



# Chemicals TOP Offers



## Density Determination

**-20%**

Sodium polytungstate (SPT) is perfect for preparation of heavy liquids. Carl ROTH offers an environmentally friendly alternative to using zinc chloride and mercury saline solutions or highly toxic halogenated hydrocarbons to conduct the sink or swim analyses required for density determination.

### Properties:

- Highly water soluble
- pH-neutral solution adjustable
- Maximum achievable density of the solution is 3.1 g/cm<sup>3</sup> at 25 °C

### Advantages:

- Non-toxic
- Non-flammable
- Odourless
- Low viscosity
- Easy to use
- Extremely easy cleaning of the sinking and floating material with water
- Environmentally friendly

### Sodium Polytungstate Hydrate

Purity	Pack.	Art. No.	Pack Qty.	€	€
≥99,9 % , p.a.	plastic	1K08.1	50 g	74,75	59,75
		1K08.2	250 g	256,95	205,50
		1K08.3	1 kg	880,45	704,30
≥99,9 %	plastic	8828.1	50 g	64,40	51,45
		8828.2	250 g	291,15	184,90
		8828.3	1 kg	805,20	644,10

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

### Heavy liquid, ready-to-use

**ready-to-use**

Product name	Purity	Pack.	Art. No.	Pack Qty.	€	€
Alkali polytungstate solution	3,00 g/cm <sup>3</sup> , low viscosity	plastic	1KYT.1	100 ml	269,40	210,70
			1KYT.2	500 ml	1.209,40	967,50
Sodium polytungstate solution	3,00 g/cm <sup>3</sup>	plastic	0741.1	100 ml	289,20	231,30
			0741.2	500 ml	1.101,90	881,50

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

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## Single and Multi-Element Standards for ICP-OES

**-20%****(Inductively Coupled Plasma – Mass spectrometry)**

The standard solutions are manufactured from high-purity starting material (usually  $\geq 99,999\%$ ) under clean room conditions. Acids (purified by means of sub-boiling distillation) and water of highest quality are used to manufacture the solutions.

The solutions are certified and can be traced to NIST standard reference solutions. Solutions are produced according to **ISO 17034** in an accredited environment. The solutions are tested in a laboratory accredited to **ISO/IEC 17025** and supplied with a detailed, batch-specific certificate of analysis.

The range encompasses different multi-element standards in various compositions for tuning, calibration and interference tests.

In multi-element solutions, the standard deviation of the respective element concentration is a maximum of 5% of the specified value.

**Selection of single-element standards**

Product name	Element	Purity	Matrix	Art. No.	Pack Qty.	€	€
Aluminium ICP Standard Solution	Aluminum (Al)	10 000 mg/l Al, in $\leq 5\%$ HNO <sub>3</sub>	$\leq 5\%$ HNO <sub>3</sub>	2488.3	30 ml	82,70	<b>66,10</b>
				2488.1	100 ml	199,75	<b>111,80</b>
				2488.2	500 ml	428,95	<b>343,10</b>
Calcium ICP Standard Solution	Calcium (Ca)	10 000 mg/l Ca, in 2 % HNO <sub>3</sub>	2 % HNO <sub>3</sub>	2503.1	100 ml	199,75	<b>111,80</b>
				2503.2	500 ml	310,70	<b>248,50</b>
Gold ICP Standard Solution	Gold (Au)	1 000 mg/l Au, in 2–5 % HCl	2–5 % HCl	2420.1	100 ml	295,45	<b>188,30</b>
				2420.2	250 ml	435,40	<b>348,30</b>
				2412.1	100 ml	81,60	<b>65,25</b>
Iron ICP Standard Solution	Iron (Fe)	1 000 mg/l Fe, in 2–4 % HNO <sub>3</sub>	2–4 % HNO <sub>3</sub>	2412.3	250 ml	118,25	<b>94,60</b>
				2412.2	500 ml	170,95	<b>136,70</b>
				2403.1	100 ml	81,60	<b>65,25</b>
Phosphorus ICP Standard Solution	Phosphorus (P)	1 000 mg/l P, in H <sub>2</sub> O	H <sub>2</sub> O	2451.1	100 ml	81,60	<b>65,25</b>
				2451.2	250 ml	134,40	<b>107,50</b>
Zinc ICP Standard Solution	Zinc (Zn)	1 000 mg/l Zn, in 2–3 % HNO <sub>3</sub>	2–3 % HNO <sub>3</sub>	2485.1	100 ml	81,60	<b>65,25</b>
				2485.3	250 ml	118,25	<b>94,60</b>
				2485.2	500 ml	170,95	<b>136,70</b>

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**Selection of multi-element standards**

Product name	Number of elements	Composition	Conc. info	Matrix	Art. No.	Pack Qty.	€	€
Multi-Element ICP Standard Solution IV	23	Ag, Al, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Sr, Ti, Zn	1 000 mg/l	2 % HNO <sub>3</sub>	2638.1	100 ml	456,90	<b>365,50</b>
Multi-Element ICP Standard Solution X	23	Ca (35000), Mg (15000), Na (8000), K (3000), B (100), Fe (100), Mo (100), Sr (100), As (50), Ba (50), Ni (50), V (50), Zn (50), Mn (30), Co (25), Pb (25), Be (20), Cd (20), Cr (20), Cu (20), Bi (10), Se (10), Ti (10)	concentration in µg/l	2 % HNO <sub>3</sub>	2642.1	100 ml	370,90	<b>296,70</b>
Multi-Element ICP Standard Solution XVI	21	As, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	100 mg/l	2 % HNO <sub>3</sub>	2645.1	100 ml	370,90	<b>296,70</b>
Multi-Element ICP Standard Solution	28	Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	1 mg/l	5 % HNO <sub>3</sub>	2649.1	100 ml	194,40	<b>107,50</b>
	28	Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	100 mg/l	5 % HNO <sub>3</sub>	2650.1	100 ml	499,70	<b>351,70</b>

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

- ▶ We are also happy to offer our ROTI®Star multi-element standard solutions as customised special designs in all standard container sizes.



- ▶ You will find a large selection of single and multi-element standards in our [webshop](#)



# Standards in Mineral Oil

# -20%

## Metallo-organic single element standards

### ROTI®Star

- Certified and traceable to NIST standard reference materials
- Manufactured in accordance with **ISO 17034** in an accredited environment
- Tested in a laboratory accredited to **ISO/IEC 17025**
- Detailed, batch-specific certificate of analysis is available online

#### Properties:

- Metallo-organic compounds in 75 cSt hydrocarbon oil
- Trace metal concentrations determined by ICP-OES
- Suitable for use with ASTM D4927, D4951, D5185, D5708, D6443, D6481, D6595 and other standard test methods for elemental analysis
- Many of these standards are sulfonate-based and thus contain high levels of sulfur
- Excellent for AAS, ICP, RDE, XRF and other elemental analysis techniques
- 12 months shelf life for unopened bottle



## Sulphur Standard Solutions in 20 cSt Hydrocarbon Oil

### ROTI®Star, Metallo-Organic Certified Reference Material

Suitable for ICP, RDE, XRF and other applications for elemental analysis.

Conc.	Art. No.	Pack Qty.	€	€
500 µg/g	391X.1	100 ml	370,90	296,70
1 000 µg/g	28A2.1	100 ml	252,65	202,10
20 000 µg/g	28A3.1	100 ml	263,40	210,70
50 000 µg/g	28A4.1	100 ml	267,70	214,10

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

### Metallo-organic blanks

Product name	Purity	Art. No.	Pack Qty.	€	€
Mineral oil Blank	75 cSt	25T6.1	500 ml	98,80	79,00
	20 cSt	25T7.1	500 ml	98,80	79,00

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

## Metallo-organic Multi-Element Standards in Hydrocarbon Oil

### in 75 cSt Hydrocarbon Oil, Metallo-Organic Certified Reference Material

Product name	Number of elements	Composition	Conc.info	Art. No.	Pack Qty.	€	€
Multi Element Standards CR-01	5	Ba, Ca, Mg, P, Zn	5000 µg/g	28A5.1	100 g	1.499,65	1.199,70
Multi Element Standards CR-02	22	Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Si, Sn, Ti, V, Zn	10 µg/g	28A7.1	100 g	392,40	313,90
Multi Element Standards CR-03	22	Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Si, Sn, Ti, V, Zn	30 µg/g	28A6.1	100 g	392,40	313,90
Multi Element Standards CR-04	22	Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Si, Sn, Ti, V, Zn	100 µg/g	28A8.1	100 g	446,15	356,90
Multi Element Standards CR-05	22	Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Si, Sn, Ti, V, Zn	900 µg/g	28A9.1	100 g	1.424,40	1.139,50

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

## Metallo-organic Single Element Standards

### in 75 cSt Hydrocarbon Oil, Metallo-Organic Certified Reference Material

Product name	Purity	Number of elements	Art. No.	Pack Qty.	€	€
Cobalt Standard Solution in 75 cSt Hydrocarbon Oil	1 000 µg/g Co, Metallo-Organic Calibration Standard	1	1PNX.1	50 g	134,40	107,50
Lead Standard Solution in 75 cSt Hydrocarbon Oil	1 000 µg/g Pb, Metallo-Organic Calibration Standard	1	1PLH.1	50 g	134,40	107,50
Magnesium Standard Solution in 75 cSt Hydrocarbon Oil	1 000 µg/g Mg, Metallo-Organic Calibration Standard	1	1PNA.1	50 g	134,40	107,50
Silicium Standard Solution in 75 cSt Hydrocarbon Oil	1 000 µg/g Si, Metallo-Organic Calibration Standard	1	1PN6.1	50 g	134,40	107,50
Sodium Standard Solution in 75 cSt Hydrocarbon Oil	1 000 µg/g Na, Metallo-Organic Calibration Standard	1	1PP2.1	50 g	138,70	110,90
Sulphur Standard Solution in 75 cSt Hydrocarbon Oil	1 000 µg/g S, Metallo-Organic Calibration Standard	1	1PNT.1	50 g	134,40	107,50
Titanium Standard Solution in 75 cSt Hydrocarbon Oil	1 000 µg/g Ti, Metallo-Organic Calibration Standard	1	1PN5.1	50 g	134,40	107,50

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

► You can find further individual element standards in 75 cSt mineral oil in our [webshop](#)

# Standards for Ion Chromatography

**-15%**

Optimise your chemical analysis with Carl ROTH's high-quality standards for ion chromatography. Whether anion, cation or multi-element standards – our reference solutions guarantee the highest purity, stability and reproducible results.

Each standard solution is made of high-purity starting materials, and its content is determined gravimetrically and by ion chromatography. They come with certificates of analysis and an ion chromatogram.



## Anion Standards

Product name	Purity	Matrix	Art. No.	Pack Qty.	€	€
Chloride IC Standard Solution	1 000 mg/l Cl <sup>-</sup>	H <sub>2</sub> O	2656.1	100 ml	69,35	58,90
			2656.2	500 ml	139,75	118,75
Fluoride IC Standard Solution	1 000 mg/l F <sup>-</sup>	H <sub>2</sub> O	2659.1	100 ml	69,35	58,90
			2659.2	500 ml	139,75	118,75
Nitrate IC Standard Solution	1 000 mg/l NO <sub>3</sub> <sup>-</sup>	H <sub>2</sub> O	2661.1	100 ml	69,35	58,90
			2661.2	500 ml	139,75	118,75
Nitrite IC Standard Solution	1 000 mg/l NO <sub>2</sub> <sup>-</sup>	H <sub>2</sub> O	2664.1	100 ml	69,35	58,90
			2664.2	500 ml	139,75	118,75
Phosphate IC Standard Solution	1 000 mg/l PO <sub>4</sub> <sup>3-</sup>	H <sub>2</sub> O	2665.1	100 ml	69,35	58,90
			2665.2	500 ml	139,75	118,75
Sulphate IC Standard Solution	1 000 mg/l SO <sub>4</sub> <sup>2-</sup>	H <sub>2</sub> O	2666.1	100 ml	69,35	58,90
			2666.2	500 ml	139,75	118,75

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

## Cation Standards

Product name	Purity	Matrix	Art. No.	Pack Qty.	€	€
Ammonium IC Standard Solution	1 000 mg/l NH <sub>4</sub> <sup>+</sup>	H <sub>2</sub> O	2654.1	100 ml	69,35	58,90
			2654.2	500 ml	145,15	123,35
Calcium IC Standard Solution	1 000 mg/l Ca <sup>2+</sup>	H <sub>2</sub> O	1986.1	100 ml	69,35	58,90
			1986.2	500 ml	139,75	118,75
Magnesium IC Standard Solution	1 000 mg/l Mg <sup>2+</sup>	H <sub>2</sub> O	1987.1	100 ml	69,35	58,90
			1987.2	500 ml	139,75	118,75
Potassium IC Standard Solution	1 000 mg/l K <sup>+</sup>	H <sub>2</sub> O	1985.1	100 ml	69,35	58,90
			1985.2	500 ml	139,75	118,75
Sodium IC Standard Solution	1 000 mg/l Na <sup>+</sup>	H <sub>2</sub> O	1984.1	100 ml	69,35	58,90
			1984.2	500 ml	139,75	118,75

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

## Multi Element Standards

Product name	Purity	Art. No.	Pack Qty.	€	€
Anion Multi-Element IC Standard Solution I	3 anions (Cl <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , NO <sub>3</sub> <sup>-</sup> ) in H <sub>2</sub> O, 1000 mg/l	2026.1	100 ml	241,90	205,55
		2026.2	500 ml	482,70	410,25
Anion Multi-Element IC Standard Solution	6 anions (F <sup>-</sup> , Cl <sup>-</sup> , Br <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> ) in H <sub>2</sub> O, 10 mg/l	2030.1	100 ml	177,40	150,75
		2030.2	500 ml	385,95	328,00
	7 anions (F <sup>-</sup> , Cl <sup>-</sup> , Br <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> ) in H <sub>2</sub> O, concentration in mg/l	2668.1	100 ml	145,15	123,35
		2668.2	500 ml	289,20	245,80
Cation Multi-Element IC Standard Solution	6 cations (NH <sub>4</sub> <sup>+</sup> , Ca <sup>2+</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , Li <sup>+</sup> ) in H <sub>2</sub> O, 100 mg/l	375A.1	100 ml	246,20	209,25
	9 cations (NH <sub>4</sub> <sup>+</sup> , Ca <sup>2+</sup> , K <sup>+</sup> , Li <sup>+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , Ba <sup>2+</sup> , Sr <sup>2+</sup> , Mn <sup>2+</sup> ) in 0,1 % HNO <sub>3</sub> , 100 mg/l	1YKN.1	100 ml	268,75	228,40

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

- We are also pleased to offer our ROTI®Star multi-element standard solutions as customised special designs in all standard container sizes.



- You will find a large selection of single and multi-anion standards in our [webshop](#)



# Standards for your Calibration

**-15%**

## Total organic/inorganic Carbon

The TOC (total organic carbon) and TIC (total inorganic carbon) standards are produced from high-purity starting materials. The sum parameter TOC is used in environmental analysis and is a measure of the content of organic carbon in air, soil or water samples.

Inorganic carbon includes dissolved carbonates, hydrogen carbonates, carbonic acid and carbon dioxide and is part of the total carbon in a sample.

These reference standards are manufactured and tested under the conditions of ISO/IEC 17025 and ISO 17034.

The batch-specific certificates of analysis are available online.

- for calibration and validation
- for detection limit and linearity studies
- for the production of working standards



## Standards for TOC and TIC ROTI®Calipure

Product name	Purity	Art. No.	Pack Qty.	€	€
TOC Standard	5 mg/l as potassium hydrogen phthalate	216T.1	100 ml	118,25	100,50
		216T.2	500 ml	170,95	145,25
	10 mg/l as potassium hydrogen phthalate	216X.1	100 ml	118,25	100,50
		216X.2	500 ml	170,95	145,25
	20 mg/l as potassium hydrogen phthalate	3N6X.1	100 ml	203,20	172,70
		3N6X.2	500 ml	289,20	245,80
	30 mg/l as potassium hydrogen phthalate	3N6Y.1	100 ml	203,20	172,70
		3N6Y.2	500 ml	289,20	245,80
	50 mg/l as potassium hydrogen phthalate	216Y.1	100 ml	118,25	100,50
		216Y.2	500 ml	170,95	145,25
	100 mg/l as potassium hydrogen phthalate	217A.1	100 ml	118,25	100,50
		217A.2	500 ml	170,95	145,25
	200 mg/l as potassium hydrogen phthalate	217C.1	100 ml	118,25	100,50
		217C.2	500 ml	170,95	145,25
	500 mg/l as potassium hydrogen phthalate	217E.1	100 ml	118,25	100,50
		217E.2	500 ml	170,95	145,25
	250 mg/l as potassium hydrogen phthalate	3N70.1	100 ml	203,20	172,70
		3N70.2	500 ml	289,20	245,80
	400 mg/l as potassium hydrogen phthalate	3N71.1	100 ml	203,20	172,70
		3N71.2	500 ml	289,20	245,80
750 mg/l as potassium hydrogen phthalate	3N72.1	100 ml	203,20	172,70	
	3N72.2	500 ml	317,15	269,55	
1000 mg/l as potassium hydrogen phthalate	217H.1	100 ml	118,25	100,50	
	217H.2	500 ml	170,95	145,25	
1500 mg/l as potassium hydrogen phthalate	3N73.1	100 ml	267,70	227,50	
	3N73.2	500 ml	413,90	351,75	
2000 mg/l as potassium hydrogen phthalate	217K.1	100 ml	118,25	100,50	
	217K.2	500 ml	170,95	145,25	
TIC Standard	10 mg/l as sodium carbonate	3N6K.1	100 ml	203,20	172,70
		3N6K.2	500 ml	289,20	245,80
	20 mg/l as sodium carbonate	3N6L.1	100 ml	203,20	172,70
		3N6L.2	500 ml	289,20	245,80
	50 mg/l as sodium carbonate	3N6N.1	100 ml	203,20	172,70
		3N6N.2	500 ml	289,20	245,80
	100 mg/l as sodium carbonate	217L.1	100 ml	166,65	141,60
		217L.2	500 ml	235,45	200,10
	150 mg/l as sodium carbonate	3N6P.1	100 ml	203,20	172,70
		3N6P.2	500 ml	289,20	245,80
	750 mg/l as sodium carbonate	3N6T.1	100 ml	203,20	172,70
		3N6T.2	500 ml	289,20	245,80
	1000 mg/l as sodium carbonate	217N.1	100 ml	224,70	190,95
		217N.2	500 ml	289,20	245,80
10000 mg/l as sodium carbonate	217P.1	100 ml	224,70	190,95	
	217P.2	500 ml	289,20	245,80	

For safety information and additional data see [www.carloth.com](http://www.carloth.com)

# PFAS Analysis



## Analysing PFAS – with the reference standards from Carl ROTH

*Finding them is one thing, identifying them is another!*

They are everywhere. Not only in many materials and everyday objects – but also in the media: perfluorinated and polyfluorinated alkyl substances, or PFAS for short, are currently the focus of media coverage. An important aspect in understanding the impact of these long-lasting substances on our environment is to identify the PFAS found in the analysed samples beyond doubt in order to draw conclusions about their industrial origin. Carl ROTH would like to do its part by providing your analytical laboratory with a range of 20 high-quality reference standards of common perfluorinated and polyfluorinated alkyl substances.

### Per- and Polyfluorinated Alkyl Compounds ROTI®Star

**-15%**

Product name	Molecular formula	CAS No.	Art. No.	Pack Qty.	€	€
Perfluoro- <i>n</i> -butanesulfonic acid	C <sub>4</sub> HF <sub>9</sub> O <sub>2</sub> S	375-73-5	<b>37LN.1</b>	100 mg	349,40	<b>296,95</b>
Perfluoro- <i>n</i> -hexanesulfonic acid	C <sub>6</sub> HF <sub>13</sub> O <sub>2</sub> S	355-46-4	<b>37LT.1</b>	50 mg	590,20	<b>501,65</b>
Perfluoro- <i>n</i> -pentanoic acid	C <sub>5</sub> HF <sub>9</sub> O <sub>2</sub>	2706-90-3	<b>37L7.1</b>	100 mg	396,70	<b>337,15</b>
Perfluorooctane sulfonic acid	C <sub>8</sub> H <sub>2</sub> F <sub>17</sub> O <sub>2</sub> S	1763-23-1	<b>20TA.1</b>	100 mg	274,15	<b>233,00</b>
Perfluorooctanic acid sodium salt	C <sub>8</sub> F <sub>16</sub> NaO <sub>2</sub>	335-95-5	<b>20P2.1</b>	100 mg	434,40	<b>114,20</b>
(Perfluorooctyl)ethyl Acrylate	C <sub>10</sub> H <sub>2</sub> F <sub>18</sub> O <sub>2</sub>	27905-45-9	<b>20P3.1</b>	100 mg	256,95	<b>218,35</b>
Perfluorotridecanoic acid	C <sub>13</sub> HF <sub>28</sub> O <sub>2</sub>	72629-94-8	<b>20PH.1</b>	100 mg	170,95	<b>145,25</b>

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

► Further PFAS reference standards for your analysis can be found in our [webshop](#)

### PFAS-20 Standard Solution ready-to-use ROTI®Star

Analysis of the PFAS-20 according to Directive (EU) 2020/2184 and the German Drinking Water Ordinance 2023.

**-15%**

**Danger H225-H301+H311+H331-H370**

Composition	Concentration	Matrix
PFBA [CAS:375-22-4] PFPeA [CAS:2706-90-3] PFHxA [CAS:307-24-4] PFHpA [CAS:375-85-9] PFOA [CAS:335-67-1] PFNA [CAS:375-95-1] PFDA [CAS:335-76-2] PFUnDA [CAS:2058-94-8] PFDoDA [CAS:307-55-1] PFBS [CAS:375-73-5] PFPeS [CAS:2706-91-4] PFHxS [CAS:355-46-4] PFHpS [CAS:375-92-8] PFOS [CAS:1763-23-1] PFNS [CAS:68259-12-1/474511-07-4] PFDS [CAS:335-77-3] PFUnDS [CAS:749786-16-1] PFDoDS [CAS:79780-39-5] PFTrDS [CAS:791563-89-8]	10 mg/l of each component	MeOH / H <sub>2</sub> O

Art. No.	Pack Qty.	Pack.	€	€
<b>37H7.1</b>	1 ml	glass ampoule	1.557,70	<b>1.324,00</b>





# PFAS analysis: from sampling to measurement

## Solvents for PFAS analysis

### ROTISOLV® Ultra LC-MS

**-15%**

For the analysis of PFAS, Carl ROTH offers you the right range of solvents that are practically free of PFAS.

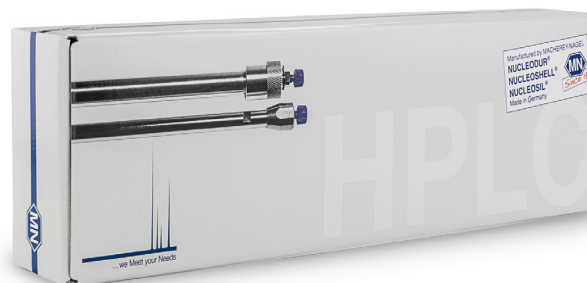
#### Properties:

- Highest purity (≥99.98 %)
- PFAS content ≤0.5 ppb
- UV absorption, fluorescence and gradients extensively tested
- Metallic contamination max. 30 ppb
- Evaporation residue of max. 1 ppm
- Tested for LC-MS suitability
- Filtered through 0.1 µm membrane
- Filled under inert gas

## PFAS Solvents

### ROTISOLV® Ultra LC-MS, for PFAS Analysis

Product name	Brand/Purity	Pack.	Art. No.	Pack Qty.	€	€
Acetonitrile	ROTISOLV® ≥99,99 %	glass	279A.1	1 l	235,45	<b>200,10</b>
Methanol	ROTISOLV® ≥99,98 %	glass	279C.1	1 l	147,85	<b>125,60</b>
Water	ROTISOLV® Ultra	glass	279E.1	1 l	153,20	<b>130,15</b>



## HPLC column NUCLEODUR® PFAS

MACHEREY-NAGEL.

Hydrophobic reversed phase with distinct polar selectivity for special PFAS analysis. Suitability for PFAS analysis is assured through qualified batch analysis.

**-5%**

Particle size (µm)	Pore size (Å)	L x Ø internal (column) (mm)	Art. No.	Pack Qty.	€	€
5	110	50 x 2	360H.1	1 unit(s)	677,25	<b>643,35</b>
3	110	50 x 2	360C.1	1 unit(s)	833,15	<b>791,45</b>
3	110	100 x 2	360E.1	1 unit(s)	946,00	<b>898,70</b>

# Optimised PFAS Sample Preparation: QuEChERS and SPE

## CHROMABOND® special clean-up-mix for PFAS analysis

**-5%**

For analysis of PFAS in food (e.g. milk, curd cheese, quark, bread, brussel sprouts, spinach, eggs).

Product name	Art. No.	Pack Qty.	€	€
QuEChERS Clean-up Mix L	219L.1	50 unit(s)	236,50	<b>224,65</b>
QuEChERS Clean-up Mix LVII	3H8A.1	50 unit(s)	112,90	<b>107,20</b>



## QuEChERS Extraction Mix XII

### CHROMABOND® unbuffered

MACHEREY-NAGEL.

For pesticide residue analysis in food.

For analysis of mycotoxins in food and feed (e.g. Wheat flour, rye flour) and analysis of PFAS in food (e.g. milk, quark, bread, brussels sprouts, spinach, egg).

WGK 1

**-5%**

Version	Pack.	Art. No.	Pack Qty.	€	€
15 mL c. tubes, 1.25 g	50 x 15 ml tubes	219E.1	50 unit(s)	176,30	<b>167,45</b>
15 mL c. tubes, 5 g	50 x 15 ml tubes	219E.2	50 unit(s)	176,30	<b>167,45</b>
50 mL c. tubes, 5 g	50 x 50 ml tubes	219E.3	50 unit(s)	176,30	<b>167,45</b>

## SPE polypropylene column CHROMABOND® PFAS

MACHEREY-NAGEL.

### Special phase for PFAS analysis.

For SPE enrichment of PFAS from water, textiles and sediments (contaminated soils). Polymeric combination phase with weak anion exchanger, highly porous, spherical particles.

**-5%**

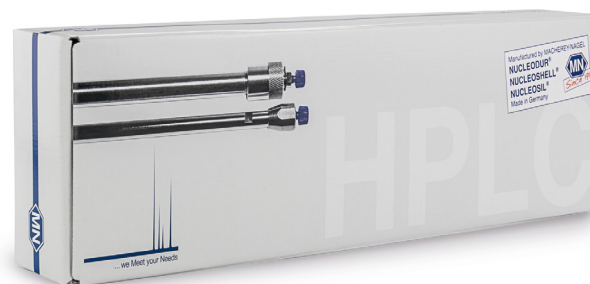
Column volume (ml)	Filling quantity (mg)	Pack.	Art. No.	Pack Qty.	€	€
6	300	6 x 5 units	1P9H.1	30 unit(s)	307,45	<b>292,05</b>

► Visit [www.carlroth.com](http://www.carlroth.com) and discover numerous other QuEChERS and SPE products for your analysis.

## HPLC Columns

**-5%**

HPLC is a high-resolution technique for the separation and quantification of a range of small molecules, biomolecules and peptides. It is one of the most widely used techniques in instrumental analysis, but can also be used for the preparative processing of compounds



Phase	Pore size	Column length	Column inner diameter	Column volume	Separation principle	Art. No.	Pack Qty.	€	€
C <sub>18</sub> Gravity	110 Å	150 mm	2 mm	0.45 ml	Reversed phase (RP)	33TN.1	1 unit(s)	865,40	822,10
		250 mm	4.6 mm	4.15 ml		KK91.1	1 unit(s)	843,90	801,65
C <sub>18</sub> Gravity SB	110 Å	150 mm	2 mm	0.45 ml	Reversed phase (RP)	33XE.1	1 unit(s)	865,40	822,10
		250 mm	4.6 mm	4.15 ml		340Y.1	1 unit(s)	843,90	801,65
RP 18plus	90 Å	150 mm	2 mm	2.5 ml	Reversed phase (RP)	364A.1	1 unit(s)	989,00	939,55
		250 mm	4.6 mm	4.15 ml		365L.1	1 unit(s)	1.085,75	1.031,45
PolarTec	110 Å	30 mm	2 mm	0.1 ml	Reversed phase (RP)	34E9.1	1 unit(s)	763,25	725,05
		250 mm	4.6 mm	4.15 ml		34L1.1	1 unit(s)	843,90	801,65
Bluebird RP 18	90 Å	150 mm	4.6 mm	2.5 ml	Reversed phase (RP)	367H.1	1 unit(s)	989,00	939,55
Phenyl-Hexyl	110 Å	150 mm	2 mm	0.45 ml	Reversed phase (RP)	34LL.1	1 unit(s)	865,40	822,10
		250 mm	4.6 mm	4.15 ml		34PL.1	1 unit(s)	843,90	801,65
Biphenyl	90 Å	150 mm	4.6 mm	2.5 ml	Reversed phase (RP)	368K.1	1 unit(s)	989,00	939,55
Sphinx RP	110 Å	125 mm	3 mm	0.87 ml	Reversed phase (RP)	355A.1	1 unit(s)	876,15	832,30
		150 mm	4.6 mm	2.5 ml		357E.1	1 unit(s)	774,00	735,30
		250 mm	4.6 mm	4.15 ml		357N.1	1 unit(s)	843,90	801,65
C <sub>18</sub> HTec	110 Å	30 mm	4 mm	0.38 ml	Reversed phase (RP)	357X.1	1 unit(s)	763,25	725,05
		250 mm	4.6 mm	4.15 ml		35C8.1	1 unit(s)	843,90	801,65
C <sub>4</sub> ec	300 Å	250 mm	3 mm	1.75 ml	Reversed phase (RP)	35P3.1	1 unit(s)	516,65	485,05
		125 mm	3 mm	0.87 ml		35T6.1	1 unit(s)	876,15	832,30
HILIC	110 Å	150 mm	4.6 mm	2.5 ml	Hydrophilic Interaction Chromatography (HILIC)	35XC.1	1 unit(s)	774,00	735,30
		250 mm	4.6 mm	4.15 ml		35XL.1	1 unit(s)	843,90	801,65
		250 mm	4.6 mm	4.15 ml		35XL.1	1 unit(s)	843,90	801,65
CN	110 Å	250 mm	4.6 mm	4.15 ml	Multi-mode (NP and RP), Normal phase (NP)	35Y0.1	1 unit(s)	528,90	502,45
NH <sub>2</sub>	110 Å	250 mm	4.6 mm	4.15 ml	Multi-mode (NP and RP), Normal phase (NP)	1NEN.1	1 unit(s)	528,90	502,45
C <sub>18</sub> PAH	110 Å	100 mm	4 mm	1.25 ml	Reversed phase (RP)	360T.1	1 unit(s)	913,75	868,05
		125 mm	3 mm	0.87 ml		360X.1	1 unit(s)	913,75	868,05
		150 mm	4 mm	1.9 ml		361C.1	1 unit(s)	913,75	868,05

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

► You can find many more dimensions and HPLC columns in our [webshop](#)

## Product recommendation: NUCLEODUR® HPLC columns „Sphinx RP“, „HILIC“ & „PAH“

### The ideal phase for overall sophisticated analytical separations

#### HPLC column NUCLEODUR® „Sphinx RP“

Bifunctional RP phase with a balanced ratio of propylphenyl and C18 ligands. This combination enhances selectivity through additional π-π interactions and provides flexibility for method development and complex separations.

**Recommended application(s):** Quinolone antibiotics, substituted aromatics, sulfonamides, xanthines.

#### HPLC column NUCLEODUR® „HILIC“

For the separation of highly polar compounds. The zwitterionic HILIC phase (ammonium-sulfonic acid modification) enables efficient normal-phase chromatography under RP conditions.

**Recommended application(s):** Amino acids, highly polar analytes, hydrophilic compounds, nucleosides, oligonucleotides, organic polar acids and bases, peptides, polar natural products, water-soluble vitamins.

#### HPLC column NUCLEODUR® C18 „PAH“

Special octadecyl (C18, ODS) modification for precise HPLC analysis of polycyclic aromatic hydrocarbons (PAHs) according to EPA methods, ensuring maximum selectivity and reproducibility.

**Recommended application(s):** PAHs according to EPA.



**-20%**

## Solvents for HPLC and LC-MS Analysis

Increase the efficiency and precision of your HPLC and LC-MS analyses with Carl ROTH's high-purity solvents. Ideal for chemical and environmental analytical applications.

### Advantages:

- High purity & stability – for reproducible results
- Minimal background noise – optimal sensitivity
- Suitable for sensitive detectors – protects your instruments
- Versatile use – ideal for HPLC, LC-MS, and environmental analyses

Product name	Purity	Art. No.	Pack Qty.	€	€
Acetonitrile	≥99,98 %, Ultra LC-MS	HN40.1	1 l	127,95	102,30
		HN40.2	2.5 l	246,20	196,90
	≥99,95 %, LC-MS Grade	AE70.1	1 l	117,20	93,70
		AE70.2	2.5 l	192,45	153,90
	≥99,9 %, HPLC Gradient Grade	8825.1	1 l	75,15	60,05
		8825.2	2.5 l	149,45	119,50
≥99,9 %, HPLC Gradient	HN44.1	1 l	64,40	51,45	
	HN44.2	2.5 l	131,70	105,35	
Methanol	≥99,98 %, Ultra LC-MS	HN41.1	1 l	50,00	39,95
		HN41.2	2.5 l	112,90	90,30
	≥99,95 %, LC-MS Grade	AE71.1	1 l	44,65	35,65
		AE71.2	2.5 l	95,60	76,40
Water	Ultra LC-MS	HN43.1	1 l	57,95	46,30
		HN43.2	2.5 l	117,20	93,70
		AE72.1	1 l	43,55	34,80
	LC-MS Grade	AE72.3	2.5 l	105,25	84,15
		AE72.2	5 l	206,95	165,55
		A511.1	1 l	26,80	21,35
	HPLC Gradient Grade	A511.2	2.5 l	50,00	39,95
		A511.3	5 l	90,85	72,65
		A511.7	20 l	317,15	253,70
HPLC	1C5K.1	1 l	19,90	15,90	
	1C5K.2	2.5 l	33,25	26,55	

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

► Further solvents for HPLC, LC-MS and Ultra-LC-MS can be found in our [webshop](#)

# Solvent for Analysis **-25%**

**Highest purity and extensive trace analysis for excellent results!**

**We offer:**

ROTIPURAN® p.a. solvents with superior analytical reliability in terms of quality and batch consistency. The so branded solvents are being constantly 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.



Product name	Purity	Pack.	Art. No.	Pack Qty.	€	€
Acetic acid ethyl ester	≥99,5 %, p.a., ACS, ISO	glass	6784.1	1 l	47,85	35,85
		plastic	6784.3	1 l	44,65	33,40
		glass	6784.2	2.5 l	87,65	65,65
		plastic	6784.4	2.5 l	83,35	62,45
Acetone	≥99,8 %, p.a., ACS, ISO	glass	9372.1	1 l	38,20	28,60
		plastic	9372.4	1 l	34,95	26,15
		glass	9372.2	2.5 l	80,55	60,35
		plastic	9372.5	2.5 l	77,30	57,90
		plastic	9372.6	5 l	127,95	95,90
		PE/steel	9372.7	10 l	220,40	165,25
Cyclohexane	≥99,5 %, p.a., ACS, ISO	tinplate	9372.3	25 l	403,15	302,30
		glass	6886.1	1 l	88,05	66,00
		glass	6886.2	2.5 l	181,70	136,25
		aluminium	6886.3	5 l	310,70	233,00
Dichloromethane	≥99,5 %, p.a., ACS, ISO, stabilised with amylene	tinplate	6886.4	10 l	521,40	391,00
		tinplate	6886.5	25 l	1.041,70	781,25
		glass	6053.3	100 ml	21,40	16,00
		glass	6053.1	1 l	58,60	43,90
Diethyl ether	≥99,5 %, p.a., stabilised with BHT	glass	6053.2	2.5 l	107,40	80,50
		tinplate	6053.4	10 l	278,45	208,80
		tinplate	6053.5	25 l	542,90	407,15
Ethylene glycol	≥99,5 %, p.a.	glass	3942.1	1 l	64,40	48,25
		aluminium	3942.6	2.5 l	117,20	87,85
		tinplate	3942.5	25 l	661,15	495,80
n-Hexane	≥99 %, p.a.	plastic	6881.1	1 l	58,60	43,90
		plastic	6881.2	2.5 l	117,20	87,85
		plastic	6881.4	5 l	181,70	136,25
		plastic	6881.3	10 l	349,40	262,00
Methanol	≥99,9 %, p.a., ACS, ISO	plastic	6881.5	25 l	633,20	474,85
		glass	4723.1	1 l	105,25	78,90
		glass	4723.2	2.5 l	213,95	160,40
		aluminium	4723.3	5 l	396,70	297,50
Trichloromethane/Chloroform	≥99 %, p.a., stabilised with ethanol	tinplate	4723.5	10 l	772,95	579,65
		tinplate	4723.4	25 l	1.601,75	1.201,30
		glass	4627.1	1 l	35,40	26,50
		plastic	4627.4	1 l	34,30	25,65
Water	p.a., ACS, ISO 3696 Type 2	glass	4627.2	2.5 l	64,00	47,95
		plastic	4627.5	2.5 l	61,20	45,85
		plastic	4627.6	5 l	112,90	84,65
		tinplate	4627.3	25 l	246,20	184,60
		glass	3313.4	100 ml	26,80	20,05
Water	p.a., ACS, ISO 3696 Type 2	glass	3313.1	1 l	77,30	57,90
		tinplate	3313.2	2.5 l	158,60	118,90
		tinplate	3313.5	25 l	1.213,70	910,25
Water	p.a., ACS, ISO 3696 Type 2	plastic	T172.1	1 l	14,55	10,85
		plastic	T172.2	2.5 l	36,00	22,45
		plastic	T172.3	5 l	46,80	35,05
Water	p.a., ACS, ISO 3696 Type 2	plastic	T172.5	30 l	188,15	141,05

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)



# Karl Fischer

## -20%

### Single-component Reagents

Single-component reagents contain all the substances required for the Karl Fischer reaction in a single solution. They are easy to use and provide for a high level of flexibility when choosing a solvent for the sample type. The high reactivity of the components means that the titre for single-component reagents must always be determined before titration is carried out. Reactions with standard reagents containing methanol are not possible for samples that contain aldehydes or ketones, as the methanol will react with them to produce extra water in a secondary reaction. Carlo ROTH offers methanol-free reagents that are suitable for substances containing aldehydes and ketones.

Product name	Purity	General application	Art. No.	Pack Qty.	€	€
Karl Fischer ROTI®Hydroquant methanol D	for KF titration, dry	Solvent component. For use with item number T194, T190, 1T13 or 22L4.	T193.1	1 l	43,55	34,80
			T193.2	2.5 l	73,65	58,90
Karl Fischer ROTI®Hydroquant Working Medium K	for KF titration, for aldehydes and ketones	Solvent component. For use with item number 5211.	5215.1	1 l	97,75	78,15
Karl Fischer ROTI®Hydroquant C5 K	5 mg H <sub>2</sub> O/ml, for KF titration, for aldehydes and ketones	Single-component reagent. For use with item number 5215 ou 22L6.	5211.1	1 l	241,90	193,50
Karl Fischer ROTI®Hydroquant C1	1 mg H <sub>2</sub> O/ml, pyridine-free	Single-component reagent. For use with item number T193, 1PPH ou 22L5.	22L4.1	500 ml	170,95	136,70
Karl Fischer ROTI®Hydroquant C2	2 mg H <sub>2</sub> O/ml, pyridine-free	Single-component reagent. For use with item number T193, 1PPH ou 22L5.	T194.1	1 l	188,15	150,50
Karl Fischer ROTI®Hydroquant C5	5 mg H <sub>2</sub> O/ml, pyridine-free	Single-component reagent. For use with item number T193, 1PPH ou 22L5.	T190.1	1 l	206,95	165,55
Karl Fischer ROTI®Hydroquant C5 plus	5 mg H <sub>2</sub> O/ml, pyridine-free	Single-component reagent. For use with item number T193, 1PPH ou 22L5.	1T13.1	1 l	170,95	136,70
Karl Fischer ROTI®Hydroquant CS E	for KF titration, ethanol-based	Solvent component, ethanol-based. For use with item number T194, T190 or 22L4.	22L5.1	1 l	155,90	124,70
Karl Fischer ROTI®Hydroquant CS KE	for KF titration, ethanol-based, for aldehydes and ketones	Solvent component. For use with item number 5211.	22L6.1	500 ml	106,45	85,10
Karl Fischer ROTI®Hydroquant Methanol quick	for KF titration	Solvent component for accelerated KF reaction. For use with item number T194, T190, 1T13 or 22L4.	1PPH.1	1 l	55,80	44,60
Karl Fischer ROTI®Hydroquant Fat Solver CM	for KF titration	Solvent component for non-polar substances like fats and oils, contains chloroform and methanol. For use with article number T194, T190, 1T13 or 22L4.	22L7.1	1 l	155,90	124,70
Karl Fischer ROTI®Hydroquant Fat Solver crude oil	for KF titration	Solvent component for non-polar substances like raw oil, contains chloroform, xylene and methanol. For use with ROTI®Hydroquant C or T.	22LC.1	1 l	155,90	124,70

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

## -20%



### Two-components Reagents

In two-component systems, the substances crucial for the reaction are separated, with some in the solvent component and some in the titration component. Separating the substances gives the system a longer shelf life and means that the titre needs to be determined less frequently.

Product name	Purity	General application	Art. No.	Pack Qty.	€	€
Karl Fischer ROTI®Hydroquant S	for KF titration	Solvent component. For use with item number X947 or T191.	T192.1	1 l	74,75	59,75
Karl Fischer ROTI®Hydroquant S CM	for KF titration	Solvent component. For use with item number X947 or T191.	5218.1	1 l	57,55	46,00
Karl Fischer ROTI®Hydroquant S Oil	for KF titration	Solvent component for non-polar substances like fats and oils. For use with item number X947 or T191.	20TK.1	1 l	103,75	82,95
Karl Fischer ROTI®Hydroquant T2	2 mg H <sub>2</sub> O/ml, pyridine-free	Titrant component. Two-components reagent. For use with item number T192, 5218 or 20TK.	X947.1	1 l	79,45	63,50
Karl Fischer ROTI®Hydroquant T5	5 mg H <sub>2</sub> O/ml, pyridine-free	Titrant component. Two-components reagent. For use with item number T192, 5218 or 20TK.	T191.1	1 l	89,15	71,25
Karl Fischer ROTI®Hydroquant T2 E	2 mg H <sub>2</sub> O/ml, pyridine-free, ethanol-based	Titrant component. Two-components reagent, ethanol-based. For use with item number 22LA.	22L8.1	1 l	155,90	124,70
Karl Fischer ROTI®Hydroquant T5 E	5 mg H <sub>2</sub> O/ml, pyridine-free, ethanol-based	Titrant component. Two-components reagent, ethanol-based. For use with item number 22LA.	22L9.1	1 l	267,70	214,10
Karl Fischer ROTI®Hydroquant S E	for KF titration, ethanol-based	Solvent component. For use with item number 22L8 or 22L9.	22LA.1	1 l	155,90	124,70

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)



# Acids, Alkalis and Water in Supra Quality – Highest Purity for Precise Analysis

**-20%**

## ROTIPURAN® Supra

The high-purity ROTIPURAN® Supra line offers optimal conditions for sample preparation in trace analysis. It ensures precise results, minimal contamination, and reliable analyses across a wide range of applications.

- High-purity line for sample preparation in trace analysis (ICP-OES, AAS, IC, etc.)
- ppb quality: more than 60 elements specified, content < 1 ppb for maximum accuracy
- Certificates of analysis available online for transparent quality
- Excellent dissolving power, low background signal levels, and consistent batch quality
- Ideal for sensitive analyses in environmental, food, and pharmaceutical research



## ROTIPURAN® Supra products at a glance

ppb Quality

Product name	Brand/Purity	Thread	Pack.	Art. No.	Pack Qty.	€	€
Acetic acid	ROTIPURAN®Supra 100 %	GL 45	HDPE	HN55.1	500 ml	112,90	90,30
				HN55.3	1 l	170,95	136,70
		38–430	HN55.4	2.5 l	220,40	176,30	
Ammonia solution	ROTIPURAN®Supra 20 %	38–430	HDPE	HN55.5	4 l	338,65	270,90
				HN56.1	500 ml	97,75	78,15
Hydrochloric acid	ROTIPURAN®Supra 35 %	GL 45	HDPE	HN56.3	4 l	532,15	425,70
				HN53.1	500 ml	105,25	84,15
	38–430	HN53.2	1 l	161,25	129,00		
		HN53.3	2.5 l	180,10	144,05		
Hydrofluoric acid	ROTIPURAN®Supra 30 %	GL 45	HDPE	HN53.4	4 l	271,45	217,15
				NE57.2	1 l	136,00	108,75
Nitric acid	ROTIPURAN®Supra 48 %	38–430	LDPE	NE57.3	2.5 l	188,15	150,50
				HN54.1	500 ml	198,90	159,10
Perchloric acid	ROTIPURAN®Supra 69 %	GL 45	HDPE	HN50.1	500 ml	107,40	85,85
				HN50.2	1 l	165,05	132,00
				HN50.3	2.5 l	204,25	163,40
Sulphuric acid	ROTIPURAN®Supra 65 %	GL 45	HDPE	1YLN.1	1 l	155,90	124,70
				1YLN.2	2.5 l	188,15	150,50
Water	ROTIPURAN®Supra 70 %	GL 45	HDPE	HN51.1	500 ml	231,15	184,90
				HN51.3	1 l	370,90	296,70
				HN51.4	2.5 l	557,95	446,30
Water	ROTIPURAN®Supra 95 %	GL 45	HDPE	HN52.1	500 ml	110,20	88,15
				HN52.2	1 l	174,55	139,55
				HN52.5	2.5 l	224,70	179,70
Water	ROTIPURAN®Supra	GL 45	HDPE	21A2.1	1 l	73,65	58,90
				21A2.2	2.5 l	123,65	98,90

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

## ROTIPURAN® Low organic

TOC (Total Organic Carbon) – content: <20 ppb

Product name	Brand/Purity	Thread	Pack.	Art. No.	Pack Qty.	€	€
Water	ROTIPURAN® Low organic	38–430	glass	HN57.1	1 l	105,25	84,15
				HN57.2	4 l	155,90	124,70

For safety information and additional data see [www.carlroth.com](http://www.carlroth.com)

- For particularly high purity requirements, the ROTIPURAN® Ultra range with trace values in the ppt range is available in our [webshop](#).



Phone

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