



Chemicals TOP Offers



Colour Standards according to Ph.Eur

-15%

ROTI®Calipure

The European Pharmacopoeia (Ph. Eur.) specifies the visual colour comparison method in chapter 2.2.2. In this method, 5 further colour reference solutions are prepared from the 3 primary solutions red, yellow and blue with 1 % hydrochloric acid. Carl ROTH offers you both the primary solutions and the ready-mixed colour reference solutions yellow, greenish-yellow, brownish-yellow, brown and red.

Our colour standards according to Ph. Eur. are prepared from high-quality reagents by weighing (weight %). The standards are checked by means of a spectrophotometer.

The batch specific Certificates of Analysis are available online.

Properties:

- Consistently high quality from batch to batch
- *Ready-to-use*



Product name	Brand/Purity	Art. No.	Pack Qty.	€	€
Colour Standard diluting solution	ROTI®Calipure 10 g/l HCl	1HC3.1	1 l	170,95	145,25
Colour Standard	ROTI®Calipure Reag. Ph. Eur., Primary solution, blue	1HAN.1	100 ml	160,20	136,15
	ROTI®Calipure Reag. Ph. Eur., Primary solution, red	1HAT.1	100 ml	241,90	205,55
	ROTI®Calipure Reag. Ph. Eur., Primary solution, yellow	1HAP.1	100 ml	160,20	136,15
	ROTI®Calipure Reag. Ph. Eur., standard solution brown	1HAX.1	100 ml	241,90	205,55
	ROTI®Calipure Reag. Ph. Eur., standard solution brownish-yellow	1HAY.1	100 ml	203,20	172,70
	ROTI®Calipure Reag. Ph. Eur., standard solution greenish-yellow	1HC1.1	100 ml	203,20	172,70
	ROTI®Calipure Reag. Ph. Eur., standard solution red	1HC2.1	100 ml	241,90	205,55
	ROTI®Calipure Reag. Ph. Eur., standard solution yellow	1HC0.1	100 ml	203,20	172,70

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

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Calibration Standards

Conductivity standards ROTI®Calipure

Our conductivity standard solutions are made from high-quality reagents and therefore ensure maximum precision during calibration.

Properties:

- Variation in conductivity $\pm 1\%$ (25 °C)
- Traceable to SRM from NIST
- Aqueous solutions, with KCl
- Tested in an accredited laboratory in accordance with ISO 17025

-20%



Brand/Purity	Art. No.	Pack Qty.	€	€
ROTI®Calipure 5 µS/cm (25 °C)	2462.1	500 ml	209,65	167,70
ROTI®Calipure 10 µS/cm (25 °C)	0810.1	250 ml	155,90	124,70
	0810.2	500 ml	274,15	219,30
ROTI®Calipure 20 µS/cm (25 °C)	0811.1	500 ml	102,05	81,55
ROTI®Calipure 50 µS/cm (25 °C)	0812.1	500 ml	185,45	148,35
ROTI®Calipure 84 µS/cm (25 °C)	2432.1	500 ml	38,60	30,85
	2432.2	1 l	51,10	40,85
ROTI®Calipure 100 µS/cm (25 °C)	2463.1	500 ml	102,05	81,55
ROTI®Calipure 147 µS/cm (25 °C)	2433.1	500 ml	38,60	30,85
	2433.2	1 l	51,10	40,85
ROTI®Calipure 500 µS/cm (25 °C)	2464.1	500 ml	102,05	81,55
ROTI®Calipure 1000 µS/cm (25 °C)	2465.1	500 ml	102,05	81,55
ROTI®Calipure 1413 µS/cm (25 °C)	2434.1	500 ml	38,60	30,85
	2434.2	1 l	51,10	40,85
ROTI®Calipure 5000 µS/cm (25 °C)	0814.1	500 ml	102,05	81,55
ROTI®Calipure 10 000 µS/cm (25 °C)	2466.1	500 ml	142,45	113,95
ROTI®Calipure 12 880 µS/cm (25 °C)	2435.1	500 ml	38,60	30,85
	2435.2	1 l	51,10	40,85
ROTI®Calipure 20 000 µS/cm (25 °C)	0822.1	500 ml	142,45	113,95
ROTI®Calipure 50 000 µS/cm (25 °C)	0831.1	500 ml	102,05	81,55
ROTI®Calipure 100 000 µS/cm (25 °C)	0832.1	500 ml	102,05	81,55
ROTI®Calipure 500 000 µS/cm (25 °C)	2467.1	500 ml	142,45	113,95

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

pH-Buffer Solutions, DuraCal

Properties:

- Bottles with built-in calibration chamber
- Only around 15 ml of solution required per calibration
- Accurate and fast calibration of the measuring devices
- The pH value is set by comparison with two different buffer reference solutions that can be traced back to primary reference materials from PTB or NIST
- Certified pH value: the buffer solutions are independently certified by the DAkkS
- Stabilised against microbial growth
- Certificates of analysis incl. DAkkS certificate are available online

NEW



Product name	Art. No.	Pack Qty.	€
Buffer solution DuraCal pH 4.01 ± 0.01 (25 °C)	25AX.1	500 ml	42,90
Buffer solution DuraCal pH 7.00 ± 0.01 (25 °C)	25AY.1	500 ml	42,90
Buffer solution DuraCal pH 9.21 ± 0.02 (25 °C)	25C0.1	500 ml	42,90
Buffer solution DuraCal pH 10.01 ± 0.02 (25 °C)	25C1.1	500 ml	42,90

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



Calibration Standards

-15%

Standards for petrochemical products

NEW

Carl ROTH has the appropriate analytical standards for you to determine the quality parameters of petrochemical products. They are manufactured in accordance with ISO 17034 in an accredited environment and tested in an ISO/IEC 17025 accredited laboratory. Each standard solution is manufactured from high-purity reagents. The batch-specific certificates of analysis are available online.

Product name	Brand/Purity	Art. No.	Pack Qty.	€	€
Cloud Point Standard	ROTI®Calipure acc. to ASTM D2500 and ISO 3015 (diesel)	27NK.1	250 ml	235,45	200,10
Cold Filter Plugging Point (CFPP) Standard	ROTI®Calipure acc. to ASTM D6371 and EN 116 (summer diesel -9.5 °C)	27NL.1	250 ml	235,45	200,10
	ROTI®Calipure acc. to ASTM D6371 and EN 116 (winter diesel -29 °C)	27NN.1	250 ml	235,45	200,10
	ROTI®Calipure acc. to ASTM D6371 and EN 116 (winter diesel approx. -20 °C)	27NP.1	250 ml	299,95	254,90
Density Standard Gasoline	ROTI®Calipure 0,7469 g/cm ³ (15 °C), acc. to ASTM D4052 and ISO 12185	27NY.1	250 ml	235,45	200,10
Density Standard Diesel	ROTI®Calipure 0,8305 g/cm ³ (15 °C), acc. to ASTM D4052 and ISO 12185	27P0.1	250 ml	235,45	200,10
Density and Viscosity Standard	ROTI®Calipure 20 cSt (40 °C)	27P1.1	250 ml	95,70	81,30
Distillation Standard	ROTI®Calipure acc. to ASTM D86 and EN ISO 3405 (gasoline 30-210 °C)	27NT.1	250 ml	235,45	200,10
	ROTI®Calipure acc. to ASTM D86 and EN ISO 3405 (diesel 160-380 °C)	27NX.1	250 ml	235,45	200,10
Flash Point Standard	ROTI®Calipure 62,5 °C, acc. to ASTM D93 and EN ISO 2719 (diesel)	27P2.1	250 ml	235,45	200,10
	ROTI®Calipure 50 °C, acc. to ASTM D93 and EN ISO 2719 (kerosine)	27P3.1	250 ml	267,70	227,50
Multi-Parameter Standard Gasoline	ROTI®Calipure	27P5.1	250 ml	428,95	364,55
Multi-Parameter Standard Petroleum Products	ROTI®Calipure	27P4.1	250 ml	428,95	364,55
Pour Point Standard	ROTI®Calipure acc. to ASTM D97 and EN ISO 3016 (summer diesel -9 °C)	27P6.1	250 ml	235,45	200,10
	ROTI®Calipure acc. to ASTM D97 and EN ISO 3016 (winter diesel -29 °C)	27P7.1	250 ml	235,45	200,10

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Turbidity Standards

-15%

The turbidity standards are prepared from hydrazine sulphate and hexamethylenetetramine as well as deionised water. The standards can be used to calibrate and validate the methods.

This is a suspension that must be mixed thoroughly but carefully for use. Possible air inclusions due to shaking can give false results. The solutions are stable within the shelf life. 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.

NTU: Nephelometric Turbidity Unit

NEW

Brand/Purity	Art. No.	Pack Qty.	€	€
ROTI®Calipure <0,1 NTU	275X.1	100 ml	95,70	81,30
	275X.2	500 ml	438,70	117,85
ROTI®Calipure 0,5 NTU	275Y.1	100 ml	95,70	81,30
	275Y.2	500 ml	438,70	117,85
ROTI®Calipure 1 NTU	276A.1	100 ml	95,70	81,30
	276A.2	500 ml	438,70	117,85
ROTI®Calipure 5 NTU	276C.1	100 ml	95,70	81,30
	276C.2	500 ml	438,70	117,85
ROTI®Calipure 10 NTU	276E.1	100 ml	95,70	81,30
	276E.2	500 ml	438,70	117,85
ROTI®Calipure 15 NTU	276H.1	100 ml	95,70	81,30
	276H.2	500 ml	438,70	117,85
ROTI®Calipure 20 NTU	276K.1	100 ml	95,70	81,30
	276K.2	500 ml	438,70	117,85
ROTI®Calipure 40 NTU	276L.1	100 ml	95,70	81,30
	276L.2	500 ml	438,70	117,85
ROTI®Calipure 50 NTU	276N.1	100 ml	95,70	81,30
	276N.2	500 ml	438,70	117,85
ROTI®Calipure 100 NTU	276P.1	100 ml	95,70	81,30
	276P.2	500 ml	438,70	117,85
ROTI®Calipure 200 NTU	276T.1	100 ml	95,70	81,30
	276T.2	500 ml	438,70	117,85
ROTI®Calipure 400 NTU	276X.1	100 ml	95,70	81,30
	276X.2	500 ml	438,70	117,85
ROTI®Calipure 500 NTU	276Y.1	100 ml	95,70	81,30
	276Y.2	500 ml	438,70	117,85
ROTI®Calipure 750 NTU	277A.1	100 ml	95,70	81,30
	277A.2	500 ml	438,70	117,85
ROTI®Calipure 800 NTU	277C.1	100 ml	95,70	81,30
	277C.2	500 ml	438,70	117,85
ROTI®Calipure 1000 NTU	277E.1	100 ml	95,70	81,30
	277E.2	500 ml	438,70	117,85
ROTI®Calipure 2000 NTU	277H.1	100 ml	95,70	81,30
	277H.2	500 ml	438,70	117,85
ROTI®Calipure 4000 NTU	277K.1	100 ml	95,70	81,30
	277K.2	500 ml	438,70	117,85

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

Solvents for Environmental Analysis

-20%**ROTISOLV® Pestilyse® plus Solvents**

for determination of dioxines, furanes, PCBs, pesticides, hydrocarbons and further pollutants

Properties:

- Highest purity
- Controlled by FID, ECD and NP
- PAH tested
- Tested for hydrocarbons C₁₄-C₄₀
- Tested for fluorescence
- Volatile impurities: max. 5 ppm
- Non-volatile impurities: max. 5 ppm



Carl ROTH created this product line (ROTISOLV® Pestilyse® plus) especially to address the growing requirements in residue analysis. Several relevant parameters are specified for these solvents which allow the use in various applications. With this product line, Carl ROTH sets the benchmark for residue analysis solvents in terms of purity and quality.

Product name	Brand/Purity	Art. No.	Pack Qty.	€	€
Acetic acid ethyl ester	ROTISOLV® Pestilyse® plus ≥99,9 %	7565.1	2.5 l	98,80	79,00
Acetone	ROTISOLV® Pestilyse® plus ≥99,9 %	7535.1	2.5 l	81,60	65,25
Acetonitrile	ROTISOLV® Pestilyse® plus ≥99,9 %	1HP5.1	2.5 l	145,15	116,10
Cyclohexane	ROTISOLV® Pestilyse® plus ≥99,9 %	7542.1	2.5 l	123,65	98,90
Dichloromethane	ROTISOLV® Pestilyse® plus ≥99,9 %, stabilised with amylene	7562.1	2.5 l	103,75	82,95
Ethanol	ROTISOLV® Pestilyse® plus ≥99,9 %	1HP6.1	2.5 l	228,45	182,75
<i>n</i> -Heptane	ROTISOLV® Pestilyse® plus ≥99 %	7566.1	2.5 l	145,15	116,10
<i>n</i> -Hexane	ROTISOLV® Pestilyse® plus ≥99 %	7573.1	2.5 l	170,95	136,70
	ROTISOLV® Pestilyse® plus ≥96 %	7567.1	2.5 l	138,70	110,90
Isohexane	ROTISOLV® Pestilyse® plus ≥96 %	7576.1	2.5 l	132,80	106,20
Isooctane	ROTISOLV® Pestilyse® plus ≥99,7 %	7580.1	2.5 l	155,90	124,70
Methanol	ROTISOLV® Pestilyse® plus ≥99,9 %	7583.1	2.5 l	59,70	47,70
<i>n</i> -Pentane	ROTISOLV® Pestilyse® plus ≥99 %	7587.1	2.5 l	166,65	133,30
Petroleum ether 40–60 °C	ROTISOLV® Pestilyse® plus	7588.1	2.5 l	99,90	79,85
2-Propanol	ROTISOLV® Pestilyse® plus ≥99,9 %	7590.1	2.5 l	76,25	60,95
Toluene	ROTISOLV® Pestilyse® plus ≥99,8 %	7591.1	2.5 l	90,20	72,10
Trichloromethane/Chloroform	ROTISOLV® Pestilyse® plus ≥99,9 %, stabilised with amylene	7554.1	2.5 l	107,00	85,55

For safety information and additional data, see our current catalogue or at www.carlroth.com**Solvents for MOSH/MOAH Analysis**

for identifying petroleum-derived saturated and aromatic hydrocarbons.

-20%

The analysis and quantitative identification of MOSH/MOAH constituents is performed as a sum parameter. The sample is extracted using *n*-hexane and verified using coupled liquid chromatography-gas chromatography.

MOSH: Mineral oil saturated hydrocarbons (paraffins and naphthenes)
MOAH: Mineral oil aromatic hydrocarbons (mono- or polyaromatic rings)



Dichloromethane
ROTISOLV® ≥99,9 %, MOSH/MOAH,
stabilised with amylene

⚠️ ⚠️ **Warning** H315-H319-H336-H351

Art. No.	Pack Qty.	Pack.	€	€
0770.1	2.5 l	glass	131,70	105,35

Ethanol*
ROTISOLV® ≥99,9 %, MOSH/MOAH

Ethanol non denaturated · EtOH

⚠️ ⚠️ **Danger** H225-H319

Art. No.	Pack Qty.	Pack.	€	€
20PT.1	1 l	glass	224,70	179,70

*Prices include German tax on alcohol

***n*-Hexane**
ROTISOLV® ≥99 %, MOSH/MOAH

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

Art. No.	Pack Qty.	Pack.	€	€
0840.1	2.5 l	glass	166,65	133,30



Acids, Alkalis & Water

ROTIPURAN® Supra

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.



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	106,45	90,45
				HN55.3	1 l	162,90	138,40
		38-430		HN55.4	2.5 l	206,95	175,85
				HN55.5	4 l	319,85	271,80
Ammonia solution	ROTIPURAN®Supra 20 %	38-430	HDPE	HN56.1	500 ml	91,95	78,10
				HN56.3	4 l	499,99	424,85
Hydrochloric acid	ROTIPURAN®Supra 35 %	GL 45	HDPE	HN53.1	500 ml	99,90	84,85
				HN53.2	1 l	153,20	130,15
		38-430		HN53.3	2.5 l	170,95	145,25
				HN53.4	4 l	256,95	218,35
	ROTIPURAN®Supra 30 %	GL 45	HDPE	NE57.2	1 l	130,65	110,95
				NE57.3	2.5 l	177,40	150,75
Hydrofluoric acid	ROTIPURAN®Supra 48 %	38-430	LDPE	HN54.1	500 ml	188,15	159,90
Nitric acid	ROTIPURAN®Supra 69 %	GL 45	HDPE	HN50.1	500 ml	101,60	86,30
				HN50.2	1 l	155,90	132,45
				HN50.3	2.5 l	188,15	159,90
	ROTIPURAN®Supra 65 %	GL 45	HDPE	1YLN.1	1 l	138,70	117,85
				1YLN.2	2.5 l	170,95	145,25
Perchloric acid	ROTIPURAN®Supra 70 %	GL 45	HDPE	HN51.1	500 ml	220,40	187,30
				HN51.3	1 l	356,40	302,85
				HN51.4	2.5 l	532,15	452,30
Sulphuric acid	ROTIPURAN®Supra 95 %	GL 45	HDPE	HN52.1	500 ml	103,75	88,15
				HN52.2	1 l	166,65	141,60
				HN52.5	2.5 l	213,95	181,80
Water	ROTIPURAN®Supra	GL 45	HDPE	21A2.1	1 l	69,80	59,25
				21A2.2	2.5 l	117,20	99,60
	ROTIPURAN® Low organic	38-430	glass	HN57.1	1 l	90,20	76,65
				HN57.2	4 l	147,85	125,60

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

ROTIPURAN® Low Organic:
TOC (Total Organic Carbon) - content: <20 ppb

► Acids and alkalis in ppt quality can be found in the current catalogue or at www.carlroth.com

Vitamins

-20%

Product name	Purity	Synonymous	Art. No.	Pack Qty.	€	€
4-Aminobenzoic acid	≥98,5 %, for synthesis	PABA, Vitamin B ₁₀ , <i>p</i> -Aminobenzoic acid	0979.1	50 g	22,05	17,60
			0979.2	250 g	42,50	33,95
			0979.3	1 kg	123,65	98,90
L(+)-Ascorbic acid	≥99 %, p.a.	Vitamin C	3525.1	100 g	16,70	13,30
			3525.2	250 g	23,15	18,45
			3525.3	500 g	99,70	31,70
	≥99 %, Ph. Eur., USP, BP	Vitamin C	6288.1	100 g	17,10	13,65
			6288.2	250 g	25,70	20,50
6288.3	1 kg	83,75	66,95			
L(+)-Ascorbic acid sodium salt	≥99 %, USP, for biochemistry	Sodium L(+)-ascorbate	3149.1	100 g	30,00	23,95
			3149.2	500 g	89,15	71,25
D(+)-Biotin	≥98,5 %, Ph. Eur., for biochemistry	Vitamin H	3822.2	500 mg	61,20	48,90
			3822.1	1 g	99,90	79,85
			3822.3	5 g	932,20	265,70
			3822.4	10 g	557,95	446,30
			3822.5	25 g	1.224,45	979,50
Calcium D(+)-pantothenate	≥98 %, Ph. Eur., for biochemistry	D(+)-Pantothenic acid calcium salt, Vitamin B ₅ calcium salt	3812.2	100 g	77,95	62,35
			3812.1	250 g	188,15	150,50
Cholecalciferol	≥98 %, for biochemistry	Vitamin D ₃ , Colecalciferol	1T99.1	500 mg	19,90	15,90
			1T99.2	1 g	93,25	26,55
			1T99.3	5 g	83,75	66,95
7-Dehydrocholesterol	≥95 %, for biochemistry	Provitamin D ₃ , Cholesta-5,7-dien-3β-ol	1T97.1	1 g	22,05	17,60
			1T97.2	10 g	120,95	96,75
			1T97.3	25 g	278,45	222,70
Ergocalciferol	≥97,5 %, for biochemistry	Calciferol, Vitamin D ₂	1T9E.1	500 mg	55,40	44,25
			1T9E.2	1 g	99,90	79,85
Ergosterol	≥94 %, for biochemistry	Provitamin D ₂ , Ergosta-5,7,22-trien-3β-ol	1T9N.1	10 g	77,95	62,35
			1T9N.2	25 g	166,65	133,30
			1T9N.3	50 g	299,95	239,90
Folic acid	≥96 %, for biochemistry	Pteroyl glutamic acid, Vitamin B ₉	T912.1	25 g	55,80	44,60
			T912.2	50 g	104,20	83,30
Menadione	≥98 %, for biochemistry	Vitamin K ₃ , 2-Methylnaphthalene-1,4-dione	1T96.1	10 g	27,85	22,25
			1T96.2	25 g	55,80	44,60
			1T96.3	100 g	166,65	133,30
Menaquinone	≥98 %, for biochemistry	Vitamin K ₂	1T9C.1	25 mg	93,25	26,55
			1T9C.2	50 mg	55,80	44,60
Methylcobalamin	≥98,5 %, for biochemistry	Vitamin B ₁₂	1T9A.1	25 mg	16,70	13,30
			1T9A.2	100 mg	61,20	48,90
			1T9A.3	250 mg	134,40	107,50
Nicotinic acid	≥98 %, for biochemistry	3-Pyridine carboxylic acid, Niacin, Vitamin B ₃	3815.1	100 g	46,80	37,40
			3815.2	250 g	93,00	74,35
Panthenol	≥98 %, for biochemistry	Pantothenol, Provitamin B ₅	1T95.1	25 g	22,05	17,60
			1T95.2	50 g	99,25	31,35
			1T95.3	100 g	67,20	53,75
Pyridoxal phosphate	≥98 %, for biochemistry	Pyridoxal 5-phosphate, PLP, Vitamin B ₆ Phosphate	1T9H.1	1 g	22,05	17,60
			1T9H.2	10 g	89,15	71,25
			1T9H.3	25 g	155,90	124,70
Pyridoxine hydrochloride	≥99 %, for biochemistry	Adermine hydrochloride, Vitamin B ₆ hydrochloride	T914.1	50 g	98,20	30,50
			T914.2	100 g	66,15	52,85
Retinol	≥95 %, for biochemistry	Vitamin A ₁	1T98.1	25 mg	23,15	18,45
			1T98.2	100 mg	47,85	38,25
			1T98.3	500 mg	166,65	133,30
Riboflavine	≥97 %, Ph. Eur., for biochemistry	Lactoflavine, Vitamin B ₂	9607.1	25 g	99,70	31,70
			9607.2	50 g	69,80	55,75
			9607.3	100 g	117,20	93,70
			9607.4	250 g	231,15	184,90
Thiamine hydrochloride	≥98,5 %, for biochemistry	Aneurine hydrochloride, Thiamine chloride hydrochloride, Vitamin B ₁ hydrochloride	T911.1	25 g	28,50	22,75
			T911.2	100 g	77,95	62,35
			T911.3	250 g	170,95	136,70
DL-α-Tocopherol	≥96 %, Ph. Eur., oily	Vitamin E	3806.2	25 g	44,00	35,15
			3806.1	100 g	123,65	98,90
			3806.3	250 g	267,70	214,10
DL-α-Tocopherol acetate	≥96,5 %, Ph. Eur., oily	Vitamin E acetate	3805.2	25 g	40,35	32,25
			3805.1	100 g	110,20	88,15
			3805.3	250 g	220,40	176,30
Vitamin B ₁₂	≥96 %, for biochemistry	Cyanocobalamin	T915.1	500 mg	54,75	43,75
			T915.2	1 g	95,60	76,40
			T915.3	2.5 g	198,90	159,10
Vitamin K ₁	≥97 %, for biochemistry	Phylloquinone, Phytomenadione	3804.1	1 g	96,05	28,80
			3804.3	5 g	120,95	96,75
			3804.2	10 g	213,95	171,10

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



Biochemicals

-20%

Lecithin



Lecithin from eggs, for biochemistry

Storage temperature: -20 °C
Transport temperature: ambient temp.

CAS No. 93685-90-6

Art. No.	Pack Qty.	Pack.	€	€
7514.1	25 g	plastic	57,95	46,30
7514.2	100 g	plastic	160,20	128,10



Lecithin ≥97 %, made from soybeans, for biochemistry

CAS No. 8002-43-5

Art. No.	Pack Qty.	Pack.	€	€
9812.1	250 g	plastic	27,85	22,25
9812.3	1 kg	plastic	73,65	58,90
9812.2	2.5 kg	plastic	170,95	136,70
9812.8	25 kg	plastic	1.030,95	824,70



Lecithin ≥97 %, made from soybeans, GVO-free, for biochemistry

Fat-free soy-lecithin, made from genetically unmodified plants.

CAS No. 8002-43-5

Art. No.	Pack Qty.	Pack.	€	€
AE81.1	100 g	plastic	21,40	17,05
AE81.2	250 g	plastic	39,70	31,70
AE81.3	1 kg	plastic	117,20	93,70

Gelatine

-20%

Gelatine extra pure, silver, 140 Bloom

Storage temperature: +15 to +25 °C

Art. No.	Pack Qty.	Pack.	€	€
4275.4	100 g	plastic	20,35	16,20
4275.3	500 g	plastic	38,60	30,85
4275.1	1 kg	plastic	54,30	43,40
4275.2	5 kg	plastic	224,70	179,70



Gelatine extra pure, crystal, 160 Bloom

Storage temperature: +15 to +25 °C

Art. No.	Pack Qty.	Pack.	€	€
4308.4	100 g	plastic	21,00	16,75
4308.3	500 g	plastic	38,60	30,85
4308.1	1 kg	plastic	55,80	44,60
4308.2	5 kg	plastic	227,40	181,85

Gelatine extra pure, gold, 180 Bloom

Storage temperature: +15 to +25

Art. No.	Pack Qty.	Pack.	€	€
4274.4	100 g	plastic	22,05	17,60
4274.3	500 g	plastic	39,70	31,70
4274.1	1 kg	plastic	56,90	45,45
4274.2	5 kg	plastic	231,15	184,90

Gelatine extra pure, platinum, 240 Bloom

Storage temperature: +15 to +25 °C

Art. No.	Pack Qty.	Pack.	€	€
4582.4	100 g	plastic	23,15	18,45
4582.3	500 g	plastic	41,40	33,10
4582.1	1 kg	plastic	66,55	53,20
4582.2	5 kg	plastic	235,45	188,30

Further Biochemicals

-20%

1,4-Dithiothreitol (DTT) ≥99 %, p.a.

For biochemistry and molecular biology.

Storage temperature: +4 °C

⚠ Warning H302-H315-H319-H335-H412

Art. No.	Pack Qty.	Pack.	€	€
6908.1	5 g	plastic	76,90	61,45
6908.3	10 g	plastic	117,20	93,70
6908.2	25 g	plastic	267,70	214,10
6908.4	100 g	plastic	815,95	652,70

1,4-Dithioerythritol (DTE) ≥99 %, p.a.

For biochemistry and molecular biology.

⚠ Warning H315-H319-H335

Art. No.	Pack Qty.	Pack.	€	€
8814.1	5 g	glass	90,85	72,65
8814.3	10 g	glass	155,90	124,70
8814.2	25 g	glass	327,90	262,30

2-Mercaptoethanol ≥99 %, p.a.

Reducing agent.

Storage temperature: +4 °C

⚠ ⚠ ⚠ ⚠ ⚠ Danger H301+H331-H310-H315-H317-H318-H373-H410

Art. No.	Pack Qty.	Pack.	€	€
4227.3	100 ml	glass	19,25	15,35
4227.1	250 ml	glass	28,50	22,75
4227.2	1 l	glass	65,50	52,35

Silicone Oils

-20%**Silicone oil M 350**
medium viscous, 350 cSt

Art. No.	Pack Qty.	Pack.	€	€
4035.6	250 ml	plastic	90,00	23,95
4035.1	1 kg	plastic	55,80	44,60
4035.5	2.5 kg	plastic	191,70	105,35
4035.2	5 kg	plastic	219,95	171,10
4035.4	10 kg	plastic	385,95	308,70
4035.3	25 kg	plastic	843,90	675,10

Silicone oil M 100
medium viscous, 100 cSt

Art. No.	Pack Qty.	Pack.	€	€
4025.5	250 ml	plastic	90,00	23,95
4025.1	1 kg	plastic	55,80	44,60
4025.2	5 kg	plastic	219,95	171,10
4025.3	10 kg	plastic	407,45	325,90
4025.4	25 kg	plastic	919,15	735,30

Silicone oil M 3
low viscous, 3 cSt

Art. No.	Pack Qty.	Pack.	€	€
4106.1	1 kg	plastic	110,20	88,15
4106.2	5 kg	plastic	439,70	351,70
4106.3	25 kg	plastic	1.988,75	1.591,00



Stabilised Silicone Oils

Product name	Purity	Art. No.	Pack Qty.	€	€
Silicone oil M 3	low viscous, stabilised	4217.3	1 l	127,95	102,30
		4217.4	5 l	547,20	437,70
		4217.2	10 l	1.037,40	829,90
		4217.1	25 kg	2.499,40	1.999,50
Silicone oil M 5	low viscous, stabilised	A413.3	1 l	77,95	62,35
		A413.2	5 l	349,40	279,50
		A413.4	10 l	661,15	528,90
		A413.1	25 kg	1.451,25	1.161,00
Silicone oil M 20	low viscous, stabilised	2188.3	1 l	74,75	59,75
		2188.4	5 l	317,15	253,70
		2188.2	10 l	600,95	480,70
		2188.1	25 kg	1.424,40	1.139,50
Silicone oil M 50	medium viscous, stabilised	4212.3	1 l	76,90	61,45
		4212.5	5 l	317,15	253,70
		4212.4	10 l	596,65	477,30
		4212.1	25 kg	1.392,15	1.113,70
Silicone oil M 100	medium viscous, stabilised	A528.4	1 l	81,20	64,90
		A528.2	5 l	327,90	262,30
		A528.3	10 l	596,65	477,30
		A528.1	25 kg	1.316,90	1.053,50

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

Dried Silicone Oils

Special linear polydimethylsiloxanes for use as cold carrier media.

max. 50 ppm H₂O**-20%****Silicone oil TT 2**
low viscous, 2 cSt, dried

Temperature range: -120 to 150 °C

Art. No.	Pack Qty.	Pack.	€	€
1965.1	25 kg	plastic	2.633,75	2.107,00

Silicone oil TT 3
low viscous, 3 cSt, dried

Temperature range: -70 to 150 °C

Art. No.	Pack Qty.	Pack.	€	€
1952.1	25 kg	plastic	2.606,90	2.085,50

Silicone oil TT 5
low viscous, 5 cSt, dried

Temperature range: -70 to 150 °C

Art. No.	Pack Qty.	Pack.	€	€
1971.1	25 kg	plastic	2.176,90	1.741,50

Silicone Remover

-20%**Silicone remover, liquid**

First remove silicone from the treated surface with a knife or similar tool. Apply the liquid silicone remover with a brush on the surface to remove remaining residues. After a dwell time of 3-20 hrs. (depending on the thickness of the layer), wiped off the liquid silicone remover. Any remaining residue is then removed with a wet cloth.

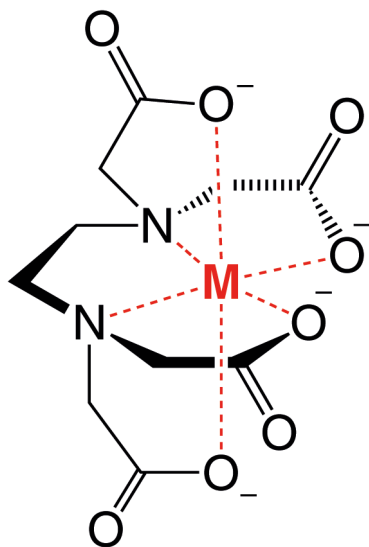
Danger H304-H314

Art. No.	Pack Qty.	Pack.	€	€
1K1E.1	500 ml	HDPE	31,10	24,80
1K1E.2	1 l	HDPE	44,65	35,65
1K1E.3	5 l	HDPE	177,40	141,90
1K1E.4	10 l	HDPE	327,90	262,30

► You can find more [Silicone Fluids & Compounds](#) in our range



Complexing Agents **-20%**



trans-1,2-Diaminocyclohexane-*N,N,N',N'*-tetracetic acid monohydrate
 ≥97,5 %, p.a., ACS

Warning H315-H319

Art. No.	Pack Qty.	Pack.	€	€
1412.1	25 g	plastic	42,90	34,25
1412.2	100 g	plastic	125,25	100,15
1412.3	250 g	plastic	274,15	219,30
1412.4	500 g	plastic	510,65	408,50

EGTA

≥99 %, p.a.

For molecular biology and biochemistry.

Art. No.	Pack Qty.	Pack.	€	€
3054.1	10 g	plastic	44,00	35,15
3054.2	50 g	plastic	170,95	136,70
3054.3	100 g	plastic	299,95	239,90

Ethylenediamine tetracetic acid (EDTA)

≥99 %, p.a., ACS

For molecular biology and biochemistry.

Warning H319

Art. No.	Pack Qty.	Pack.	€	€
8040.1	100 g	plastic	23,55	18,80
8040.3	500 g	plastic	74,10	59,20
8040.2	1 kg	plastic	115,60	92,45
8040.4	2.5 kg	plastic	291,15	184,90
8040.5	25 kg	plastic	1.881,25	1.505,00

Ethylenediamine tetracetic acid dipotassium salt dihydrate (EDTA-K₂ · 2 H₂O)

≥99 %, p.a.

Warning H332-H373

Art. No.	Pack Qty.	Pack.	€	€
3053.1	100 g	plastic	92,15	25,65
3053.2	250 g	plastic	68,30	54,60
3053.3	500 g	plastic	120,95	96,75
3053.4	1 kg	plastic	213,95	171,10
3053.5	5 kg	plastic	854,65	683,70

Ethylenediamine tetracetic acid disodium salt dihydrate (EDTA-Na₂ · 2 H₂O)

≥99 %, p.a., ACS

For molecular biology and biochemistry.

Warning H332-H373

Art. No.	Pack Qty.	Pack.	€	€
8043.3	100 g	plastic	91,75	25,35
8043.1	250 g	plastic	61,20	48,90
8043.2	1 kg	plastic	163,95	131,15
8043.6	2.5 kg	plastic	317,15	253,70
8043.4	5 kg	plastic	622,45	497,90
8043.5	25 kg	plastic	1.773,75	1.419,00

Ethylenediamine tetracetic acid tetrasodium salt dihydrate (EDTA-Na₄ · 2 H₂O)

≥99 %

Danger H302+H332-H318-H373

Art. No.	Pack Qty.	Pack.	€	€
1410.1	250 g	plastic	25,70	20,50
1410.2	500 g	plastic	46,80	37,40
1410.3	1 kg	plastic	83,75	66,95
1410.4	5 kg	plastic	349,40	279,50

Ethylenediamine tetracetic acid tetrasodium salt hydrate (EDTA-Na₄ · x H₂O)

84–88 %

Danger H302+H332-H318-H373

Art. No.	Pack Qty.	Pack.	€	€
3619.2	500 g	plastic	53,65	42,85
3619.1	1 kg	plastic	96,65	77,25
3619.4	2.5 kg	plastic	209,65	167,70
3619.3	5 kg	plastic	407,45	325,90

Ethylenediamine tetracetic acid tetrasodium salt tetrahydrate (EDTA-Na₄ · 4 H₂O)

≥99 %, p.a.

Danger H302-H318

Art. No.	Pack Qty.	Pack.	€	€
CP87.1	250 g	plastic	38,20	30,50
CP87.2	500 g	plastic	67,65	54,05
CP87.3	1 kg	plastic	117,20	93,70
CP87.4	5 kg	plastic	493,45	394,70

Ethylenediamine tetracetic acid tripotassium salt dihydrate (EDTA-K₃ · 2 H₂O)

≥99 %

Warning H332-H373

Art. No.	Pack Qty.	Pack.	€	€
1409.1	100 g	plastic	37,55	29,95
1409.2	250 g	plastic	69,80	55,75
1409.3	1 kg	plastic	209,65	167,70
1409.4	5 kg	plastic	822,40	657,90

Nitrilotriacetic acid

≥98 %, p.a., ACS

Warning H319-H351

Art. No.	Pack Qty.	Pack.	€	€
4384.1	100 g	plastic	85,90	68,65



► You can find more [Complexing Agents](#) in our range

Indicators and Dyes

-20%

Product name	Purity	General application	Art. No.	Pack Qty.	€	€
8-Anilino-naphthalene-1-sulfonic acid	≥95 %	Fluorescent dye for protein staining	20C4.1	1 g	21,40	17,05
			20C4.2	5 g	49,35	39,45
			20C4.3	10 g	88,05	70,40
Brown HT (C.I. 20285)	extra pure	Temperature and light resistant azo dye	1XTK.1	10 g	22,05	17,60
			1XTK.2	25 g	44,00	35,15
			1XTK.3	100 g	99,90	79,85
Copper phthalocyanine	≥98 %	Temperature and light resistant blue dye	1XP9.1	5 g	16,70	13,30
			1XP9.2	25 g	70,45	56,30
			1XTN.1	10 g	22,05	17,60
Orange yellow (C.I. 15985)	extra pure	Acid and light resistant azo dye	1XTN.2	25 g	44,00	35,15
			1XTN.3	100 g	99,90	79,85
			1XTP.1	10 g	21,40	17,05
Patent blue V calcium salt (C.I. 42051)	extra pure	Indicator pH	1XTP.2	25 g	42,90	34,25
			1XTP.3	100 g	96,65	77,25
			1XTT.1	10 g	21,40	17,05
Patent blue V sodium salt (C.I. 42051:2)	extra pure	Indicator pH	1XTT.2	25 g	42,90	34,25
			1XTT.3	100 g	96,65	77,25
			1XTX.1	10 g	21,40	17,05
Ponceau 4R (C.I. 16255)	extra pure	Acid-, alkali-, heat- and light-resistant azo dye; alternative for cochineal and carmine	1XTX.2	25 g	45,05	36,00
			1XTX.3	100 g	99,90	79,85
			1T4H.1	10 g	24,20	19,35
Pyranine (C. I. 59040)	pure	Fluorescent pyrene dye	1T4H.2	25 g	49,35	39,45
			1T4H.3	100 g	145,15	116,10
			1XTL.1	10 g	22,05	17,60
Quinoline yellow (C.I. 47005)	extra pure	Yellow quinophthalone dye	1XTL.2	25 g	44,00	35,15
			1XTL.3	100 g	99,90	79,85
			1T4K.1	10 g	21,40	17,05
Sudan Blue II (C. I. 61554)	pure	Fat-soluble anthraquinone dye	1T4K.2	25 g	44,65	35,65
			1T4K.3	100 g	145,15	116,10
			1T4L.1	10 g	21,40	17,05
Sudan Yellow G (C. I. 12700)	pure	Fat-soluble azo dye	1T4L.2	25 g	44,65	35,65
			1T4L.3	100 g	145,15	116,10

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

Indicator Solutions - ready to use

ready-to-use

-20%

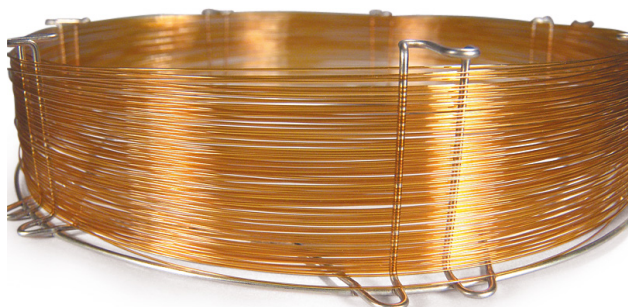
Product name	Purity	General application	Art. No.	Pack Qty.	€	€
o-Cresolphthaleine indicator solution	0,1 % in Ethanol, denatured	Indicator pH 8.2-9.8, alternative for Phenolphthaleine	1LAE.1	250 ml	91,30	72,95
Methyl orange indicator solution	0,1 % in water	Indicator pH 3.2-4.4	T119.1	500 ml	25,70	20,50
Phenolphthalein indicator solution	0,1 % in ethanol 90 %, denatured	Indicator pH 8.0-10.0	8145.1	250 ml	25,30	20,20
			8145.2	500 ml	98,20	30,50
Phenolphthalein indicator solution	1 % in ethanol 90 %, denatured	Indicator pH 8.0-10.0	K034.1	250 ml	27,45	21,90
			K034.2	500 ml	98,60	30,85
			K034.3	1 l	56,45	45,15
Thymolphthalein indicator solution	0,1 % in ethanol, denatured	Indicator pH 8.8-10.5; alternative for phenolphthaleine	8152.1	500 ml	61,20	48,90


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



GC Columns

-10%



Made in Germany 

GC capillary column ROTI®Cap-1 MS

non-polar, developed and manufactured in Germany

Column length (m)	Ø internal (mm)	Film thickness (µm)	Art. No.	Pack Qty.	€	€
12	0.20	0.35	6242.1	1 unit(s)	289,20	260,25
15	0.25	0.25	6243.1	1 unit(s)	342,95	308,60
25	0.20	0.20	6244.1	1 unit(s)	553,65	498,25
30	0.25	0.25	CN14.1	1 unit(s)	553,65	498,25
30	0.32	0.25	1381.1	1 unit(s)	585,90	527,25
50	0.20	0.20	6246.1	1 unit(s)	901,95	811,70
60	0.25	0.25	1382.1	1 unit(s)	951,40	856,20
60	0.32	0.25	6250.1	1 unit(s)	1.052,45	947,15

GC capillary column ROTI®Cap-WAX

polar, developed and manufactured in Germany

Column length (m)	Ø internal (mm)	Film thickness (µm)	Art. No.	Pack Qty.	€	€
25	0.25	0.25	1531.1	1 unit(s)	478,40	430,50
25	0.32	0.25	1545.1	1 unit(s)	510,65	459,55
25	0.32	0.50	1546.1	1 unit(s)	510,65	459,55
25	0.53	1.00	6386.1	1 unit(s)	591,25	532,10
30	0.25	0.25	CN12.1	1 unit(s)	478,40	430,50
30	0.32	0.25	1618.1	1 unit(s)	510,65	459,55
30	0.32	0.50	1228.1	1 unit(s)	510,65	459,55
30	0.53	1.00	1651.1	1 unit(s)	591,25	532,10
30	0.53	2.00	1877.1	1 unit(s)	591,25	532,10
50	0.25	0.25	1882.1	1 unit(s)	794,45	714,95
50	0.32	0.25	1918.1	1 unit(s)	858,95	773,00
50	0.32	0.50	6387.1	1 unit(s)	858,95	773,00
60	0.25	0.25	1925.1	1 unit(s)	826,70	744,00
60	0.32	0.25	1945.1	1 unit(s)	908,40	817,50
60	0.32	0.50	6388.1	1 unit(s)	908,40	817,50

GC capillary column ROTI®Cap-5 MS

non-polar, developed and manufactured in Germany

Column length (m)	Ø internal (mm)	Film thickness (µm)	Art. No.	Pack Qty.	€	€
12	0.20	0.20	6362.1	1 unit(s)	289,20	260,25
12	0.20	0.35	6363.1	1 unit(s)	289,20	260,25
15	0.25	0.25	6364.1	1 unit(s)	342,95	308,60
25	0.20	0.20	6369.1	1 unit(s)	553,65	498,25
25	0.20	0.35	6371.1	1 unit(s)	553,65	498,25
25	0.32	1.00	6372.1	1 unit(s)	585,90	527,25
30	0.25	0.25	CN15.1	1 unit(s)	553,65	498,25
30	0.25	0.50	1438.1	1 unit(s)	553,65	498,25
30	0.25	1.00	1439.1	1 unit(s)	553,65	498,25
30	0.32	0.25	1478.1	1 unit(s)	585,90	527,25
30	0.32	0.50	1492.1	1 unit(s)	585,90	527,25
50	0.20	0.20	6373.1	1 unit(s)	901,95	811,70
50	0.20	0.35	6380.1	1 unit(s)	901,95	811,70
50	0.32	1.00	6381.1	1 unit(s)	977,20	879,45
60	0.25	0.25	1509.1	1 unit(s)	951,40	856,20
60	0.25	0.50	1519.1	1 unit(s)	951,40	856,20
60	0.25	1.00	6727.1	1 unit(s)	951,40	856,20
60	0.32	1.00	6384.1	1 unit(s)	1.052,45	947,15

GC capillary column ROTI®Cap-FFAP

polar, developed and manufactured in Germany

Column length (m)	Ø internal (mm)	Film thickness (µm)	Art. No.	Pack Qty.	€	€
10	0.10	0.10	6390.1	1 unit(s)	267,70	240,90
25	0.25	0.25	1828.1	1 unit(s)	478,40	430,50
25	0.32	0.25	6391.1	1 unit(s)	510,65	459,55
25	0.32	0.50	1830.1	1 unit(s)	510,65	459,55
25	0.53	1.00	1836.1	1 unit(s)	591,25	532,10
30	0.25	0.25	CN13.1	1 unit(s)	478,40	430,50
30	0.32	0.25	1229.1	1 unit(s)	510,65	459,55
30	0.32	0.50	1854.1	1 unit(s)	510,65	459,55
30	0.53	0.50	1856.1	1 unit(s)	591,25	532,10
50	0.25	0.25	1858.1	1 unit(s)	794,45	714,95
50	0.32	0.50	6392.1	1 unit(s)	858,95	773,00
60	0.25	0.25	1864.1	1 unit(s)	826,70	744,00
60	0.32	0.25	1860.1	1 unit(s)	858,95	773,00
60	0.32	0.25	1866.1	1 unit(s)	908,40	817,50

Thin Layer Chromatography

-20%

ROTI®ChromaPlate – TLC Plattes by Carl ROTH

TLC Plates ROTI®ChromaPlate with Standard Silica Gel 60

Optimum adhesion of silica gel to the plate by using a highly resistant polymer-based binder (resistant to water and organic solvents and dyeing reagents).

- Specific surface: approx. 500 m²/g
- Medium pore width: 60 Å
- Specific pore volume: 0,75 ml/g
- Particle size: 5–17 µm

Properties:

- Reproducibly good separation performance due to complete wettability with organic and aqueous solvents
- Mechanical cutting without cracks or chipping of silica gel



TLC Plates ROTI®ChromaPlate Alu 60 UV

Material: aluminium with silica gel 60, with fluorescence indicator.

Plate format (cm)	Layer thickness (mm)	Pack.	Art. No.	Pack Qty.	€	€
4 x 8	0.2		1A19.1	40 unit(s)	30,65	24,50
4 x 8	0.2	Big Pack, 10 x 40 units	1A19.2	400 unit(s)	284,90	227,90
20 x 20	0.2		1A18.1	20 unit(s)	102,05	81,55

TLC Plates ROTI®ChromaPlate Poly 60 UV

Material: polyester with silica gel 60, with fluorescence indicator.

Plate format (cm)	Layer thickness (mm)	Pack.	Art. No.	Pack Qty.	€	€
4 x 8	0.2		1A17.1	40 unit(s)	30,65	24,50
4 x 8	0.2	Big Pack, 10 x 40 units	1A17.2	400 unit(s)	284,90	227,90
20 x 20	0.2		1A16.1	20 unit(s)	102,05	81,55

Only at Carl ROTH:
-20%

Ruler ROTICHROM® for TLC plates

Material: aluminium, surface anodised on all sides, imprint by sub-anodising resistant to solvents.

For sample application and evaluation of thin layer chromatography.

A special printing process (sub-anodised printing), which is only used for anodised aluminium, means that the print is smudge- and scratch-proof and resistant to oil and solvents. Even finger sweat cannot harm the print for years.

Designation	Art. No.	Pack Qty.	€	€
Ruler	20L8.1	1 unit(s)	16,70	13,30



► You can find running agents and staining solutions in our [Webshop](#)



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Price Hit!

Valid from 1 October to 31 December 2024

Further special prices: see current Chemicals-Brochure!

-30%

Silica Gels with Indicator

Silica gels protect moisture sensitive goods or chemicals during storage and transport. They are suitable for drying virtually all gases and solids.

Silica gels have a broad spectrum of application in the laboratory and in technical and industrial sectors.

- Patented, organic humidity indicator – **heavy metal free**
- Reversible colour change



We recommend activating silica gels before using it for the first time.

Product name	Purity	Regeneration	Pack.	Art. No.	Pack Qty.	€	€
Silica gel blue	2–4 mm, with indicator, beads	80–100 °C, approx. 2-4 hours	plastic	2440.1	500 g	22,05	15,40
				2440.2	1 kg	36,45	25,45
				2440.3	2.5 kg	73,00	51,05
				2440.4	10 kg	241,90	169,30
Silica gel yellow/blue	2.5–6 mm, with indicator, fractured	120 °C, approx. 4 hours	plastic	3650.1	500 g	27,45	19,15
				3650.2	1 kg	47,85	33,45
				3650.3	2.5 kg	99,90	69,85
				3650.4	10 kg	327,90	229,50
Silica gel orange	2–5 mm, with indicator, beads	130 °C, approx. 4 hours	plastic	P077.4	500 g	34,30	23,95
				P077.1	1 kg	57,95	40,50
				P077.2	2.5 kg	117,20	82,00
				P077.3	10 kg	364,45	255,10
Silica gel orange/green	2–5 mm, with indicator, beads	110 °C, approx. 3–4 hours	plastic	1779.1	500 g	25,70	17,95
				1779.2	1 kg	44,65	31,20
				1779.3	2.5 kg	89,15	62,35
				1779.4	10 kg	278,45	194,90
Silica gel red/yellow	1–3 mm, with indicator, beads	120 °C, approx. 4 hours	plastic	3955.1	500 g	25,70	17,95
				3955.2	1 kg	44,65	31,20
				3955.3	2.5 kg	89,15	62,35
				3955.4	10 kg	278,45	194,90
	3–6 mm, with indicator, beads	120 °C, approx. 4 hours	plastic	4111.1	500 g	22,05	15,40
				4111.2	1 kg	36,45	25,45
				4111.3	2.5 kg	73,00	51,05
				4111.4	10 kg	241,90	169,30

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