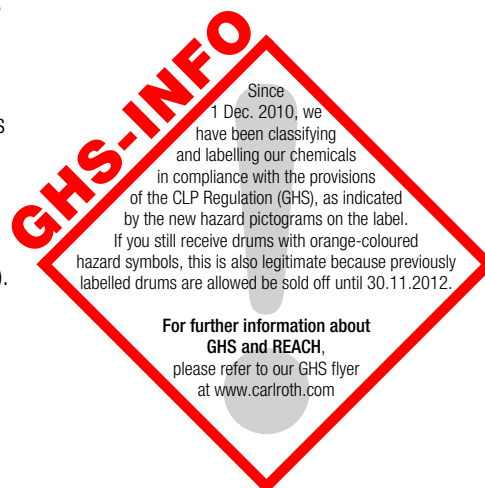
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Ionic Liquids

For a variety of uses in research and development.

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ROTIPURAN® Solvents for Analysis



Highest purity and extensive trace analysis
for excellent results!

We offer:
ROTIPURAN® p.a. solvents on the quality and
batch consistency of a high analytical reliability.

This quality is controlled, guaranteed, and safeguarded through careful
preparation, testing and packaging.

In addition, many of these solvents meet the requirements of ACS
(American Chemical Society) and ISO (International Organization for
Standardization), and thus are fully specified.

Applications:
ROTIPURAN® p.a. solvents are suitable
for all standard applications in biological
and chemical laboratory or pilot plant,
such as: extractions, qualitative and
quantitative analysis.
As a matter of course, the p.a. solvents
offered here may well be used for other
applications instead.



Packaging:
Glass bottles: 1 l and 2.5 l
and partly
Plastic bottles: 1 l, 2.5 l, and 5 l
and 10 & 25 l ROTITAINER®
Other packages are available upon request.



ROTIPURAN® Solvents for Analysis

Acetone



ROTIPURAN® ≥99.8 %, p.a., ACS, ISO

  **Danger** H225-H319-H336-EUH066

9372.1	1 l	glass	21,50 €
9372.4	1 l	plastic	17,80 €
9372.2	2.5 l	glass	44,90 €
9372.5	2.5 l	plastic	37,95 €
9372.6	5 l	plastic	66,15 €
9372.3	25 l	tinplate	196,70 €

Acetonitrile

ROTIPURAN® ≥99.5 %, p.a., ACS

  **Danger**

H225-H302-H312-H332-H319

4722.1	1 l	glass	32,05 €
4722.2	2.5 l	glass	70,75 €

Benzene

ROTIPURAN® ≥99.5 %, p.a., ACS, ISO


   **Danger**

H225-H340-H350-H372-H304-H315-H319

7173.4	100 ml	glass	18,05 €
7173.3	500 ml	glass	20,75 €
7173.1	1 l	glass	32,20 €
7173.2	2.5 l	glass	69,00 €

Benzyl alcohol

ROTIPURAN® ≥99 %, p.a., ACS

 **Warning** H302-H332

0336.1	500 ml	glass	20,80 €
0336.2	1 l	glass	35,50 €
0336.3	2.5 l	glass	73,35 €

1-Butanol

ROTIPURAN® ≥99.5 %, p.a., ACS, ISO



   **Danger** H318-H226-H302-

H335-H336-H315

7171.2	1 l	glass	37,40 €
7171.1	2.5 l	glass	74,95 €

tert-Butanol



ROTIPURAN® ≥99.5 %, p.a., ACS

  **Danger** H225-H332-H319-H335

AE16.1	500 ml	glass	15,05 €
AE16.2	1 l	glass	24,95 €
AE16.3	2.5 l	glass	44,60 €

2-Butanone

ROTIPURAN® ≥99.5 %, p.a., ACS

  **Danger** H225-H319-H336-EUH066

T920.1	1 l	glass	29,25 €
T920.2	2.5 l	glass	62,10 €

Cyclohexane

ROTIPURAN® ≥99.5 %, p.a., ACS, ISO

   **Danger**

H225-H304-H400-H410-H315-H336

6886.1	1 l	glass	37,95 €
6886.2	2.5 l	glass	71,55 €

1,2-Dichloroethane

ROTIPURAN® ≥99.5 %, p.a.


   **Danger**

H225-H350-H302-H315-H319-H335

6837.4	500 ml	glass	16,35 €
6837.1	1 l	glass	26,45 €
6837.2	2.5 l	glass	46,15 €
6837.3	10 l	tinplate	152,60 €

Dichloromethane




ROTIPURAN® ≥99.5 %, p.a., ACS, ISO

 **Warning** H351

6053.3	100 ml	glass	12,70 €
6053.1	1 l	glass	27,90 €
6053.2	2.5 l	glass	50,20 €
6053.5	25 l	tinplate	245,10 €

Diethanolamine

ROTIPURAN® ≥99 %, p.a., ACS

   **Danger** H318-H373-H302-H315

0332.1	250 ml	glass	25,05 €
0332.2	500 ml	glass	41,95 €
0332.3	1 l	glass	70,85 €

Diethylamine

ROTIPURAN® ≥99.5 %, p.a., ACS

   **Danger**

H225-H314-H302-H312-H332

3495.1	250 ml	glass	14,25 €
3495.2	1 l	glass	35,35 €

Diethyl ether

ROTIPURAN® ≥99.5 %, p.a.



  **Danger**

H224-H302-H336-EUH019-EUH066

3942.1	1 l	glass	35,50 €
3942.2	2 l	glass	61,60 €
3942.4	5 l	aluminium	124,30 €
3942.5	25 l	tinplate	369,55 €

Diisopropyl ether

ROTIPURAN® ≥99 %, p.a., ACS

  **Danger**

H225-H336-EUH066-EUH019

T919.1	1 l	glass	29,00 €
T919.2	2.5 l	glass	56,50 €
T919.3	10 l	tinplate	188,15 €

N,N-Dimethylformamide

ROTIPURAN® ≥99.8 %, p.a., ACS, ISO

   **Danger**

H226-H360D-H312-H332-H319

T921.1	1 l	glass	28,70 €
T921.2	2.5 l	glass	51,65 €


Dimethyl sulphoxide

ROTIPURAN® ≥99.8 %, p.a.

4720.4	100 ml	glass	12,70 €
4720.2	500 ml	glass	22,95 €
4720.1	1 l	glass	38,40 €
4720.3	2.5 l	glass	79,55 €

1,4-Dioxane

ROTIPURAN® ≥99.5 %, p.a., ACS, ISO




   **Danger**

H225-H351-H319-H335-EUH019-EUH066

4626.4	100 ml	glass	9,45 €
4626.3	500 ml	glass	22,90 €
4626.1	1 l	glass	42,70 €
4626.2	2.5 l	glass	88,15 €
4626.6	25 l	tinplate	745,00 €

Acetic acid anhydride



ROTIPURAN® ≥99 %, p.a., ACS, ISO

   **Danger** H314-H226-H302-H332

CP28.1	1 l	glass	31,95 €
CP28.2	2.5 l	glass	59,85 €

Acetic acid n-butyl ester



ROTIPURAN® ≥99.5 %, p.a., ACS

  **Warning** H226-H336-EUH066

P036.1	1 l	glass	31,70 €
P036.2	2.5 l	glass	71,85 €

Acetic acid ethyl ester



ROTIPURAN® ≥99.5 %, p.a., ACS, ISO

  **Danger** H225-H319-H336-EUH066

6784.1	1 l	glass	25,65 €
6784.3	1 l	plastic	24,75 €
6784.2	2.5 l	glass	46,55 €
6784.4	2.5 l	plastic	44,60 €
6784.5	5 l	plastic	74,20 €

Ethanolamine

ROTIPURAN® ≥99 %, p.a., ACS

  **Danger** H314-H302-H312-H332

0342.1	500 ml	glass	17,80 €
0342.2	1 l	glass	26,25 €

Ethylenediamine

ROTIPURAN® ≥99.5 %, p.a., anhydrous

    **Danger**

H334-H314-H226-H302-H312-H317

3049.1	250 ml	glass	40,85 €
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ROTIPURAN® Solvents for Analysis

Ethylene glycol

ROTIPURAN® ≥99.5 %, p.a.

⚠ Warning H302

6881.1	1 l	plastic	33,65 €
6881.2	2.5 l	plastic	67,90 €
6881.3	10 l	plastic	198,90 €

Formamide

≥99.5 %, p.a.

⚠ Danger H360D

6749.3	500 ml	glass	18,55 €
6749.1	1 l	glass	32,30 €
6749.2	2.5 l	glass	57,20 €

n-Heptane

ROTIPURAN® ≥99 %, p.a.

⚠ ⚠ ⚠ ⚠ Danger

H225-H304-H400-H410-H315-H336

T174.1	1 l	glass	53,40 €
T174.2	2.5 l	glass	112,00 €

n-Hexane

ROTIPURAN® ≥99 %, p.a., ACS

⚠ ⚠ ⚠ ⚠ ⚠ Danger H225-H304-H361f-

H373-H315-H336-H411

4723.1	1 l	glass	55,80 €
4723.2	2.5 l	glass	124,45 €
4723.4	25 l	tinplate	1076,75 €

Isoamyl alcohol

ROTIPURAN® ≥98.5 %, p.a., ACS

⚠ ⚠ Warning H226-H332-H335-EUH066

T870.1	500 ml	glass	31,70 €
T870.2	1 l	glass	59,50 €
T870.3	2.5 l	glass	134,40 €

Isobutyl methylketone

ROTIPURAN® ≥99 %, p.a., ACS

⚠ ⚠ Danger

H225-H332-H319-H335-EUH066

0338.1	1 l	glass	26,90 €
0338.2	2.5 l	glass	51,00 €

Isooctane

ROTIPURAN® ≥99.5 %, p.a., ACS

⚠ ⚠ ⚠ ⚠ ⚠ Danger

H225-H304-H400-H410-H315-H336

6889.1	1 l	glass	41,60 €
6889.2	2.5 l	glass	88,90 €

Methanol

ROTIPURAN® ≥99.9 %, p.a., ACS, ISO

⚠ ⚠ ⚠ ⚠ ⚠ Danger

H225-H301-H311-H331-H370

4627.1	1 l	glass	20,25 €
4627.4	1 l	plastic	18,65 €
4627.2	2.5 l	glass	34,70 €
4627.5	2.5 l	plastic	32,55 €
4627.6	5 l	plastic	59,70 €
4627.3	25 l	tinplate	121,00 €

2-Methoxyethanol

ROTIPURAN® ≥99.5 %, p.a., ACS

⚠ ⚠ ⚠ ⚠ ⚠ Danger

H360FD-H226-H302-H312-H332

CP08.1	500 ml	glass	24,55 €
CP08.2	1 l	glass	42,55 €
CP08.3	2.5 l	glass	92,65 €

2-Methylbutane

ROTIPURAN® ≥99.5 %, p.a.

⚠ ⚠ ⚠ ⚠ ⚠ Danger

H224-H304-H336-H411-EUH066

3926.1	250 ml	glass	51,10 €
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2-Methyl-1-propanol

ROTIPURAN® ≥99 %, p.a., ACS

⚠ ⚠ ⚠ ⚠ ⚠ Danger

H318-H226-H335-H336-H315

6772.1	1 l	glass	36,30 €
6772.2	2.5 l	glass	71,15 €

n-Pentane

ROTIPURAN® ≥99 %, p.a.

⚠ ⚠ ⚠ ⚠ ⚠ Danger

H225-H304-H336-H411-EUH066

4978.1	1 l	glass	38,75 €
4978.2	2.5 l	glass	81,50 €

Petroleum ether 40-60 °C

ROTIPURAN® p.a., ACS, ISO

⚠ ⚠ ⚠ ⚠ ⚠ Danger

H225-H304-H315-H336-H411

T173.1	1 l	glass	26,05 €
T173.2	2.5 l	glass	48,00 €
T173.3	5 l	aluminium	82,70 €
T173.5	25 l	tinplate	249,40 €

1-Propanol

ROTIPURAN® ≥99.5 %, p.a., ACS

⚠ ⚠ ⚠ ⚠ ⚠ Danger H225-H318-H336

6776.1	1 l	glass	40,15 €
6776.2	2.5 l	glass	79,75 €

2-Propanol

ROTIPURAN® ≥99.8 %, p.a., ACS, ISO

⚠ ⚠ ⚠ ⚠ ⚠ Danger H225-H319-H336

6752.1	1 l	glass	19,60 €
6752.3	1 l	plastic	20,25 €
6752.2	2.5 l	glass	42,90 €
6752.4	2.5 l	plastic	42,55 €
6752.5	5 l	plastic	63,20 €
6752.6	25 l	tinplate	186,50 €

Pyridine

ROTIPURAN® ≥99.5 %, p.a., ACS

⚠ ⚠ ⚠ ⚠ ⚠ Danger H225-H302-H312-H332

9729.3	500 ml	glass	46,90 €
9729.1	1 l	glass	92,95 €
9729.2	2.5 l	glass	203,90 €

Tetrahydrofuran

ROTIPURAN® ≥99.5 %, p.a., ACS

⚠ ⚠ ⚠ ⚠ ⚠ Danger H225-H319-H335-EUH019

6788.1	1 l	glass	37,55 €
6788.2	2.5 l	glass	76,90 €
6788.3	10 l	tinplate	316,05 €

Toluene

ROTIPURAN® ≥99.5 %, p.a., ACS, ISO

⚠ ⚠ ⚠ ⚠ ⚠ Danger

H225-H304-H361d-H373-H315-H336

7115.1	1 l	glass	29,30 €
7115.2	2.5 l	glass	57,85 €

Trichloromethane/Chloroform

ROTIPURAN® ≥99 %, p.a.

⚠ ⚠ ⚠ ⚠ ⚠ Warning H351-H373-H302-H315

3313.4	100 ml	glass	13,20 €
3313.1	1 l	glass	33,25 €
3313.2	2.5 l	glass	67,75 €
3313.5	25 l	tinplate	360,10 €

Water

ROTIPURAN® p.a., ACS

T172.1	1 l	plastic	8,50 €
T172.2	2.5 l	plastic	16,70 €
T172.3	5 l	plastic	23,50 €
T172.5	30 l	plastic	87,55 €

Xylene (isomers)

ROTIPURAN® ≥99 %, p.a., ACS, ISO

⚠ ⚠ ⚠ ⚠ ⚠ Warning H226-H312-H332-H315

4436.1	1 l	glass	29,85 €
4436.2	2.5 l	glass	63,55 €

Solvents Extra Pure

Solvent in extra pure quality are specified according to a pharmacopoeia and meet the requirements according to the respective monograph.

This extra pure solvent range meets the requirements of an analytical laboratory and of production.

Packaging:

Glass bottles: 1 l, 2.5 l and 10 l and partly

Plastic bottles: 1 l, 2.5 l, and 5 l and 10 & 25 l ROTITAINER®



Acetone

≥99.7 %, Ph.Eur., extra pure

2-Propanone, Dimethyl ketone

Danger H225-H319-H336-EUH066

CP40.1	1 l	glass	16,40 €
CP40.2	2.5 l	glass	36,90 €
CP40.3	2.5 l	plastic	32,70 €
CP40.4	5 l	plastic	45,10 €
CP40.5	10 l	tinplate	80,60 €
CP40.6	25 l	tinplate	168,20 €

Dichloromethane

≥99.5 %, Ph.Eur., extra pure

Methylene chloride, DCM

Warning H351

CP45.1	1 l	glass	21,15 €
CP45.2	2.5 l	glass	40,75 €
CP45.3	10 l	tinplate	104,75 €
CP45.4	25 l	tinplate	198,90 €

Diethyl ether

≥99.5 %, Ph.Eur.

Danger

H224-H302-H336-EUH019-EUH066

8810.1	1 l	glass	28,15 €
8810.2	5 l	aluminium	104,30 €
8810.4	25 l	tinplate	307,95 €

Acetic acid ethyl ester

≥99.5 %, Ph.Eur., extra pure

Ethyl acetate

Danger H225-H319-H336-EUH066

CP42.1	1 l	glass	20,20 €
CP42.2	2.5 l	glass	35,05 €
CP42.3	2.5 l	plastic	32,05 €
CP42.4	5 l	plastic	52,90 €
CP42.5	10 l	tinplate	79,45 €
CP42.6	25 l	tinplate	156,70 €

Methanol

≥99.5 %, Ph.Eur., extra pure

Methyl alcohol, Carbinol

Danger

H225-H301-H311-H331-H370

CP43.1	1 l	glass	16,35 €
CP43.2	2.5 l	glass	27,20 €
CP43.3	2.5 l	plastic	23,40 €
CP43.4	5 l	plastic	38,10 €
CP43.5	10 l	tinplate	58,45 €
CP43.6	25 l	tinplate	105,00 €

Petroleum ether 40-60 °C

DAB, extra pure

Petroleum benzine

Danger

H225-H304-H315-H336-H411

CP44.1	1 l	glass	22,50 €
CP44.2	2.5 l	glass	41,75 €
CP44.3	5 l	aluminium	77,75 €
CP44.4	10 l	tinplate	128,50 €

2-Propanol

≥99.5 %, Ph.Eur., extra pure

Danger H225-H319-H336

CP41.1	1 l	glass	17,55 €
CP41.2	2.5 l	glass	37,25 €
CP41.3	2.5 l	plastic	34,60 €
CP41.4	5 l	plastic	51,50 €
CP41.5	10 l	tinplate	85,40 €
CP41.6	25 l	tinplate	152,30 €

Trichloromethane/Chloroform

≥99 %, DAB, BP, extra pure

Chloroform

Warning H351-H373-H302-H315

6340.4	100 ml	glass	14,70 €
6340.1	1 l	glass	29,20 €
6340.2	2.5 l	glass	52,65 €
6340.5	25 l	tinplate	252,10 €

Xylene (isomers)

≥98.5 %, Ph.Helv., extra pure

Dimethylbenzene

Warning H226-H312-H332-H315

CN80.1	1 l	glass	22,35 €
CN80.2	2.5 l	glass	40,25 €
CN80.3	10 l	tinplate	108,45 €
CN80.4	25 l	tinplate	208,00 €



Solvents for Synthesis



These solvents are offered in very high purity (mostly >99 %), guaranteed through careful production, testing and packaging.

They are particularly suitable for all standard syntheses in laboratory and pilot plants, being used in production and technical industries.

Packaging:

Glass bottles: 1 l and 2.5 l
and partly
Plastic bottles: 1 l, 2.5 l, and 5 l
and 10 & 25 l ROTITAINER®
Other pack sizes on request.

Acetone

≥99.5 %, for synthesis

Danger H225-H319-H336-EUH066

5025.1	1 l	glass	14,45 €
5025.2	2.5 l	glass	31,90 €
5025.5	2.5 l	plastic	30,95 €
5025.6	5 l	plastic	42,40 €
5025.3	10 l	tinplate	74,10 €
5025.4	25 l	tinplate	157,80 €

Petroleum benzine 30-50

extra pure

Danger
H224-H304-H315-H336-H411

3523.1	1 l	glass	21,40 €
3523.2	10 l	tinplate	126,85 €

Petroleum benzine 30-75

extra pure

Danger
H225-H304-H315-H336-H411

8961.1	1 l	glass	17,90 €
8961.2	10 l	tinplate	87,25 €

Petroleum benzine 40-60

extra pure

Danger
H225-H304-H315-H336-H411

9320.1	1 l	glass	21,40 €
9320.3	5 l	aluminium	74,95 €
9320.2	10 l	tinplate	116,10 €

Petroleum benzine 40-80

extra pure

Danger
H225-H304-H361f-H373-H315-H336-H411

CP48.1	1 l	glass	19,75 €
CP48.2	5 l	aluminium	69,70 €
CP48.3	10 l	tinplate	116,10 €

Petroleum benzine 50-70

extra pure

Danger
H225-H304-H361f-H373-H315-H336-H411

0969.1	1 l	glass	23,60 €
0969.2	10 l	tin plate	156,95 €
0969.3	25 l	tin plate	288,10 €

Petroleum benzine 60-70

extra pure

Danger
H225-H304-H361f-H373-H315-H336-H411

9735.1	1 l	glass	21,45 €
9735.2	10 l	tinplate	126,85 €
9735.3	20 l	tinplate	195,65 €

Petroleum benzine 63-80

extra pure

Danger
H225-H304-H361f-H373-H315-H336-H411

5649.1	1 l	glass	21,45 €
5649.2	10 l	tinplate	126,85 €

Petroleum benzine 80-110

extra pure

Danger
H225-H304-H315-H336-H411

3259.1	1 l	glass	17,85 €
3259.2	10 l	tinplate	91,75 €

Petroleum benzine 100-140

extra pure

Danger
H225-H304-H315-H336-H411

9675.1	1 l	glass	15,10 €
9675.2	10 l	tinplate	73,60 €
9675.3	25 l	tinplate	146,50 €

Benzene

≥99.5 %, extra pure

Danger
H225-H340-H350-H372-H304-H315-H319

5785.3	100 ml	glass	12,30 €
5785.1	1 l	glass	30,05 €
5785.2	10 l	tinplate	192,45 €

1,4-Butanediol

≥99.5 %, for synthesis

Warning H302

4211.1	1 l	glass	22,00 €
4211.2	2.5 l	glass	40,70 €
4211.3	10 l	plastic	109,70 €

1-Butanol

≥99.5 %, for synthesis

Danger
H318-H226-H302-H335+H336-H315

7724.1	1 l	glass	23,25 €
7724.3	2.5 l	glass	35,35 €
7724.2	10 l	tinplate	94,85 €

2-Butanol

≥99 %, for synthesis

Warning H226-H319-H335+H336

KK02.1	500 ml	glass	20,30 €
KK02.2	1 l	glass	34,35 €

tert-Butanol

≥99 %, for synthesis

Danger H225-H332-H319-H335

4323.1	1 l	glass	19,85 €
4323.3	2.5 l	glass	34,95 €
4323.2	10 l	tinplate	123,95 €

2-Butanone

≥99.5 %, for synthesis

Danger H225-H319-H336-EUH066

8403.1	1 l	glass	18,65 €
8403.3	2.5 l	glass	31,75 €
8403.2	10 l	tinplate	85,80 €
8403.4	25 l	tinplate	167,70 €

tert-Butyl methyl ether

≥99.5 %, for synthesis

Danger H225-H315

6746.1	1 l	glass	15,60 €
6746.4	2.5 l	glass	28,50 €
6746.2	10 l	tinplate	85,80 €
6746.3	25 l	tinplate	164,50 €

γ-Butyrolactone

≥99 %, for synthesis

Warning H302-H332-H319

HN98.1	100 ml	glass	13,10 €
HN98.2	500 ml	glass	26,10 €
HN98.3	1 l	glass	47,45 €

Solvents for Synthesis

Chlorobenzene

≥99.5 %, for synthesis

Warning H226-H332-H411

KK01.1	100 ml	glass	10,55 €
KK01.2	500 ml	glass	16,50 €
KK01.3	1 l	glass	27,10 €

Cyclohexane

≥99.5 %, for synthesis

Danger
H225-H304-H400-H410-H315-H336

6570.1	1 l	glass	17,35 €
6570.3	2.5 l	glass	25,45 €
6570.2	10 l	tinplate	67,15 €
6570.4	25 l	tinplate	123,75 €

Cyclohexanone

≥99.5 %, extra pure

Warning H226-H332

CP27.1	1 l	glass	23,40 €
CP27.2	2.5 l	glass	41,25 €
CP27.3	10 l	tinplate	122,30 €
CP27.4	25 l	tinplate	216,05 €

1,2-Dichloroethane

≥99 %, for synthesis

Danger
H225-H350-H302-H315-H319-H335

T869.1	1 l	glass	16,40 €
T869.2	2.5 l	glass	32,20 €

Dichloromethane

>99.5 %, for synthesis

Warning H351

8424.4	100 ml	glass	7,90 €
8424.1	1 l	glass	16,05 €
8424.2	2.5 l	glass	31,25 €
8424.3	10 l	tinplate	83,30 €
8424.5	25 l	tinplate	139,95 €

Diethanolamine

≥98 %, for synthesis

Danger H318-H373-H302-H315

HN99.1	500 ml	plastic	25,40 €
HN99.2	1 l	plastic	41,85 €
HN99.3	2.5 l	plastic	96,75 €

Diethylamine

≥99.5 %, for synthesis

Danger
H225-H314-H302-H312-H332

KK00.1	100 ml	glass	10,65 €
KK00.2	500 ml	glass	17,70 €
KK00.3	1 l	glass	27,35 €

Diethylene glycol

≥99 %, for synthesis

Warning H302

0968.1	1 l	plastic	14,05 €
0968.2	2.5 l	plastic	23,45 €
0968.3	10 l	plastic	58,60 €
0968.4	25 l	plastic	132,10 €

Diethyl ether

≥99.5 %, for synthesis, stab.

Danger
H224-H302-H336-EUH019-EUH066

5920.2	1 l	glass	25,95 €
5920.3	5 l	aluminium	92,75 €
5920.4	25 l	tinplate	264,75 €

Diisopropylamine

≥99 %, for synthesis

Danger H225-H314-H302-H332



4369.1	100 ml	glass	10,70 €
4369.2	500 ml	glass	18,50 €
4369.3	1 l	glass	28,50 €

Diisopropyl ether

≥98 %, for synthesis, stab.

Danger H225-H336-EUH066-EUH019

T899.1	1 l	glass	15,90 €
T899.2	2.5 l	glass	26,40 €
T899.3	10 l	tinplate	80,85 €

N,N-Dimethylformamide

≥99.5 %, for synthesis

Danger
H226-H360D-H312-H332-H319

6251.1	1 l	glass	20,95 €
6251.2	2.5 l	glass	39,25 €
6251.3	2.5 l	plastic	34,90 €
6251.5	10 l	plastic	85,50 €
6251.4	25 l	tinplate	204,55 €

Dimethyl sulfoxide

≥99.5 %, for synthesis

7029.1	1 l	glass	26,20 €
7029.2	2.5 l	glass	51,75 €
7029.3	10 l	plastic	165,00 €

1,4-Dioxane

≥99,5 %, extra pure

Danger
H225-H351-H319-H335-EUH019-EUH066

4229.1	500 ml	glass	18,65 €
4229.2	1 l	glass	26,40 €
4229.3	2.5 l	glass	55,05 €
4229.4	25 l	tinplate	440,70 €

Acetic acid anhydride

≥99 %, for synthesis

Danger H314-H226-H302-H332

4483.1	1 l	glass	22,75 €
4483.2	2.5 l	glass	34,10 €

Acetic acid benzyl ester

≥99 %, for synthesis

Warning H315-H319-H335



4368.1	100 ml	glass	11,80 €
4368.2	500 ml	glass	25,25 €
4368.3	1 l	glass	107,00 €

Acetic acid n-butyl ester

≥99 %, for synthesis

Warning H226-H336-EUH066

4600.1	1 l	glass	18,75 €
4600.3	2.5 l	glass	28,00 €
4600.2	10 l	tinplate	82,10 €
4600.4	25 l	tinplate	163,80 €

Acetic acid ethyl ester

>99.5 %, for synthesis

Danger H225-H319-H336-EUH066

7338.1	1 l	glass	18,60 €
7338.3	2.5 l	glass	31,70 €
7338.2	10 l	tinplate	70,60 €
7338.4	25 l	tinplate	144,55 €

Ethanol denatured

≥99.8 %, with ~1 % MEK

Danger H225

K928.5	1 l	plastic	10,55 €
K928.1	2.5 l	glass	23,15 €
K928.3	2.5 l	plastic	21,30 €
K928.4	5 l	plastic	39,70 €
K928.6	10 l	tinplate	67,20 €
K928.2	25 l	tinplate	128,80 €

Ethanol 96 % denatured

≥96 %, with 1 % MEK

Danger H225

T171.5	1 l	plastic	9,65 €
T171.1	2.5 l	glass	20,40 €
T171.3	2.5 l	plastic	17,75 €
T171.4	5 l	plastic	33,90 €
T171.2	25 l	tinplate	104,25 €

Ethanol 70 % denatured

≥70 %, with 1 % MEK

Danger H225

T913.1	1 l	plastic	9,65 €
T913.2	2.5 l	plastic	16,10 €
T913.3	5 l	plastic	26,85 €

Ethylenediamine

≥99.5 %, for synthesis

Danger
H334-H314-H226-H302-H312-H317

4218.1	100 ml	glass	11,00 €
4218.2	500 ml	glass	14,20 €
4218.3	1 l	glass	21,65 €
4218.4	2.5 l	glass	43,60 €
4218.5	10 l	PE/steel	171,95 €

Ethylene glycol

≥99 %, for synthesis

Warning H302

9516.1	1 l	plastic	18,30 €
9516.3	2.5 l	plastic	34,85 €
9516.2	10 l	plastic	92,05 €
9516.4	25 l	plastic	167,90 €

Solvents for Synthesis

Ethylene glycol monobutyl ether

≥98 %, for synthesis

Warning H302-H312-H332-H315-H319

0341.1	1 l	glass	18,25 €
0341.2	2.5 l	glass	35,25 €

N-Ethyl-2-pyrrolidone

≥98 %

Danger H318

CN19.1	500 ml	glass	22,70 €
CN19.2	1 l	glass	33,40 €
CN19.3	2.5 l	glass	71,45 €
CN19.4	25 l	tinplate	507,70 €

n-Heptane

≥99 %, for synthesis

Danger

H225-H304-H400-H410-H315-H336

8654.1	1 l	glass	28,90 €
8654.3	2.5 l	glass	56,90 €
8654.2	10 l	tinplate	180,60 €
8654.4	25 l	tinplate	390,25 €

• ≥95 %, for synthesis

CP46.1	1 l	glass	25,30 €
CP46.2	2.5 l	glass	48,20 €
CP46.3	10 l	tinplate	160,20 €

Heptane (Isomers)

99 %, for synthesis

Danger

H225-H304-H315-H336-H411

7725.2	1 l	glass	17,60 €
7725.3	2.5 l	glass	28,25 €
7725.1	10 l	tinplate	79,35 €

n-Hexane

≥99 %, for synthesis

Danger

H225-H304-H361f-H373-H315-H336-H411

CP47.1	1 l	glass	38,10 €
CP47.2	2.5 l	glass	82,70 €
CP47.3	10 l	tinplate	289,20 €

• ≥95 %, for synthesis

3907.1	1 l	glass	26,85 €
3907.2	2.5 l	glass	52,65 €
3907.3	10 l	tinplate	181,70 €
3907.4	25 l	tinplate	366,60 €

Hexane isomers

≥95 % (isomers)

Danger

H225-H304-H361f-H373-H315-H336-H411

7782.1	1 l	glass	19,75 €
7782.3	2.5 l	glass	31,45 €
7782.2	10 l	tinplate	78,35 €

Isoamyl alcohol

≥98.5 %, for synthesis

Warning H226-H332-H335-EUH066

8930.1	1 l	glass	38,60 €
8930.2	2.5 l	glass	71,35 €

Isooctane

≥99.5 %, for synthesis

Danger

H225-H304-H400-H410-H315-H336

9860.1	1 l	glass	26,35 €
9860.3	2.5 l	glass	52,60 €
9860.2	10 l	tinplate	170,95 €

Methanol

≥99 %, for synthesis

Danger

H225-H301-H311-H331-H370

8388.1	1 l	glass	12,10 €
8388.2	2.5 l	glass	24,25 €
8388.5	2.5 l	plastic	20,65 €
8388.6	5 l	plastic	32,55 €
8388.3	10 l	tinplate	52,25 €
8388.4	25 l	tinplate	81,70 €

2-Methoxyethanol

≥99 %, for synthesis

Danger

H360FD-H226-H302-H312-H332

8892.1	1 l	glass	32,05 €
8892.2	2.5 l	glass	56,40 €

2-Methylbutane

≥99 %, for synthesis

Danger

H224-H304-H336-H411-EUH066

3927.1	1 l	glass	30,50 €
3927.2	2.5 l	glass	60,95 €

1-Methylimidazole

≥99 %, for synthesis

Danger H311-H314-H302

N353.1	100 ml	glass	16,15 €
N353.2	1 l	glass	81,10 €

2-Methyl-2,4-pentanediol

≥99 %

Warning H315-H319

CN17.1	100 ml	plastic	9,65 €
CN17.2	1 l	plastic	16,15 €
CN17.3	2.5 l	plastic	29,10 €
CN17.4	10 l	plastic	78,80 €

2-Methyl-1-propanol

≥99 %, for synthesis

Danger

H318-H226-H335-H336-H315

CP09.1	1 l	plastic	20,40 €
CP09.2	2.5 l	plastic	37,10 €
CP09.3	5 l	plastic	62,35 €

N-Methyl-2-pyrrolidone

≥99.8 %

Danger H360D-H315-H319-H335

4306.1	500 ml	glass	17,75 €
4306.2	2.5 l	glass	50,15 €
4306.5	25 l	tinplate	405,25 €

1-Octanol

≥99 %, for synthesis

Warning H319

4439.1	100 ml	glass	11,20 €
4439.2	500 ml	glass	18,80 €
4439.3	1 l	glass	27,75 €

n-Pentane

≥99 %, for synthesis

Danger

H225-H304-H336-H411-EUH066

8720.1	1 l	glass	30,05 €
8720.3	2.5 l	glass	57,90 €
8720.2	10 l	tinplate	207,50 €

• ≥95 %, extra pure

3747.1	1 l	glass	18,50 €
3747.3	2.5 l	glass	33,40 €
3747.2	10 l	tinplate	78,10 €
3747.4	25 l	tinplate	156,95 €

2-Phenoxyethanol

≥99 %, for synthesis

Warning H302-H319

4348.1	250 ml	glass	17,85 €
4348.2	1 l	glass	37,00 €
4348.3	10 l	tinplate	180,40 €

1,2-Propanediol

≥99.5 %, for synthesis

0340.1	1 l	glass	18,20 €
0340.2	2.5 l	glass	33,80 €
0340.3	5 l	plastic	61,30 €

1-Propanol

>99.5 %, for synthesis

Danger H225-H318-H336

9169.1	1 l	glass	20,65 €
9169.2	2.5 l	glass	36,55 €
9169.3	10 l	tinplate	95,55 €
9169.4	25 l	tinplate	173,40 €

2-Propanol

≥99.5 %, for synthesis

Danger H225-H319-H336

9866.1	1 l	glass	13,80 €
9866.2	2.5 l	glass	33,00 €
9866.5	2.5 l	plastic	31,90 €
9866.6	5 l	plastic	45,65 €
9866.3	10 l	tinplate	70,25 €
9866.4	25 l	tinplate	143,50 €

Solvents for Synthesis

2-Propanol 70 %

70 % pure

Danger H225-H319-H336

CN09.1	1 l	plastic	12,90 €
CN09.2	2.5 l	plastic	19,95 €
CN09.3	5 l	plastic	31,70 €
CN09.4	10 l	plastic	45,75 €
CN09.5	25 l	plastic	99,75 €

Pyridine

≥99 %, for synthesis

Danger H225-H302-H312-H332

CP07.1	500 ml	glass	26,50 €
CP07.2	1 l	glass	51,95 €
CP07.3	2.5 l	glass	105,70 €

α-Terpineol

~96 %, for synthesis

Warning H315-H319-H335



4418.1	5 ml	glass	9,65 €
4418.2	250 ml	glass	21,40 €
4418.3	1 l	glass	59,35 €

Tetrachloroethylene

>99.5 %, for synthesis

Warning H351-H411

4737.1	1 l	glass	19,85 €
4737.3	2.5 l	glass	34,60 €
4737.2	10 l	tinplate	99,60 €

Tetrahydrofuran

≥99.5 %, for synthesis

Danger H225-H319-H335-EUH019

4745.1	250 ml	glass	17,70 €
4745.2	1 l	glass	27,10 €
4745.3	2.5 l	glass	58,65 €
4745.5	25 l	tinplate	292,20 €

Toluene

≥99.5 %, for synthesis

Danger

H225-H304-H361d-H373-H315-H336

9558.1	1 l	glass	19,90 €
9558.3	2.5 l	glass	30,80 €
9558.2	10 l	tinplate	70,20 €
9558.4	25 l	tinplate	129,15 €

Trichloroethylene

≥98 %, for synthesis, stab.

Danger H350-H341-H315-H319-H336-H412

9579.1	1 l	glass	21,10 €
9579.3	2.5 l	glass	43,20 €
9579.2	10 l	tinplate	141,45 €

Trichloromethane/Chloroform

≥99 %, for synthesis

Warning H351-H373-H302-H315

Y015.1	1 l	glass	18,65 €
Y015.2	2.5 l	glass	31,40 €
Y015.3	10 l	tinplate	102,80 €
Y015.4	25 l	tinplate	192,80 €

Triethylamine

≥99.5 %, for synthesis

Danger

H225-H314-H302-H312-H332

X875.1	100 ml	glass	9,80 €
X875.2	500 ml	glass	13,50 €
X875.3	1 l	glass	19,85 €
X875.4	2.5 l	glass	35,60 €

2,2,2-Trifluoroethanol

>99.8 %, for synthesis

Danger

H301-H318-H226-H373-H312-H331-H315

CP29.1	100 ml	glass	28,65 €
CP29.2	250 ml	glass	51,35 €
CP29.3	1 l	glass	164,60 €

Xylene (isomers)

>98 %, pure, for histology

Warning H226-H312-H332-H315

9713.1	1 l	glass	20,35 €
9713.3	2.5 l	glass	37,30 €
9713.2	10 l	tinplate	95,85 €
9713.4	25 l	tinplate	177,35 €

m-Xylene

>98.5 %, for synthesis

Warning H226-H312-H332-H315

3791.1	1 l	glass	40,85 €
3791.2	2.5 l	glass	72,80 €

For peptide synthesis

Dichloromethane

≥99.9 %, for peptide synthesis

Warning H351

P089.1	2.5 l	glass	45,75 €
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N,N-Dimethylformamide

≥99.8 %, for peptide synthesis

Danger

H226-H360D-H312-H332-H319

A529.1	2.5 l	glass	78,50 €
A529.2	25 l	plastic	246,20 €

N-Methyl-2-pyrrolidone

≥99.8 %, for peptide synthesis

Danger H360D-H315-H319-H335

P052.1	2.5 l	glass	91,40 €
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Piperidine

≥98 %, for peptide synthesis

Danger H225-H311-H331-H314

A122.1	200 ml	glass	40,85 €
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Trifluoroacetic acid

≥99.9 %, for (peptide)-synthesis

Danger H314-H332-H412

P088.1	100 ml	glass	47,00 €
P088.2	500 ml	glass	140,10 €



Sekuroka® safety pumps made of high-grade steel please see catalogue 2011 p. 218!

Tri-Sure® barrel and keg key see p. 538!



ROTIDRY® Dried Solvents



The ROTIDRY®- solvents have a low water content and high product-purity. These solvents are, therefore, excellent for use in organic synthesis, DNA-synthesis and analysis.

Features:

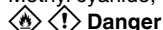
- Very low water content
- Extremely high product purity
- Low evaporation residue
- Filled under inert gas
- Particle filtration
- Good cost-performance ratio

Acetonitrile

ROTIDRY® ≥99.9 % (≤10 ppm H₂O)

Dried; for DNA synthesis and analysis.

Methyl cyanide, Cyanomethane

 **Danger**

H225-H302-H312-H332-H319

Guarantee analysis:

Assay (GC)..... ≥99,9 %
Colour (Hazen)..... ≤10
Water (KF)..... ≤0,001 %
Acidity..... ≤0,0005 meq/g
Evaporation residue..... ≤0,0005 %
Filtered through a membrane and filled under protective gas.

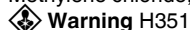
AE00.1	1 l	glass	28,95 €
AE00.2	2.5 l	glass	59,15 €
AE00.3	4 l	glass	81,60 €

Dichloromethane

ROTIDRY® ≥99.8 % (≤50 ppm H₂O)

Dried; for analysis and organic synthesis.

Methylene chloride, DCM

 **Warning H351**

Guarantee analysis:

Assay (GC)..... ≥99,8 %
Colour (Hazen)..... ≤10
Water (KF)..... ≤0,005 %
Acidity..... ≤0,0005 meq/g
Evaporation residue..... ≤0,0005 %
Stabilized with approx. 50 ppm amylene
Filtered through a membrane and filled under protective gas.

AE03.1	1 l	glass	22,10 €
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Diethyl ether

ROTIDRY® ≥99.5 % (≤50 ppm H₂O)

Dried; for analysis and organic synthesis.

Ether, Ethyl ether

 **Danger**

H224-H302-H336-EUH019-EUH066

Guarantee analysis:

Assay (GC)..... ≥99,5 %
Colour (Hazen)..... ≤10
Water (KF)..... ≤0,005 %
Acidity..... ≤0,0005 meq/g
Evaporation residue..... ≤0,001 %
Stabilized with approx. 5 ppm BHT
Filtered through 0.2 µm membrane and filled under protective gas.

AE04.1	1 l	glass	33,35 €
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Dimethyl sulphoxide

ROTIDRY® ≥99.5 % (≤200 ppm H₂O)

Dried; for analysis and organic synthesis.

DMSO

Guarantee analysis:

Assay (GC)..... ≥99,5 %
Colour (Hazen)..... ≤10
Water (KF)..... ≤0,02 %
Acidity..... ≤0,0005 meq/g
Evaporation residue..... ≤0,005 %
Filtered through a membrane and filled under protective gas.

AE02.1	1 l	glass	44,45 €
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n-Hexane

ROTIDRY® ≥99 % (≤50 ppm H₂O)

Dried; for analysis and organic synthesis.

1-Methylpentane

 **Danger**

H225-H304-H361f-H373-H315-H336-H411

Guarantee analysis:

Assay (GC)..... ≥99,0 %
Colour (Hazen)..... ≤10
Water (KF)..... ≤0,005 %
Acidity..... ≤0,0005 meq/g
Evaporation residue..... ≤0,0005 %
Filtered through a membrane and filled under protective gas.

AE05.1	1 l	glass	50,00 €
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Methanol

ROTIDRY® ≥99.9 % (≤50 ppm H₂O)

Dried; for analysis and organic synthesis.

Methyl alcohol, Carbinol

 **Danger**

H225-H301-H311-H331-H370

Guarantee analysis:

Assay (GC)..... ≥99,9 %
Colour (Hazen)..... ≤10
Water (KF)..... ≤0,005 %
Acidity..... ≤0,0005 meq/g
Evaporation residue..... ≤0,0005 %
Filtered through a membrane and filled under protective gas.

AE01.1	1 l	glass	21,45 €
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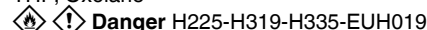
AE01.2	2.5 l	glass	37,60 €
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Tetrahydrofuran

ROTIDRY® ≥99.9 % (≤50 ppm H₂O)

Dried; for analysis and organic synthesis.

THF, Oxolane

 **Danger** H225-H319-H335-EUH019

Guarantee analysis:

Assay (GC)..... ≥99,9 %
Colour (Hazen)..... ≤10
Water (KF)..... ≤0,005 %
Acidity..... ≤0,0005 meq/g
Evaporation residue..... ≤0,001 %
Stab. with approx. 250 ppm BHT
Filtered through a membrane and filled under protective gas.

AE07.1	1 l	glass	36,45 €
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Toluene

ROTIDRY® ≥99.5 % (≤50 ppm H₂O)

Dried; for analysis and organic synthesis.

Methylbenzene

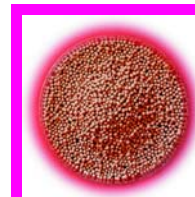
 **Danger**

H225-H304-H361d-H373-H315-H336

Guarantee analysis:

Assay (GC)..... ≥99,5 %
Colour (Hazen)..... ≤10
Water (KF)..... ≤0,005 %
Acidity..... ≤0,0005 meq/g
Evaporation residue..... ≤0,0005 %
Filtered through a membrane and filled under protective gas.

AE06.1	1 l	glass	28,95 €
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Molecular sieves for drying, please see catalogue 2011 p. 1058.

ROTISOLV® HPLC, LC-MS and Ultra LC-MS

More than 25 years ago, the company Carl Roth GmbH + Co. KG launched its first solvent for the HPLC market. Since then, this product line continuously expanded and new products were developed in order to meet the requirements of modern instrumental analysis up to Ultra-Fast LC-MS.

These highly pure solvents are produced and bottled using sophisticated up-to-date production processes. Hereby, stringent manufacturing and quality controls guarantee a particularly good quality with high lot-to-lot consistency.



Quality characteristic:

ROTISOLV® Ultra LC-MS

- ✓ Filtered through a 0.1 µm membrane
- ✓ Extra high purity (≥99.98 %)
- ✓ Bottled under protective gas
- ✓ High UV-permeability
- ✓ Low fluorescence
- ✓ LC-MS suitability tested
- ✓ Solid residue from evaporation max. 1 ppm
- ✓ Metal trace impurities max. 100 ppb

ROTISOLV® LC-MS

- ✓ High chemical purity (≥99.95 %)
- ✓ High UV-permeability
- ✓ Low fluorescence
- ✓ Superior gradient base line
- ✓ Trace impurities ≤0.05 ppm
- ✓ Tested on LC-MS suitability
- ✓ Filtered through a 0.2 µm membrane
- ✓ Bottled under inert gas

ROTISOLV® HPLC

- ✓ High chemical purity
- ✓ High UV-permeability
- ✓ Low fluorescence
- ✓ Low solid residue from evaporation
- ✓ Low water and acid content
- ✓ Filtered through a 0.2 µm membrane
- ✓ Bottled under inert gas

Acetonitrile

⚠ ⚠ Danger H225-H319-H302-H312-H332

Quality	Art. No.	Pack Qty. (l)	€
ROTISOLV® ≥99.98 %, Ultra LC-MS	HN40.1	1	67,55
	HN40.2	2.5	126,85
ROTISOLV® ≥99.95 %, LC-MS Grade	AE70.1	1	62,35
	AE70.2	2.5	101,05
ROTISOLV® HPLC Ultra Gradient Grade	T195.1	1	58,05
	T195.2	2.5	96,65
ROTISOLV® HPLC Gradient Grade	8825.1	1	37,10
	8825.2	2.5	76,35
ROTISOLV® HPLC Grade	HN44.3	4	97,25
ROTISOLV® HPLC	7330.1	1	29,80
	7330.2	2.5	60,20
ROTISOLV® HPLC, isocratic	CN20.1	1	28,95
	CN20.2	2.5	55,90

Methanol

⚠ ⚠ ⚠ Danger H225-H301-H311-H331-H370

Quality	Art. No.	Pack Qty. (l)	€
ROTISOLV® ≥99.98 %, Ultra LC-MS	HN41.1	1	26,90
	HN41.2	2.5	61,30
ROTISOLV® ≥99.95 %, LC-MS Grade	AE71.1	1	22,60
	AE71.2	2.5	48,40
ROTISOLV® HPLC Ultra Gradient Grade	X948.1	1	18,90
	X948.2	2.5	34,40
ROTISOLV® HPLC Gradient Grade	7342.2	1	18,10
	7342.1	2.5	29,60
ROTISOLV® HPLC	P717.2	1	15,00
	P717.1	2.5	24,15

Water

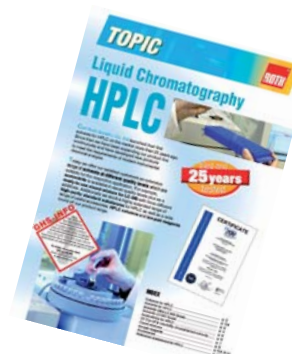
Quality	Art. No.	Pack Qty. (l)	€
ROTISOLV® Ultra LC-MS	HN43.1	1	28,35
	HN43.2	2.5	60,20
ROTISOLV® LC-MS Grade	AE72.1	1	23,15
	AE72.2	5	105,35
ROTISOLV® HPLC, Gradient Grade	A511.1	1	13,50
	A511.2	2.5	24,70
	A511.3	5	46,40

ROTISOLV® HPLC and LC-MS Solvents

Product	Quality	GHS identification	Art. No.	Pack Qty. (l)	€
Acetone	ROTISOLV® HPLC	⚠ ⚠ Danger H225-H319-H336-EUH066	7328.1	1	22,00
			7328.2	2.5	39,10
Acetic acid ethyl ester	ROTISOLV® LC-MS Gradient Grade	⚠ ⚠ Danger H225-H319-H336-EUH066	AE69.1	1	36,50
			AE69.2	2.5	75,05
	ROTISOLV® HPLC	⚠ ⚠ Danger H225-H319-H336-EUH066	7336.2	1	28,85
			7336.1	2.5	55,30
1-Butanol	ROTISOLV® HPLC	⚠ ⚠ ⚠ Danger H318-H226-H302-H335+H336-H315	T178.1	2.5	76,50
tert-Butyl methyl ether	ROTISOLV® HPLC	⚠ ⚠ Danger H225-H315	T175.2	1	32,25
			T175.1	2.5	75,20
Cyclohexane	ROTISOLV® HPLC	⚠ ⚠ ⚠ ⚠ Danger H225-H304-H400-H410-H315-H336	7333.2	1	36,35
			7333.1	2.5	66,15
Dichloromethane	ROTISOLV® HPLC, not stabilised	⚠ Warning H351	7334.2	1	27,90
			7334.1	2.5	44,45
1,4-Dioxane	ROTISOLV® HPLC, not stabilised	⚠ ⚠ ⚠ Danger H225-H351-H319-H335-EUH019-EUH066	X949.1	1	49,15
			X949.2	2.5	107,30
Ethanol	ROTISOLV® HPLC Gradient Grade	⚠ Danger H225	P076.1	1	74,40
			P076.2	2.5	152,25
n-Heptane	ROTISOLV® HPLC	⚠ ⚠ ⚠ ⚠ Danger H225-H304-H400-H410-H315-H336	7337.2	1	36,90
			7337.1	2.5	78,95
n-Hexane	ROTISOLV® HPLC	⚠ ⚠ ⚠ ⚠ Danger H225-H304-H361f-H373-H315-H336-H411	7339.2	1	31,05
			7339.1	2.5	64,45
Isohexane	ROTISOLV® HPLC	⚠ ⚠ ⚠ ⚠ Danger H225-H304-H315-H336-H411	T176.2	1	40,80
			T176.1	2.5	82,00
Isooctane	ROTISOLV® HPLC	⚠ ⚠ ⚠ ⚠ Danger H225-H304-H400-H410-H315-H336	7340.1	2.5	80,65
n-Pentane	ROTISOLV® HPLC	⚠ ⚠ ⚠ ⚠ Danger H225-H304-H336-H411-EUH066	CN99.1	1	47,85
			CN99.2	2.5	106,25
1-Propanol	ROTISOLV® HPLC	⚠ ⚠ ⚠ Danger H225-H318-H336	T177.1	2.5	91,40
2-Propanol	ROTISOLV® LC-MS -Grade	⚠ ⚠ Danger H225-H319-H336	AE73.1	1	29,35
			AE73.2	2.5	57,50
	ROTISOLV® HPLC	⚠ ⚠ Danger H225-H319-H336	7343.2	1	25,75
			7343.1	2.5	53,70
Tetrahydrofuran	ROTISOLV® HPLC, not stabilised	⚠ ⚠ Danger H225-H319-H335-EUH019	7344.1	1	39,55
			7344.2	2.5	80,25
Toluene	ROTISOLV® HPLC	⚠ ⚠ ⚠ Danger H225-H304-H361d-H373-H315-H336	7346.2	1	28,80
			7346.1	2.5	59,35
Trichloromethane/Chloroform	ROTISOLV® HPLC	⚠ ⚠ Warning H351-H373-H302-H315	7331.2	1	30,00
			7331.1	2.5	64,45

ROTISOLV® LC-MS Eluent Mixes

Solvent	Admixture	Art. No.	Pack Qty. (l)	€
Acetonitrile	0.1 % with Formic acid	CP00.1	1	62,55
		CP00.2	2.5	139,75
	0.1 % with Acetic acid	CP01.1	1	62,55
		CP01.2	2.5	56,75
	0.1 % Trifluoroacetic acid	CP02.1	1	62,55
		CP02.2	2.5	139,75
Methanol	0.1 % Trifluoroacetic acid	CP06.1	1	27,45
		CP06.2	2.5	59,80
Water	0.1 % Formic acid	CP03.1	1	33,60
		CP03.2	2.5	58,45
	0.1 % Acetic acid	CP04.1	1	33,60
		CP04.2	2.5	64,40
	0.1 % Trifluoroacetic acid	CP05.1	1	34,30
		CP05.2	2.5	64,40



For further informations and products, please see our Topic-Flyer "Liquid chromatography HPLC".

Further information and safety data see catalogue 2011 or online at www.carlroth.com

ROTISOLV[®]-Headspace Grade Solvents

For determination of solvent residues (O.V.I.) by Headspace gas chromatography. Headspace gas chromatography is a major quality control procedure particularly in the pharmaceutical and food industry. The regulations for this method can be found both in the European as well as the American Pharmacopoeia.

High-boiling solvents of excellent purity, which show no background due to organic volatile impurities on the GC-columns, are required for determining solvent residues.

Advantage:

- Highest purity (mostly $\geq 99.99\%$)
- High boiling point
- Non volatile matter: $\leq 0.001\%$ or less
- Tested for Headspace suitability (O.V.I.)
- Bottled under protective gas
- Microfiltered



N,N-Dimethylacetamide

ROTISOLV[®] $\geq 99.99\%$, Headspace Grade

For determination of solvent residues (O.V.I.)

DMA, Acetic acid dimethylamide

Danger H360D-H312-H332

HN45.1 1 l glass 189,20 €

N,N-Dimethylformamide

ROTISOLV[®] $\geq 99.99\%$, Headspace Grade

For determination of solvent residues (O.V.I.)

DMF

Danger H226-H360D-H312-H332-H319

HN46.1 1 l glass 170,95 €

1,3-Dimethyl-2-imidazolidinone

ROTISOLV[®] $\geq 99.5\%$, Headspace Grade

For determination of solvent residues (O.V.I.)

DMEU, N,N'-Dimethylethylene urea, DMI

Danger H311-H302-H319

HN48.1 500 ml glass 695,55 €

Dimethylsulphoxide

ROTISOLV[®] $\geq 99.99\%$, Headspace Grade

For determination of solvent residues (O.V.I.)

DMSO

HN47.1 1 l glass 180,60 €

Example of specification:

N,N-Dimethylformamide

N,N-Dimethylformamide

ROTISOLV[®] $\geq 99.99\%$, Headspace Grade

For determination of solvent residues (O.V.I.)

DMF

C_3H_7NO

M 73,10 g/mol

D 0,95 · bp $\sim 153\text{ }^\circ\text{C}$

mp $-61\text{ }^\circ\text{C}$ · flp $58\text{ }^\circ\text{C}$

[68-12-2]

EC No 200-679-5 · UN No. 2265

ADR 3 III · WGK 1

Danger H226-H360D-H312-H332-H319

Guarantee analysis:

Assay (GC)..... $\geq 99.99\%$
 Colour (APHA)..... ≤ 5
 Water (KF)..... $\leq 0.03\%$
 Free acid (as CH_3COOH)..... $\leq 0.003\%$
 Free alkali (as NH_3)..... $\leq 0.002\%$
 Refractive index ($20\text{ }^\circ\text{C}$)..... 1.430-1.440
 Non volatile matter..... $\leq 0.001\%$
 UV-Cutoff..... 190-268 nm

Transmission:

320 nm..... $\geq 97\%$
 300 nm..... $\geq 90\%$
 275 nm..... $\geq 60\%$
 270 nm..... $\geq 30\%$
 Headspace suitability test for O.V.I. complies

ROTISOLV®-GC Ultra Grade Solvents

In order to monitor and analyse environmentally relevant substances such as pesticides, dioxins, furans, PAH, PCB etc. in trace analysis, solvents with exceedingly high purity specifications are required.

ROTH's ROTISOLV® GC Ultra grade solvents have been developed specially for this field of application and are produced with the most sophisticated production processes. Extensive quality checks guarantee the same high-grade quality from batch to batch.

Features:

- Highest purity
- Very low water content
- Non volatile matter max. 1-2 ppm
- Quality control by means of ECD and NPD
- PAH-test using UV and fluorimetric detectors
- Filtered through a 0.2 µm membrane
- Bottled under protective gas



Acetic acid ethyl ester

ROTISOLV® ≥99.9 %, GC Ultra Grade

For gaschromatographical residue analysis.

Ethyl acetate

C₄H₈O₂

M 88,11 g/mol

Danger H225-H319-H336-EUH066

KK42.1 2.5 l glass 53,70 €

Acetone

ROTISOLV® ≥99.9 %, GC Ultra Grade

For gaschromatographical residue analysis.

2-Propanone, Dimethyl ketone

C₃H₆O

M 58,08 g/mol

Danger H225-H319-H336-EUH066

KK40.1 2.5 l glass 46,25 €

Cyclohexane

ROTISOLV® ≥99.9 %, GC Ultra Grade

For gaschromatographical residue analysis.

Hexahydrobenzene, Hexahydroxybenzene, Naphthene

C₆H₁₂

M 84,16 g/mol

Danger

H225-H304-H400-H410-H315-H336

KK41.1 2.5 l glass 66,65 €

Dichloromethane

ROTISOLV® ≥99.9 %, GC Ultra Grade

For gaschromatographical residue analysis.

Methylene chloride, DCM

CH₂Cl₂

M 84,93 g/mol

Warning H351

KK47.1 2.5 l glass 53,05 €

n-Hexane

ROTISOLV® ≥95%, GC Ultra Grade

For gaschromatographical residue analysis.

1-Methylpentane

C₆H₁₄

M 86,18 g/mol

Danger

H225-H304-H361f-H373-H315-H336-H411

KK48.1 2.5 l glass 78,95 €

Methanol

ROTISOLV® ≥99.9 %, GC Ultra Grade

For gaschromatographical residue analysis.

Methyl alcohol, Carbinol

CH₃O

M 32,04 g/mol

Danger

H225-H301-H311-H331-H370

KK44.1 2.5 l glass 37,00 €

n-Pentane

ROTISOLV® ≥99 %, GC Ultra Grade

For gaschromatographical residue analysis.

1,3-Dimethylpropane, Diethylmethane

C₅H₁₂

M 72,15 g/mol

Danger

H225-H304-H336-H411-EUH066

KK45.1 2.5 l glass 162,35 €

Toluene

ROTISOLV® ≥99.8 %, GC Ultra Grade

For gaschromatographical residue analysis.

Methylbenzene

C₇H₈

M 92,14 g/mol

Danger

H225-H304-H361d-H373-H315-H336

KK46.1 2.5 l glass 57,35 €

Example of specification:

Acetone

ROTISOLV® ≥99.9 %, GC Ultra Grade

For gaschromatographical residue analysis.

Guarantee analysis:

Assay (GC).....	≥99.9 %
Colour (APHA).....	≤10
Water (KF).....	≤0.25 %
Free acid (as CH ₃ COOH).....	≤0.002 %
Evaporation residue.....	≤0.0002 %
GC/ECD dioxins, furans and PCBs (as lindane).....	≤5 ng/l
GC/ECD pesticides (as lindane).....	≤5 ng/l
GC/NPD pesticides (as parathion).....	≤5 ng/l
PAH-test (UV- and fluorimetric detectors).....	complies

Filtered through 0.2 µm membrane and filled under protective gas.

ROTISOLV®-Pestilyse for Residue and Environmental Analysis

Roth's solvents for gas chromatographic analysis of residues. Field of application: 'pesticide residue analysis' (via ECD, PND detection) in sectors environment, foodstuffs, water, etc.

ROTISOLV®-Pestilyse® is, therefore, eminently suited as an extracting agent for separating, concentrating and purifying residues.

Advantage:

- Highest purity
- Quality control via ECD and PND
- Non volatile parts: 5 ppm or less
- Bottled under inert gas
- Specially purified for application in pesticide residue analysis



Acetic acid ethyl ester

ROTISOLV® ≥99.8 %, Pestilyse®

For residue and environmental analysis.

Danger H225-H319-H336-EUH066

T164.1 2.5 l glass 48,40 €

Acetone

ROTISOLV® ≥99.8 %, Pestilyse®

Danger H225-H319-H336-EUH066

T161.1 2.5 l glass 38,65 €

Acetonitrile

ROTISOLV® ≥99.9 %, Pestilyse®

Danger

H225-H302-H312-H332-H319

T168.1 2.5 l glass 57,00 €

Cyclohexane

ROTISOLV® ≥99.5 %, Pestilyse®

Danger

H225-H304-H400-H410-H315-H336

T163.1 2.5 l glass 60,20 €

Dichloromethane

ROTISOLV® ≥99.8 %, Pestilyse®

Warning H351

T162.1 2.5 l glass 49,00 €

Diethyl ether

ROTISOLV® ≥99.8 %, Pestilyse®

Danger

H224-H302-H336-EUH019-EUH066

T900.1 2.5 l glass 63,45 €

n-Heptane

ROTISOLV® ≥99 %, Pestilyse®

Danger

H225-H304-H400-H410-H315-H336

X878.1 2.5 l glass 78,30 €

n-Hexane

ROTISOLV® ≥99 %, Pestilyse®

Danger

H225-H304-H361f-H373-H315-H336-H411

T861.1 2.5 l glass 96,70 €

n-Hexane

ROTISOLV® ≥97.5 %, Pestilyse®

Danger

H225-H304-H361f-H373-H315-H336-H411

T165.1 2.5 l glass 75,15 €

Isohexane

ROTISOLV® ≥98 %, Pestilyse®

Danger

H225-H304-H315-H336-H411

T904.1 2.5 l glass 67,15 €

Isooctane

ROTISOLV® ≥99.5 %, Pestilyse®

Danger

H225-H304-H400-H410-H315-H336

T167.1 2.5 l glass 77,65 €

Methanol

ROTISOLV® ≥99.9 %, Pestilyse®

Danger

H225-H301-H311-H331-H370

T169.1 2.5 l glass 21,45 €

n-Pentane

ROTISOLV® ≥99 %, Pestilyse®

Danger

H225-H304-H336-H411-EUH066

T903.1 2.5 l glass 76,35 €

Petroleum ether 40-60 °C

ROTISOLV® Pestilyse®

Danger

H225-H304-H315-H336-H411

T170.1 2.5 l glass 53,15 €

2-Propanol

ROTISOLV® ≥99.8 %, Pestilyse®

Danger H225-H319-H336

T902.1 2.5 l glass 41,35 €

Toluene

ROTISOLV® ≥99.8 %, Pestilyse®

Danger

H225-H304-H361d-H373-H315-H336

T166.1 2.5 l glass 48,40 €

Trichloromethane/ Chloroform

ROTISOLV® ≥99.8 %, Pestilyse®

Warning H351-H373-H302-H315

T901.1 2.5 l glass 57,95 €

Water

ROTISOLV® Pestilyse®

T905.1 2.5 l glass 35,70 €

ROTISOLV®-UV/IR for Spectroscopy



Your advantage:

ROTISOLV® UV/IR-Grade solvents are specially adapted for spectrophotometric processes and other chromatographic applications which require high spectroscopic purity!

Features:

- High chemical purity
- Spectroscopically tested for UV and IR
- High UV-permeability
- Low fluorescence

Acetone

ROTISOLV® ≥99.9 %, UV/IR-Grade

For chromatography and spectroscopy.

Danger H225-H319-H336-EUH066

T906.1 2.5 l glass 38,45 €

Acetonitrile

ROTISOLV® ≥99.9 %, UV/IR-Grade

For chromatography and spectroscopy.

Danger H225-H302-H312-H332-H319

T907.1 2.5 l glass 68,80 €

Cyclohexane

ROTISOLV® ≥99.9 %, UV/IR-Grade

For chromatography and spectroscopy.

Danger

H225-H304-H400-H410-H315-H336

CP81.1 2.5 l glass 69,05 €

N,N-Dimethylformamide

ROTISOLV® ≥99.9 %, UV/IR-Grade

For chromatography and spectroscopy.

Danger

H226-H360D-H312-H332-H319

CP79.1 2.5 l glass 71,25 €

n-Heptane

ROTISOLV® ≥99 %, UV/IR-Grade

For chromatography and spectroscopy.

Danger

H225-H304-H400-H410-H315-H336

CP78.1 2.5 l glass 83,00 €

n-Hexane

ROTISOLV® ≥99 %, UV/IR-Grade

For chromatography and spectroscopy.

Danger

H225-H304-H361f-H373-H315-H336-H411

T908.1 2.5 l glass 83,85 €

Isooctane

ROTISOLV® ≥99.8 %, UV/IR-Grade

For chromatography and spectroscopy.

Danger

H225-H304-H400-H410-H315-H336

CP80.1 2.5 l glass 85,25 €

Methanol

ROTISOLV® ≥99.9 %, UV/IR-Grade

For chromatography and spectroscopy.

Danger

H225-H301-H311-H331-H370

T909.1 2.5 l glass 24,20 €

2-Propanol

ROTISOLV® ≥99.9 %, UV/IR-Grade

For chromatography and spectroscopy.

Danger H225-H319-H336

T910.1 2.5 l glass 53,55 €

Tetrachloroethylene

ROTISOLV® ≥99.9 %, UV/IR-Grade

For chromatography and spectroscopy.

Warning H351-H411

CP83.1 2.5 l glass 64,45 €

Tetrahydrofuran

ROTISOLV® ≥99.9 %, UV/IR-Grade

For chromatography and spectroscopy.

Danger H225-H319-H335-EUH019

CP82.1 2.5 l glass 75,15 €



Deuterated Solvents

Roth's NMR solvents & reagents for nuclear resonance spectroscopy.

Examples of application: Routine tasks such as constitutional determination and identity identification in research and development laboratories.

Features:

- High deuterising grade
- Defined water content



Type	Purity	Art. No.	Pack Qty.	€
Acetone D6	99.8 Atom%D	AE51.1	10 ml	31,90
		AE51.2	50 ml	150,20
Acetonitrile D3	99.5 Atom%D	AE52.1	10 ml	50,30
		AE52.2	25 ml	105,90
Benzene D6	99.5 Atom%D	AE53.1	10 ml	31,80
		AE53.2	50 ml	136,15
Bromobenzene D5	99.5 Atom%D	HN93.1	10 ml	85,25
Deuterium oxide	100 Atom%D	HN81.1	10 ml	16,25
		HN81.2	50 ml	64,80
		HN81.3	10 x 0.75 ml	21,50
	99.8 Atom%D	6672.1	10 ml	18,95
		6672.2	25 ml	33,40
		6672.3	100 ml	106,95
6672.4	500 ml	465,40		
Dichloromethane D2	99.5 Atom%D	AE55.1	10 ml	63,70
		AE55.2	25 ml	141,60
1,2-Dichlorobenzene D4	99 Atom%D	HN82.1	5 ml	140,35
N,N-Dimethylformamide D7	99.5 Atom%D	CP92.1	5 ml	136,15
Dimethyl sulphoxide D6	99.8 Atom%D	AE56.1	10 ml	22,25
		AE56.2	50 ml	85,05
		AE56.3	10 x 0.75 ml	22,25
Dimethyl sulphoxide D6 with TMS (0.03 vol.%)	99.8 Atom%D	AE60.1	10 ml	22,55
		AE60.2	50 ml	85,40
Ethanol D1	99.5 Atom%D	HN84.1	50 ml	78,80
Ethanol D6	99 Atom%D	CP93.1	5 ml	138,85
Methanol D1	99.5 Atom%D	HN86.1	25 ml	34,55
		HN86.2	100 ml	121,05
Methanol D4	99.8 Atom%D	AE57.1	10 ml	44,55
		AE57.2	50 ml	191,25
		AE57.3	10 x 0.75 ml	46,00
Nitromethane D3	99 Atom%D	HN91.1	10 ml	75,55
Pyridine D5	99.5 Atom%D	CP94.1	10 ml	68,10
1,1,2,2-Tetrachloroethane D2	99.6 Atom%D	CP96.1	10 ml	55,15
Tetrahydrofurane D8	99.5 Atom%D	AE58.1	10 ml	142,65
Toluene D8	99.5 Atom%D	CP95.1	10 ml	62,35
Trichloromethane/Chloroform D1	100 Atom%D	CP91.1	10 x 0.75 ml	17,85
Trichloromethane/Chloroform D1	99.8 Atom%D, stab. with Ag	AE54.1	100 ml	32,30
		AE54.2	500 ml	145,90
Trichloromethane/Chloroform D1 with TMS (0.03 vol.%)	99.8 Atom%D, stab. with Ag	AE59.1	100 ml	32,30

More deuterated compounds as well as additional information and safety information see catalogue 2011 or online at www.carlroth.com

Ionic Liquids



The NEW GENERATION of solvents

Definition:

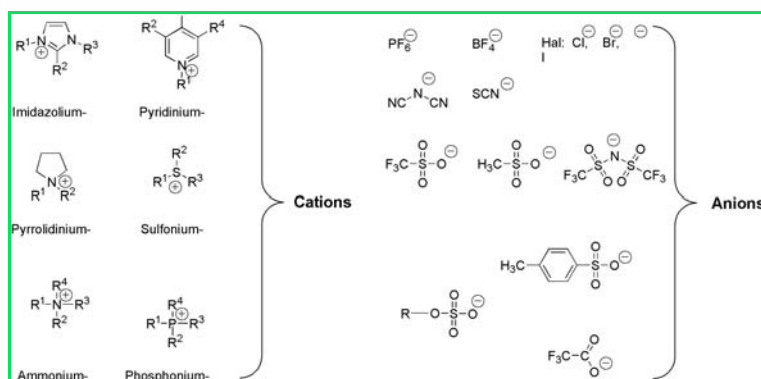
Ionic liquids are salts which are available in a liquid state over a wide temperature range. They constitute a new generation of solvents with considerable potential for being able to replace classic organic solvents.

Ionic liquids are composed of organic cations and organic or anorganic anions. Due to their fully ionized composition they exhibit no vapor pressure over the entire liquid range.

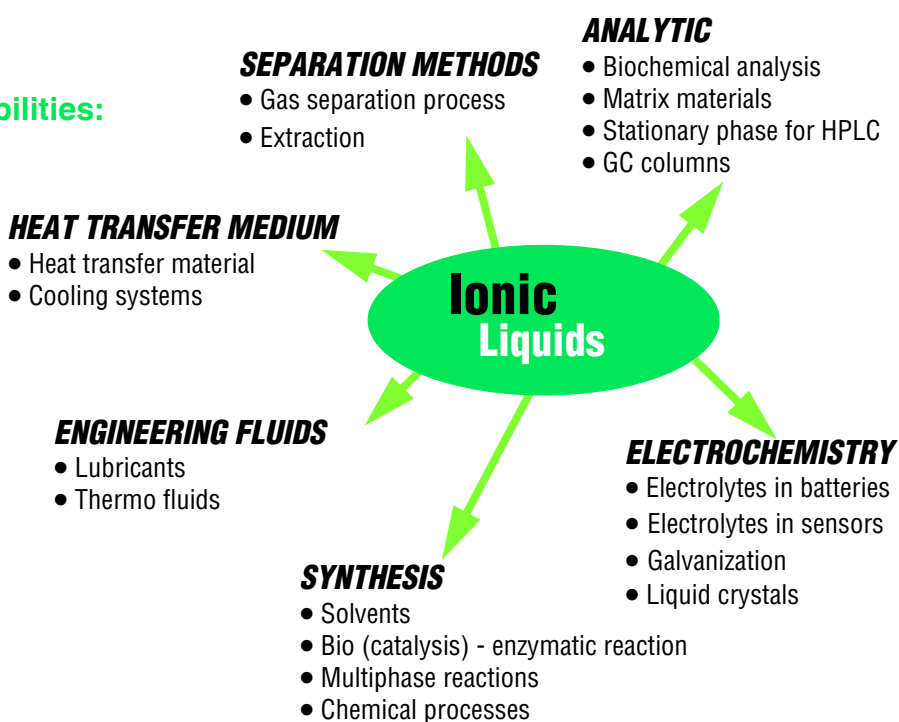
Properties:

- Low-melting with melting point under 100 °C
- Thermally, mechanically and electrochemically stable
- Unlike conventional solvents, they are neither volatile nor combustible
- Negligible vapor pressure
- High solubility of many different kinds of chemicals

Constitution:



Application possibilities:



Ionic Liquids

This ROTH product range provides a choice of ionic liquids with very interesting properties. Due to the largely free combination of cations and anions, a variety of ionic liquids (designer-solvents) can be imagined. Experts estimate that number to about 10^{18} .

Their properties can, therefore, be adapted to a given solution or separation problem.

Type	Short name	Assay	Art. No.	Pack Qty. (g)	€
1-Butyl-3-methyl-imidazolium-chloride	BMIM CL	≥99 %	2010.1	25	110,25
			2010.2	100	196,60
1-Butyl-3-methyl-imidazolium-hexafluorophosphate	BMIM PF6	≥99 %	2012.1	25	92,75
			2012.2	100	217,65
1-Butyl-3-methyl-imidazolium-tetrafluoroborate	BMIM BF4	≥99 %	2014.1	25	92,75
			2014.2	100	211,95
1-Butyl-3-methylimidazolium-trifluoromethansulfonate	BMIM Otf	≥99 %	2015.1	25	183,45
			2015.2	100	523,90
1-Butyl-1-methyl-pyrrolidinium bis(trifluoromethylsulphonyl)-imide	BMPyrr NTf2	≥99 %	2021.1	25	143,75
			2021.2	100	297,95
1-Butyl-1-methyl-pyrrolidinium-dicyanamide	BMPyrr N(CN)2	≥98 %	2022.1	25	285,60
			2022.2	100	617,95
Butyl-trimethyl-ammonium-bis(trifluoromethylsulphonyl)-imide	N1114 BTA	≥99 %	2025.1	25	172,15
			2025.2	100	399,10
Cholin-dihydrogenphosphate	Choline DHP	≥98 %	2028.1	25	206,75
			2028.2	100	468,85
Ethylammonium-nitrate	EAN	≥97 %	2035.1	25	132,45
			2035.2	100	299,15
1-Ethyl-3-methyl-imidazolium-bromide	EMIM Br	≥99 %	2037.1	25	144,35
			2037.2	100	253,40
1-Ethyl-3-methyl-imidazolium-dicyanamide	EMIM N(CN)2	≥98 %	2053.1	25	236,95
			2053.2	100	592,25
1-Ethyl-3-methyl-imidazolium-ethylsulphate	EMIM EtOSO3	≥99 %	2054.1	25	70,05
			2054.2	100	160,90
1-Ethyl-3-methyl-imidazolium-methanesulphonate	EMIM OMS	≥99 %	2056.1	25	166,45
			2056.2	100	412,10
1-Ethyl-3-methyl-imidazolium-thiocyanate	EMIM SCN	≥98 %	2059.1	25	215,85
			2059.2	100	567,60
1-Ethyl-3-methyl-imidazolium-trifluoromethanesulphonate	EMIM OTF	≥99 %	2062.1	25	181,05
			2062.2	100	550,30
1-Hexyl-3-methyl-imidazolium-chloride	HMIM Cl	≥98 %	2064.1	25	183,45
			2064.2	100	331,05
1-Hexyl-3-methyl-imidazolium-hexafluorophosphate	HMIM PF6	≥99 %	2069.1	25	109,80
			2069.2	100	251,70
1-Hexyl-3-methyl-imidazolium-tetrafluoroborate	HMIM BF4	≥99 %	2070.1	25	115,40
			2070.2	100	240,35
1-Methyl-3-octyl-imidazolium-hexafluorophosphate	OMIM PF6	≥99 %	2076.1	25	143,75
			2076.2	100	314,10
1-Methyl-3-octyl-imidazolium-tetrafluoroborate	OMIM BF4	≥99 %	2081.1	25	132,45
			2081.2	100	285,70
1-Methyl-3-propyl-imidazolium-iodide	PMIM I	≥98 %	2091.1	25	160,80
			2091.2	100	342,40
1-Methyl-1-propyl-piperidinium-bis-(trifluoromethylsulfonyl)-imide	PMPip BTA	≥99 %	2095.1	25	160,80
			2095.2	100	342,40
Triethylsulphonium-bis-(trifluoromethylsulphonyl)-imide	S222 BTA	≥99 %	2096.1	25	211,80
			2096.2	100	433,20

Further Informations and safety data see catalogue or online at www.carlroth.com

