

(Ultra-) Trace Analysis

Acids, Bases and Water



ROTIPURAN® Ultra – Highest Purity Level

ROTIPURAN® Ultra ppt Quality

This ultrapure product line is characterised for its especially high purity (**ppt-quality**) and fulfils the highest purity requirements. The metal content of these products is below 100 ppt [parts per trillion= 10^{-12}] while key metals are under 10 ppt. These products are used in ultra trace analysis (via ICP-OES, ICP-MS, AAS, IC) and for applications in the electronics industry. The reagents are bottled and offered in high class fluoropolymer plastic bottles (FEP). The certificates of analysis are available online.



- Specified metal content: less than 100 ppt
- Preponderant metals are under 10 ppt
- More than 65 analysed metals
- Produced and bottled under clean room conditions
- Continuous process control for highest product purity
- Bottled exclusively in purified fluoropolymer bottles
- Highest purity and maximum product safety

ROTIPURAN® Ultra products at a glance

Product name	Thread	Pack.	Art. No.	Pack Qty.
Acetic acid ROTIPURAN®Ultra 100 %	38–430	plastic (FEP)	HN65.2	250 ml
			HN65.1	500 ml
			HN65.3	1 l
Ammonia solution ROTIPURAN®Ultra 20 %	38–430	HDPE	HN66.2	250 ml
			HN66.1	500 ml
			HN66.3	1 l
			HN67.3	250 ml
Hydrobromic acid ROTIPURAN®Ultra 48 %	38–430	plastic (FEP)	HN67.1	500 ml
			HN67.2	1 l
			HN67.4	2 l
			HN63.1	250 ml
Hydrochloric acid ROTIPURAN®Ultra 34 %	38–430	plastic (FEP)	HN63.2	500 ml
			HN63.3	1 l
			HN63.4	2 l
			HN64.2	250 ml
Hydrofluoric acid ROTIPURAN®Ultra 48 %	38–430	plastic (FEP)	HN64.1	500 ml
			HN64.3	1 l

Product name	Thread	Pack.	Art. No.	Pack Qty.
Hydrogen peroxide ROTIPURAN®Ultra 31 %	38–430	plastic (FEP)	HN69.1	500 ml
			HN60.1	250 ml
			HN60.2	500 ml
Nitric acid ROTIPURAN®Ultra 69 %	38–430	plastic (FEP)	HN60.3	1 l
			HN60.4	2 l
			HN61.2	250 ml
			HN61.1	500 ml
Perchloric acid ROTIPURAN®Ultra 70 %	38–430	plastic (FEP)	HN61.3	1 l
			HN62.1	250 ml
			HN62.2	500 ml
Sulphuric acid ROTIPURAN®Ultra 95 %	38–430	plastic (FEP)	HN62.3	1 l
			HN62.4	2 l
			HN68.1	500 ml
			HN68.2	1 l
Water ROTIPURAN®Ultra	38–430	LDPE	HN68.3	2 l

For additional product data and safety information, see our current catalogue or at www.carlroth.com

Dispenser Ultra / Ultra HF

For dispensing highly pure acids and alkalis. Suitable for use in ultra trace analysis.
ROTH SELECTION.

General features of all models:

- Free of metals
- Made of high quality and highly pure plastics (PTFE, TFM and PFA)
- Calibrated and mechanically tested for precision and accuracy
- 38-430 thread (fits ROTIPURAN® Ultra products)

Properties Dispenser Ultra:

- Acid cleansed
- Manufactured in cleanroom (class 100)

Properties Dispenser Ultra HF:

- Specially for dispensing hydrofluoric acids
- Also suitable for analytical acids



When using bottles with a GL 45 thread, please order fastening for dispenser KK11.1 separately.

Model	Volume (ml)	Graduation (ml)	Tolerance (ml)	Art. No.	Pack Qty.
Ultra	0,5–5	0,5	±0,02	KK97.1	1 unit(s)
Ultra HF	0,5–5	0,5	±0,02	KK98.1	1 unit(s)

Trace Analysis

ROTIPURAN® Supra ppb Quality

This supra quality line (**ppb-quality**) is perfectly suitable for sample preparation in trace analysis (e.g. via ICP-OES, AAS, IC, etc.). Over 60 elements are specified and their content is below 1 ppb [parts per billion = 10^{-9}]. Bottled and delivered in special plastic bottles. The certificates of analysis are available online.



- Maximum metal contamination: <1 ppb
- 60 specified metals
- Produced and filled under clean room conditions
- Bottled in special lightweight bottles for greater safety and easier handling. 2,5 liter bottles have got a handle
- HF is delivered with additional drop spout for safe handling
- Extremely economical purity for most analytic applications

ROTIPURAN® Supra products at a glance

Product name	Thread	Pack.	Art. No.	Pack Qty.
Acetic acid ROTIPURAN®Supra 100 %	GL 45	HDPE	HN55.1	500 ml
			HN55.3	1 l
	HN55.4		2.5 l	
	HN55.5		4 l	
Ammonia solution ROTIPURAN®Supra 20 %	38-430	HDPE	HN56.1	500 ml
			HN56.3	4 l
Hydrochloric acid ROTIPURAN®Supra 35 %	GL 45	HDPE	HN53.1	500 ml
			HN53.2	1 l
	HN53.3		2.5 l	
	HN53.4		4 l	
	38-430			
Hydrochloric acid ROTIPURAN®Supra 30 %	GL 45	HDPE	NE57.2	1 l
			NE57.3	2.5 l
Hydrofluoric acid ROTIPURAN®Supra 48 %	38-430	LDPE	HN54.1	500 ml

Product name	Thread	Pack.	Art. No.	Pack Qty.
Nitric acid ROTIPURAN®Supra 69 %	GL 45	HDPE	HN50.1	500 ml
			HN50.2	1 l
			HN50.3	2.5 l
Nitric acid ROTIPURAN®Supra 65 %	GL 45	HDPE	1YLN.1	1 l
			1YLN.2	2.5 l
Perchloric acid ROTIPURAN®Supra 70 %	GL 45	HDPE	HN51.1	500 ml
			HN51.3	1 l
			HN51.4	2.5 l
Sulphuric acid ROTIPURAN®Supra 95 %	GL 45	HDPE	HN52.1	500 ml
			HN52.2	1 l
			HN52.5	2.5 l
Water ROTIPURAN®Supra	GL 45	HDPE	21A2.1	1 l
			21A2.2	2.5 l
Water ROTIPURAN® Low organic	38-430	glass	HN57.1	1 l
			HN57.2	4 l

For additional product data and safety information, see our current catalogue or at www.carlroth.com

► Suitable **bottle holders** and **adapters** for dispensers can be found at www.carlroth.com



Current prices at www.carlroth.com

Contact international:

Phone +49 721/5606 510 · Fax +49 721/5606 111 · info@carlroth.com · www.carlroth.com

Carl Roth GmbH + Co. KG · Schoemperlenstr. 3-5 · D-76185 Karlsruhe

Export prices might be higher.

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