

CC(C)(C)CC(C)(C)c1ccc(OCCO)nH
 $n = 9-10$

 Danger H302-H318-H411

Art. No.	Pack Qty.	Pack.	€
3051.3	250 ml	plastic	18,20
3051.4	500 ml	plastic	24,20
3051.2	1 l	plastic	33,25
3051.1	10 l	plastic	209,55

Art. No.	Pack Qty.	Pack.	€	€
9975.1	100 ml	glass	10,20	12,65
9975.2	500 ml	glass	40,35	28,20
9975.3	1 l	plastic	53,65	37,50
9975.4	2.5 l	plastic	96,65	67,60
9975.5	10 l	plastic	278,45	194,90

 Danger H302-H318

Art. No.	Pack Qty.	Pack.	€	€
0982.1	100 ml	glass	17,10	11,90
0982.2	500 ml	glass	34,30	23,95
0982.3	1 l	plastic	53,65	37,50
0982.4	2.5 l	plastic	96,65	67,60
0982.5	10 l	plastic	278,45	194,90

Valid from 1 October to 31 December 2020

PEPTIPURE® – Our Brand for Peptide Synthesis

Peptide synthesis reagents must meet very high requirements to ensure that no by-products are produced during peptide synthesis and that very high yields can be achieved. Under the brand name PEPTIPURE® you will find all reagents that are especially suitable for peptide synthesis.

-30 %

Protected Amino Acids in PEPTIPURE® Quality



Arginine

Product name	Brand/Purity	Alternative Name	Art. No.	Pack Qty.	€	€
Boc-L-Arginine hydrochloride monohydrate	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Arg-OH	6914.1	5 g	30,65	21,45
			6914.2	25 g	81,60	56,85
			6914.3	100 g	238,55	166,95
Fmoc-L-Arginine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Arg-OH	6896.1	5 g	33,90	23,50
			6896.2	25 g	131,05	91,70
Fmoc-L-Arginine-(Pbf)	PEPTIPURE® ≥85 %, for biochemistry	Fmoc-L-Arg-(Pbf)-OH	8833.1	5 g	41,40	28,95
			8833.2	25 g	152,55	106,75
			8833.3	100 g	482,70	337,85
Z-L-Arginine	PEPTIPURE® ≥98,5 %, for biochemistry	Cbz-L-Arginine	1914.1	5 g	17,10	11,90
			1914.2	25 g	41,85	29,20
			1914.3	100 g	116,65	81,65



Phenylalanine

Product name	Brand/Purity	Alternative Name	Art. No.	Pack Qty.	€	€
Boc-L-Phenylalanine	PEPTIPURE® ≥99 %, for biochemistry	Boc-L-Phe-OH	6931.1	5 g	12,40	8,65
			6931.2	25 g	33,25	23,20
			6931.3	100 g	104,20	72,85
Fmoc-L-4-Azidophenylalanine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Phe-(4-N ₃)-OH	7485.1	100 mg	56,90	39,65
			7485.2	250 mg	122,05	85,40
Fmoc-L-Phenylalanine	PEPTIPURE® ≥99 %, for biochemistry	Fmoc-L-Phe-OH	6658.1	10 g	18,20	12,65
			6658.2	50 g	46,15	32,10
			6658.3	250 g	176,20	123,30
Z-L-Phenylalanine	PEPTIPURE® ≥98 %, for biochemistry	Z-L-Phe-OH	1865.1	5 g	23,15	16,00
			1865.2	25 g	57,95	40,50
			1865.3	100 g	150,40	105,20



Lysine

Product name	Brand/Purity	Alternative Name	Art. No.	Pack Qty.	€	€
Boc-L-Lysine	PEPTIPURE® ≥98 %, for biochemistry	Boc-L-Lys-OH	6926.1	1 g	20,35	14,15
			6926.2	5 g	64,40	45,00
			6926.3	10 g	115,60	80,85
Fmoc-L-Lysine	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Lys-OH	6900.1	1 g	18,20	12,65
			6900.2	5 g	56,90	39,65
			6900.3	10 g	100,55	70,35
Fmoc-L-Lysine-(Boc)	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Lys-(Boc)-OH	8840.1	5 g	20,35	14,15
			8840.2	25 g	62,25	43,50
			8840.3	100 g	189,10	132,10
Z-L-Lysine	PEPTIPURE® ≥98 %, for biochemistry	Z-L-Lys-OH	1907.1	1 g	23,15	16,00
			1907.2	5 g	69,80	48,80
			1907.3	10 g	116,65	81,65



Tryptophan

Product name	Brand/Purity	Alternative Name	Art. No.	Pack Qty.	€	€
Boc-L-Tryptophan	PEPTIPURE® ≥95 %, for biochemistry	Boc-L-Trp-OH	6945.1	5 g	12,40	8,65
			6945.2	25 g	33,25	23,20
			6945.3	100 g	104,20	72,85
Fmoc-L-Tryptophan	PEPTIPURE® ≥98 %, for biochemistry	Fmoc-L-Trp-OH	6903.1	5 g	19,90	13,90
			6903.2	25 g	59,05	41,25
			6903.3	100 g	199,85	139,60
Fmoc-L-Tryptophan-(Boc)	PEPTIPURE® ≥97 %, for biochemistry	Fmoc-L-Trp-(Boc)-OH	9668.1	5 g	31,10	21,70
			9668.2	25 g	103,75	72,60
			9668.3	100 g	326,70	228,65

Resins in PEPTIPURE® Quality

Product name	Brand/Purity	Art. No.	Pack Qty.	€	€
2-Chlorotrityl chloride resin	PEPTIPURE® 100–200 mesh, 1 % DVB	7405.1	5 g	82,70	57,80
		7405.2	25 g	317,15	221,95
Rink amide resin	PEPTIPURE® 100–200 mesh, 1 % DVB	7515.1	1 g	37,10	25,65
		7515.2	5 g	153,65	107,35
Sieber amide resin	PEPTIPURE® 100–200 mesh	7408.1	1 g	96,65	67,60
		7408.2	5 g	389,70	272,75
Wang resin	PEPTIPURE® 100–200 mesh, 1 % DVB	7506.1	1 g	18,20	12,65
		7506.2	5 g	42,50	29,70
		7506.3	25 g	181,70	127,15



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



Coupling Reagents in PEPTIPURE® Quality

-25 %

Alternative Name	Brand/Purity	CAS No.	Art. No.	Pack Qty.	€	€
CDI	PEPTIPURE® ≥98 %	530-62-1	6992.1	10 g	28,50	21,30
			6992.2	25 g	52,60	39,40
			6992.3	100 g	121,40	91,00
			6992.4	500 g	461,20	345,85
DIC	PEPTIPURE® ≥99 %	693-13-0	6981.1	5 ml	21,00	15,70
			6981.2	25 ml	57,55	42,85
			6981.3	100 ml	159,65	119,70
			6981.4	500 ml	547,20	410,35
EDC-HCl	PEPTIPURE® ≥99 %	25952-53-8	2156.1	5 g	21,40	16,00
			2156.2	25 g	58,60	43,90
			2156.3	100 g	168,25	126,15
			2156.5	1 kg	1.159,95	869,90
HATU	PEPTIPURE® ≥99 %	148893-10-1	2131.1	5 g	56,45	42,30
			2131.2	25 g	214,50	160,80
PyBOP®	PEPTIPURE® ≥98,5 %	128625-52-5	2178.1	5 g	26,80	20,05
			2178.2	25 g	79,45	59,55
			2178.3	100 g	293,85	175,10
			2178.5	1 kg	1.536,20	1.151,30
TBTU	PEPTIPURE® ≥99 %	125700-67-6	2140.1	5 g	17,75	13,25
			2140.2	25 g	40,35	29,95
			2140.3	100 g	110,65	82,65
			2140.5	1 kg	558,90	419,10

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



Reagents in PEPTIPURE® Quality

-20 %

Dichloromethane

PEPTIPURE® ≥99,9 %, for peptide synthesis

⚠️ ⚠️ Warning H315-H319-H336-H351

Art. No.	Pack Qty.	Pack.	€	€
P089.1	2.5 l	glass	66,55	53,20

9-Fluorenylmethoxycarbonyl chloride (Fmoc-Cl)

PEPTIPURE® ≥98 %

⚠️ ⚠️ Danger H302+H332-H314

Art. No.	Pack Qty.	Pack.	€	€
2201.1	5 g	glass	20,35	16,00
2201.2	25 g	glass	46,15	36,85
2201.3	100 g	glass	136,00	108,75

Piperidine

PEPTIPURE® ≥99,5 %, for peptide synthesis

⚠️ ⚠️ ⚠️ Danger

H225-H302-H311+H331-H314

Art. No.	Pack Qty.	Pack.	€	€
A122.1	200 ml	glass	34,30	27,40
A122.2	500 ml	glass	62,90	50,30
A122.3	1 l	glass	103,75	82,95
A122.4	2.5 l	glass	177,40	141,90

N,N-Diisopropylethylamine (DIPEA)

PEPTIPURE® ≥99,5 %, for peptide synthesis

⚠️ ⚠️ ⚠️ Danger

H225-H302-H318-H331-H335

Art. No.	Pack Qty.	Pack.	€	€
2474.1	100 ml	glass	25,30	20,20
2474.2	250 ml	glass	45,05	36,00
2474.3	1 l	glass	150,40	120,25
2474.4	2.5 l	glass	306,40	245,10

1,1,1,3,3,3-Hexafluoro-2-propanol (HFIP)

PEPTIPURE® ≥99 %, for peptide synthesis

⚠️ ⚠️ ⚠️ Danger H290-H302+H332-H314

Art. No.	Pack Qty.	Pack.	€	€
2473.1	10 ml	glass	41,40	33,10
2473.2	25 ml	glass	87,00	69,55
2473.3	100 ml	glass	310,70	248,20

Phenyl isothiocyanate

PEPTIPURE® ≥99 %

⚠️ ⚠️ ⚠️ Danger H301+H311+H331-H314

Art. No.	Pack Qty.	Pack.	€	€
7296.1	25 ml	glass	23,15	18,15
7296.2	100 ml	glass	52,60	41,80
7296.3	500 ml	glass	220,95	176,70

N,N-Dimethylformamide (DMF)

PEPTIPURE® ≥99,8 %, for peptide synthesis

⚠️ ⚠️ ⚠️ Danger

H226-H312+H332-H319-H360D

Art. No.	Pack Qty.	Pack.	€	€
A529.3	500 ml	glass	40,35	32,25
A529.1	2.5 l	glass	107,40	85,85
A529.7	10 l	plastic	102,25	145,75
A529.2	25 l	plastic	346,70	277,35

N-Methyl-2-pyrrolidone (NMP)

PEPTIPURE® ≥99,8 %, for peptide synthesis

⚠️ ⚠️ ⚠️ Danger H315-H319-H335-H360D

Art. No.	Pack Qty.	Pack.	€	€
P052.1	2.5 l	glass	122,45	97,70

Trifluoroacetic acid (TFA)

PEPTIPURE® ≥99,9 %, for peptide synthesis

⚠️ ⚠️ ⚠️ Danger H290-H314-H332-H412

Art. No.	Pack Qty.	Pack.	€	€
P088.1	100 ml	glass	66,55	53,20
P088.2	500 ml	glass	192,45	153,60
P088.3	1 l	glass	332,20	265,40

Carbohydrates

-25 %**L(+)-Arabinose**

≥99 %, for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
5118.1	50 g	plastic	43,55	32,60
5118.2	100 g	plastic	68,30	51,15
5118.3	250 g	plastic	134,30	100,65
5118.4	500 g	plastic	206,95	155,15
5118.5	1 kg	plastic	310,70	233,00

D(+)-Cellobiose

≥98 %, for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
5840.1	5 g	plastic	19,25	14,40
5840.3	25 g	plastic	59,70	44,70
5840.2	100 g	plastic	213,40	160,00

Dextrin

extra pure, yellow

Art. No.	Pack Qty.	Pack.	€	€
6777.3	500 g	plastic	12,80	9,55
6777.1	1 kg	plastic	18,20	13,60
6777.4	2.5 kg	plastic	35,40	26,50
6777.2	5 kg	plastic	65,05	48,75

D(-)-Fructose

≥99,5 %, for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
4981.1	500 g	plastic	17,10	12,75
4981.4	1 kg	plastic	26,80	20,05
4981.2	2.5 kg	plastic	55,80	41,80
4981.5	5 kg	plastic	73,65	55,20
4981.6	10 kg	plastic	96,65	72,45
4981.3	25 kg	plastic	198,80	149,05

D(+)-Galactose

≥98 %, for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
4987.1	100 g	plastic	20,50	21,30
4987.2	500 g	plastic	97,30	72,90
4987.3	1 kg	plastic	166,55	124,55
4987.7	5 kg	plastic	762,20	571,60

D(+)-Glucose monohydrate
for microbiology

Art. No.	Pack Qty.	Pack.	€	€
6887.1	1 kg	plastic	19,90	14,85
6887.2	2.5 kg	plastic	42,50	31,80
6887.3	5 kg	plastic	68,30	51,15
6887.5	25 kg	plastic	184,40	138,25

α-Lactose monohydrate

Ph.Eur., for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
8921.1	1 kg	plastic	23,55	17,60
8921.2	5 kg	plastic	84,40	63,25
8921.3	10 kg	plastic	143,95	107,90
8921.5	25 kg	plastic	332,20	249,10

D(+)-Maltose monohydrate

≥92 %, for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
8951.1	100 g	plastic	23,15	17,05
8951.2	250 g	plastic	39,25	29,40
8951.3	500 g	plastic	70,45	52,55
8951.4	1 kg	plastic	105,90	79,35

D(+)-Raffinose pentahydrate

≥98 %, for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
5241.1	10 g	plastic	23,55	17,60
5241.4	25 g	plastic	44,00	32,95
5241.2	50 g	plastic	76,25	56,85
5241.3	100 g	plastic	122,45	91,80
5241.5	250 g	plastic	213,95	160,40
5241.6	500 g	plastic	353,70	265,25

L(+)-Rhamnose monohydrate

≥98 %, for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
4655.1	5 g	glass	33,25	24,60
4655.2	25 g	plastic	89,15	66,50

D(-)-Ribose

≥98 %, for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
7168.1	10 g	plastic	21,00	15,70
7168.3	25 g	plastic	41,85	31,05
7168.2	100 g	plastic	107,40	80,50

D(+)-Saccharose

≥99,5 %, Ph.Eur.

Art. No.	Pack Qty.	Pack.	€	€
4661.1	1 kg	plastic	20,35	14,90
4661.2	5 kg	plastic	83,35	62,20
4661.4	10 kg	plastic	105,90	79,35
4661.3	50 kg	card-board	330,60	247,90

D-Sorbitol

≥98 %, for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
6213.1	1 kg	plastic	26,80	20,05
6213.2	5 kg	plastic	74,75	55,75
6213.3	10 kg	plastic	135,35	101,45
6213.7	25 kg	plastic	267,70	200,75

L(-)-Sorbitose

≥98 %, for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
4028.2	25 g	plastic	49,35	36,95
4028.3	50 g	plastic	84,85	63,30
4028.1	100 g	plastic	122,45	91,80

D(+)-Trehalose dihydrate

≥98 %, for biochemistry

Art. No.	Pack Qty.	Pack.	€	€
5151.1	5 g	plastic	14,55	10,60
5151.2	25 g	plastic	40,35	29,95
5151.4	50 g	plastic	67,20	50,35
5151.3	250 g	plastic	310,70	233,00

Xylan

from beechwood

Art. No.	Pack Qty.	Pack.	€	€
4414.2	10 g	plastic	28,95	21,35
4414.1	50 g	plastic	61,85	46,10
4414.3	100 g	plastic	105,90	79,35
4414.4	250 g	plastic	218,60	164,05



Albumins / BSA

Solutions

-30 %


S

ready-to-use

TSE-/BSE-free

Product name	Purity	General application	Instructions for use	Art. No.	Pack Qty.	€	€
Albumin solution 20 %	20 %, sterile, for biochemistry and cell biology	Wide range of applications, e.g. as protein standard or blocking reagent.	Heatshock albumin	9400.1	20 ml	11,30	7,90
				9400.2	100 ml	44,65	31,05
				9400.3	500 ml	185,90	129,95
Albumin solution 30 %	30 %, sterile, for biochemistry and cell biology	Wide range of applications, e.g. as protein standard or blocking reagent.	Heatshock albumin	9401.1	20 ml	15,60	10,90
				9401.2	100 ml	62,90	44,00
				9401.3	500 ml	252,65	176,80
Albumin solution 30 %, with azide, US-Origin	30 %, sterile, with azide, US-Origin, for biochemistry	Suitable as blocking or stabilising reagent in all general assays.	Heatshock albumin. Recommended if BSA with US-Origin is required.	9414.1	100 ml	103,10	71,90
				9414.2	500 ml	357,90	250,35

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

Lyophilisates

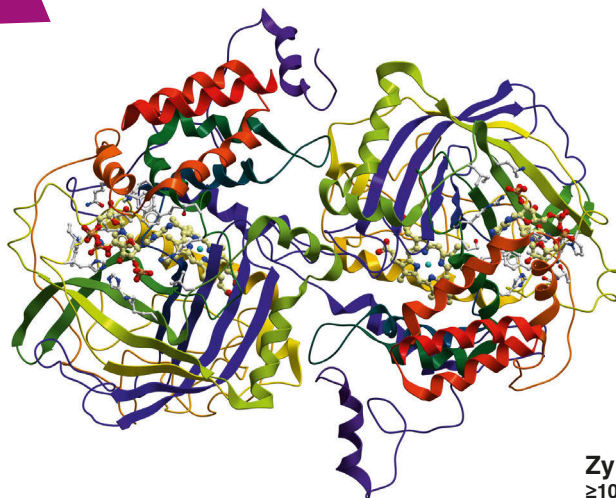
-25 %


TSE-/BSE-free

Product name	Purity	General application	Instructions for use	Art. No.	Pack Qty.	€	€
Albumin Fraction V	≥98 %, for biochemistry and molecular biology	Wide range of applications, e.g. as protein standard or blocking reagent.	Cohn/ethanol lyophilisate	8076.1	10 g	28,95	20,20
				8076.2	50 g	90,85	63,30
				8076.4	200 g	310,70	217,45
				8076.3	500 g	676,20	473,30
Albumin Fraction V, US-Origin	≥98 %, for biochemistry and molecular biology	Suitable as blocking or stabilising reagent in all general assays.	Cohn/ethanol lyophilisate. Recommended if BSA with US-Origin is required.	8076.5	1 kg	1.170,70	819,45
				3854.1	10 g	32,15	24,05
				3854.2	50 g	97,75	72,95
				3854.3	200 g	332,20	249,10
				3854.4	500 g	719,20	539,35
Albumin, fatty acid-free, US-Origin	≥98 %, fatty acid-free, for biochemistry and molecular biology	Suitable as blocking or stabilising reagent in all fatty acid-sensitive assays.	Heatshock albumin. Recommended if BSA with US-Origin is required.	3854.5	1 kg	1.202,95	902,15
				9638.1	1 g	19,90	14,85
				9638.2	10 g	104,20	78,10
				9638.3	50 g	402,60	301,90
Albumin Fraction V, biotin-free	≥98 %, biotin-free, for biochemistry and molecular biology	Excellent as blocking and stabilising reagent in all biotin/streptavidin-mediated detection systems.	Cohn/ethanol lyophilisate	9638.4	100 g	633,20	474,85
				0163.1	10 g	35,40	26,50
				0163.2	50 g	111,30	83,40
				0163.4	200 g	386,50	289,80
Albumin Fraction V, endotoxin-tested	>98 %, endotoxin-tested, for cell biology	With low endotoxin content. Recommended for culturing of cell lines.	Cohn/ethanol lyophilisate	0163.3	500 g	837,45	628,05
				CP84.1	10 g	37,10	27,75
				CP84.2	50 g	114,95	85,85
Albumin Fraction V, fatty acid-free	≥98 %, fatty acid-free, for biochemistry and molecular biology	Excellent when working with membrane-associated proteins.	Cohn/ethanol lyophilisate	CP84.3	500 g	891,20	668,35
				0052.1	1 g	19,25	14,40
				0052.2	10 g	102,05	76,20
Albumin, IgG free	>98 %, IgG-free, for biochemistry and molecular biology	Recommended as blocking and stabilising reagent in all antibody-mediated detection systems.	Heatshock albumin	0052.3	50 g	396,70	297,50
				3737.1	10 g	59,05	43,95
				3737.2	50 g	162,25	121,35
				3737.3	200 g	491,85	368,60
Albumin Fraction V, pH 5.2	>97 %, for protein analysis	Non-neutralized albumin. Suitable as protein standard or hapten carrier, recommended for use in ELISA and Western-Blotting.	Cohn/ethanol lyophilisate	3737.4	500 g	998,70	749,00
				2834.1	10 g	42,50	31,80
				2834.2	50 g	136,00	101,95
				2834.3	200 g	418,20	313,60
Albumin Fraction V, protease-free	≥98 %, protease-free, for protein analysis and molecular biology	For all sensitive enzymatic assays.	Cohn/ethanol lyophilisate	2834.4	500 g	858,95	644,15
				T844.1	10 g	56,90	42,60
				T844.2	50 g	133,20	99,85
				T844.4	200 g	428,95	321,65
				T844.3	500 g	901,95	676,40

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

Enzymes

-22 %**Chymotrypsin**

≥1 000 USP-U/mg, for biochemistry

Made from bovine pancreas.

Trypsin content below 1 %.

Storage temperature: -20 °C

Transport temperature: ambient temp.

Danger H315-H319-H334-H335

Art. No.	Pack Qty.	Pack.	€	€
0238.1	100 mg	glass	27,85	21,35
0238.2	500 mg	glass	57,55	44,80
0238.3	1 g	glass	95,15	74,05

Pepsin

≥2 000 FIP-U/g, for biochemistry

From porcine gastric mucosa.

For detection of trichina in meat.

Storage temperature: +4 °C

Danger H315-H319-H334-H335

Art. No.	Pack Qty.	Pack.	€	€
KK38.1	50 g	plastic	65,50	51,05
KK38.2	100 g	plastic	107,00	83,40
KK38.3	250 g	plastic	235,45	183,60
KK38.4	1 kg	plastic	869,70	678,20

Lysozyme

≥45 000 FIP U/mg, lyophilized

From chicken egg white, free from albumin.

Storage temperature: -20 °C

Transport temperature: ambient temp.

Danger H334

Art. No.	Pack Qty.	Pack.	€	€
8259.1	1 g	glass	28,95	20,20
8259.2	10 g	glass	177,40	124,15
8259.3	25 g	glass	332,20	232,50

Trypsin

5.000 USP-U/mg

Serine protease isolated from porcine pancreas, lyophilized.

Storage temperature: -20 °C

Transport temperature: ambient temp.

Danger H315-H319-H334-H335

Art. No.	Pack Qty.	Pack.	€	€
2193.1	100 mg	glass	31,10	24,15
2193.2	500 mg	glass	96,65	75,10

Zymolyase® 100T

≥100 U/mg, for biochemistry and molecular biology

For lysis of yeast cells.

Isolated from *Arthrobacter luteus*.

β-1,3-glucan laminaripentaohydrolase · Lyticase

Storage temperature: +4 °C

Transport temperature: cooled

Art. No.	Pack Qty.	Pack.	€	€
9329.1	100 mg	glass	299,95	233,90
9329.2	500 mg	glass	934,20	728,60

Zymolyase® 20T

≥20 U/mg, for biochemistry and molecular biology

For lysis of yeast cells.

Isolated from *Arthrobacter luteus*.

β-1,3-glucan laminaripentaohydrolase · Lyticase

Storage temperature: +4 °C

Transport temperature: cooled

Art. No.	Pack Qty.	Pack.	€	€
9324.1	100 mg	glass	82,70	64,45
9324.2	500 mg	glass	235,45	183,60
9324.3	1 g	glass	413,90	322,80

Inhibitors

-25 %**Aprotinin**

3,0 PEU/mg, for biochemistry

Inhibitor for inhibition of serin proteases, lyophilized and made of beef lung.

Art. No.	Pack Qty.	Pack.	€	€
A162.1	10 mg	glass	39,70	29,70
A162.2	50 mg	glass	116,65	87,45
A162.3	100 mg	glass	209,65	157,20
A162.4	500 mg	glass	805,20	603,85

Leupeptin hemisulphate

≥96,5 %, for biochemistry

Reversible inhibitor of serine- and cysteine proteases.

Art. No.	Pack Qty.	Pack.	€	€
CN33.1	10 mg	glass	48,95	36,40
CN33.2	25 mg	glass	101,60	76,15
CN33.3	50 mg	glass	181,60	136,15
CN33.4	100 mg	glass	332,20	249,10

Pepstatin A

≥98 %, for biochemistry

Inhibitor of acidic / aspartic proteases. Isolated from streptomycin and other actinomycetes.

Art. No.	Pack Qty.	Pack.	€	€
2936.1	5 mg	plastic	32,15	24,05
2936.2	25 mg	plastic	97,75	72,95
2936.3	100 mg	plastic	321,45	241,05

E-64

≥99 %, for biochemistry

Inhibitor of cysteine proteases.

Storage temperature: -20 °C

Transport temperature: ambient temp.

Art. No.	Pack Qty.	Pack.	€	€
2935.1	5 mg	plastic	95,60	66,85
2935.2	25 mg	plastic	339,60	237,45

Phenylmethyl sulphonyl fluoride

≥99 %, for biochemistry

PMSF

Irreversible inhibitor of serine- and thiol proteases. Reversible effect on cysteine proteases.

Danger H301-H314

Art. No.	Pack Qty.	Pack.	€	€
6367.4	348 mg	glass	14,95	11,15
6367.1	5 g	plastic	32,15	24,05
6367.2	25 g	plastic	107,40	80,50
6367.3	100 g	plastic	299,95	224,90

Radicalol

≥98 %, for biochemistry

Strong HSP90 inhibitor, macrolactone antibiotic.

Storage temperature: -20 °C

Transport temperature: ambient temp.

Danger H301-H315-H319-H335

Art. No.	Pack Qty.	Pack.	€	€
HN72.1	1 mg	glass	103,10	77,25
HN72.2	5 mg	glass	413,95	309,95
HN72.3	10 mg	glass	658,45	493,80



ROTI®Fair Reagents

-22%

High-pure reagents and buffer mixes in pouches or as tablets

A tablet or the contents of a sachet is simply dissolved in the appropriate amount of water – and the desired solution is ready. By adjusting the amount of water, the concentration can easily be varied and a higher concentrated stock solution, for example, can be prepared.

- **Easy to use** – simply dissolve the contents of a bag or tablet in water.
- **Time saving** – no need to weigh reagents or adjust pH.
- **Practical** – dry reagents for direct use eliminate the need to prepare stock solutions that have been stored for long periods.
- **Reliable** – our stringent quality control ensures high batch consistency.



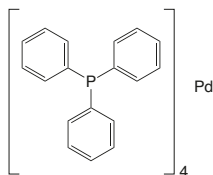
Product name	Buffer/solution	Use	Batch quantity	End conc.	pH value	Art. No.	Pack Qty.	€	€
ROTI®Fair 0.5M EDTA	Ethylenediamine tetraacetic acid solution	For preparation of bioanalytical solutions, anticoagulant	500 ml/pouch	0,5 M	8,0 ±0,05	1031.1	5 unit(s)	271,90	212,00
ROTI®Fair HBS	HEPES Buffered Saline	General buffer base and for calcium phosphate mediated transfection	500 ml/tablet	1 M	7,4 ±0,05	1033.1	12 unit(s)	67,20	52,40
						1033.2	100 unit(s)	285,45	222,40
ROTI®Fair 3M KCl	Potassium chloride solution	For preparation of salt solutions and buffer concoctions	1000 ml/pouch	3 M		1035.1	5 unit(s)	156,85	122,30
ROTI®Fair 0.9 % NaCl	Sodium chloride solution	For preparation of salt solutions and buffer concoctions	100 ml/tablet	0,9 %		1053.1	100 unit(s)	58,60	45,65
			1000 ml/tablet	0,9 %		1067.1	10 unit(s)	52,60	40,70
						1067.2	100 unit(s)	126,35	98,50
ROTI®Fair PBS 7.2 -30%	Phosphate Buffered Saline	General solution for assays in molecular biology and biochemistry	1000 ml/tablet	1x	7,2 ±0,05	1106.1	10 unit(s)	80,10	55,75
						1106.2	100 unit(s)	381,65	267,10
ROTI®Fair PBS 7.4 -30%	Phosphate Buffered Saline	General solution for assays in molecular biology and biochemistry	100 ml/tablet	1x	7,4 ±0,05	1107.1	100 unit(s)	61,20	42,75
			200 ml/tablet	1x	7,4 ±0,05	1108.1	100 unit(s)	102,05	71,35
			500 ml/tablet	1x	7,4 ±0,05	1111.1	12 unit(s)	53,65	37,50
						1111.2	100 unit(s)	213,95	149,75
			1000 ml/tablet	1x	7,4 ±0,05	1112.1	10 unit(s)	79,05	55,30
						1112.2	100 unit(s)	381,65	267,10
			10 l/pouch	1x	7,4 ±0,05	1101.1	1 unit(s)	42,50	29,70
			50 l/pouch	1x	7,4 ±0,05	1103.1	1 unit(s)	131,05	91,70
ROTI®Fair 10x PBS 7.4 -30%	Phosphate Buffered Saline	General solution for assays in molecular biology and biochemistry	1000 ml/pouch	10x	7,4 ±0,05	1105.1	5 unit(s)	104,20	72,85
ROTI®Fair PBS potassium-free 7.4	Phosphate Buffered Saline, potassium-free	Potassium-free, general solution for assays in molecular biology and biochemistry	1000 ml/tablet	1x	7,4 ±0,05	1113.1	10 unit(s)	79,05	61,60
						1113.2	100 unit(s)	381,65	297,65
ROTI®Fair PBST 7.4	Phosphate Buffered Saline/ Tween	General solution for assays in molecular biology and biochemistry	500 ml/tablet	1x	7,4 ±0,05	1115.1	12 unit(s)	68,30	53,20
						1115.2	100 unit(s)	278,45	217,00
			1000 ml/tablet	1x	7,4 ±0,05	1116.1	10 unit(s)	89,15	69,50
						1116.2	100 unit(s)	428,95	334,50
ROTI®Fair pNPP 5 mg	pNPP (tablet), p-Nitrophenyl phosphate	Substrate solution for alkaline phosphatase	5 mg/tablet	1 mg/ml		1117.1	24 unit(s)	99,45	77,25
						1117.2	100 unit(s)	261,80	204,10
ROTI®Fair pNPP 20 mg			20 mg/tablet	1 mg/ml		1128.1	24 unit(s)	104,85	81,55
						1128.2	100 unit(s)	375,20	292,60
ROTI®Fair SDS 0.5g	Sodium dodecyl sulfate solution	Anionic detergent for preparation of bioanalytical solutions	0,5 g/tablet	variable		1156.1	50 unit(s)	50,45	39,25
ROTI®Fair TBS 7.6	Tris Buffered Saline	General solution for assays in molecular biology and biochemistry	500 ml/tablet	1x	7,6 ±0,05	1244.1	10 unit(s)	59,05	46,00
						1244.2	100 unit(s)	284,90	222,20
ROTI®Fair TBST 7.6	Tris Buffered Saline/Tween	General solution for assays in molecular biology and biochemistry	500 ml/tablet	1x	7,6 ±0,05	1248.1	10 unit(s)	73,65	57,40
						1248.2	100 unit(s)	360,15	280,90
ROTI®Fair 1M Tris 7.4	Tris solution	General solution for assays in molecular biology and biochemistry	1000 ml/pouch	1 M	7,4 ±0,05	1251.1	10 unit(s)	410,15	319,85
ROTI®Fair 1M Tris 8.0			1000 ml/pouch	1 M	8,0 ±0,05	1260.1	10 unit(s)	410,15	319,85

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

Organic Synthesis

-22 %

Catalysts


**Tetrakis(triphenylphosphine)
palladium(0)**
 ≥98 %

Catalyst

Art. No.	Pack Qty.	Pack.	€	€
0920.1	1 g	glass	37,55	27,80
0920.2	5 g	glass	138,70	104,00
0920.3	10 g	glass	256,95	192,65


Palladium on activated carbon
 10 % Pd/C with approx. 60 % water

Catalyst

⚠ Warning H315-H319

Art. No.	Pack Qty.	Pack.	€	€
1446.1	1 g	glass	23,15	17,05
1446.2	2.5 g	glass	46,80	35,05
1446.3	5 g	glass	81,60	61,15


Nickel-aluminum alloy
 50/50 % Ni/Al, for synthesis, powder

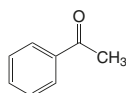
For the production of Raney® nickel.

⚠ ⚠ ⚠ **Danger**

H261-H317-H351-H372-H412

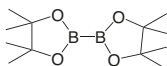
Art. No.	Pack Qty.	Pack.	€	€
0663.1	50 g	plastic	21,40	16,00
0663.2	250 g	plastic	81,60	61,15
0663.3	500 g	plastic	144,60	108,40

Reagents

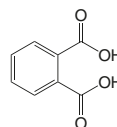

Acetophenone
 ≥98 %, for synthesis

⚠ Warning H302-H319

Art. No.	Pack Qty.	Pack.	€	€
0986.1	250 ml	glass	16,05	11,70
0986.2	1 l	glass	32,15	24,05
0986.3	2.5 l	glass	59,05	43,95
0986.4	5 l	plastic	96,65	72,45
0986.5	10 l	plastic	160,20	120,10

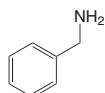

Bis(pinacolato)diboron
 ≥98 %

Art. No.	Pack Qty.	Pack.	€	€
1983.1	1 g	glass	21,40	16,00
1983.2	5 g	glass	34,30	25,65
1983.3	25 g	glass	113,85	85,35


Phthalic acid
 ≥99 %, p.a.

⚠ Warning H315-H319-H335

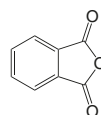
Art. No.	Pack Qty.	Pack.	€	€
3560.1	100 g	plastic	13,90	10,35
3560.2	250 g	plastic	21,40	16,00
3560.3	1 kg	plastic	59,05	43,95
3560.4	2.5 kg	plastic	107,40	80,50


Benzylamine
 ≥99 %, for synthesis
⚠ ⚠ **Danger** H302+H312-H314

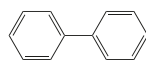
Art. No.	Pack Qty.	Pack.	€	€
3549.1	250 ml	glass	24,65	18,15
3549.2	1 l	glass	69,80	52,30
3549.3	2.5 l	glass	149,45	112,05


Diacetone alcohol
 SOLVAGREEN® ≥98 %, for synthesis
⚠ ⚠ **Warning** H226-H319

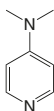
Art. No.	Pack Qty.	Pack.	€	€
3546.1	250 ml	glass	13,90	10,35
3546.2	1 l	glass	31,10	23,25
3546.3	2.5 l	glass	53,65	40,20


Phthalic anhydride
 ≥98 %, for synthesis
⚠ ⚠ ⚠ **Danger**
H302+H332-H315-H317-H318-H334-H335

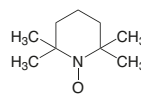
Art. No.	Pack Qty.	Pack.	€	€
3544.1	250 g	plastic	11,75	8,75
3544.2	1 kg	plastic	21,40	16,00
3544.3	2.5 kg	plastic	42,90	32,10


Biphenyl
 ≥99 %, for synthesis
⚠ ⚠ **Warning** H315-H319-H335-H410

Art. No.	Pack Qty.	Pack.	€	€
3216.1	250 g	plastic	12,80	9,55
3216.2	1 kg	plastic	32,15	24,05
3216.3	2.5 kg	plastic	64,40	48,25


4-(Dimethylamino)pyridine (DMAP)
 PEPTIPURE® ≥99 %
⚠ **Danger** H301-H310-H315-H319

Art. No.	Pack Qty.	Pack.	€	€
6988.1	5 g	glass	14,55	10,60
6988.2	25 g	glass	28,95	21,35
6988.3	100 g	glass	88,70	66,45
6988.4	500 g	glass	309,10	231,75


TEMPO
 ≥98 %, for synthesis
⚠ **Danger** H290-H314

Art. No.	Pack Qty.	Pack.	€	€
6801.1	1 g	glass	14,95	11,15
6801.2	5 g	glass	28,95	21,35
6801.3	25 g	glass	69,80	52,30



Salts for Analysis

-25 %

Ammonium chloride

≥99,7 %, p.a., Ultra Quality

Reagent for photography, buffer substance, molecularbiology, mixtures cryogens.

WGK 1

⚠ Warning H302-H319

Art. No.	Pack Qty.	Pack.	€	€
K298.1	500 g	plastic	24,20	18,10
K298.2	1 kg	plastic	40,35	29,95
K298.3	2.5 kg	plastic	62,90	47,10
K298.4	5 kg	plastic	83,75	62,75
K298.6	10 kg	plastic	142,45	106,80
K298.5	25 kg	plastic	278,45	208,80

Lithium chloride

≥99 %, p.a., Ultra Quality

For molecular biology: used for salt-precipitation of DNA. For use in heating and cooling baths.

WGK 1

⚠ Warning H302-H315-H319

Art. No.	Pack Qty.	Pack.	€	€
3739.1	250 g	plastic	53,25	39,65
3739.2	1 kg	plastic	159,65	114,90

Ammonium dimolybdate

≥99 %, p.a.

NEW

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
3246.1	100 g	plastic	24,65	18,15
3246.2	500 g	plastic	80,55	60,05
3246.3	1 kg	plastic	134,30	100,65

Lithium hexafluorophosphate

≥99,9 %, p.a.

NEW

UN 2923 · ADR 8 I · WGK 3

⚠ ⚠ ⚠ Danger H301-H314-H372

Art. No.	Pack Qty.	Pack.	€	€
2243.1	5 g	glass	32,15	24,05
2243.2	25 g	glass	117,20	87,85
2243.3	100 g	glass	359,70	265,25

Caesium chloride

≥99,999 %, p.a., Ultra Quality

Reagent for density gradient centrifugation.

WGK 1

⚠ Warning H361fd

Art. No.	Pack Qty.	Pack.	€	€
8627.4	10 g	Kunst.	24,20	18,10
8627.3	50 g	Kunst.	52,15	39,05
8627.1	100 g	Kunst.	87,00	64,20
8627.5	250 g	Kunst.	156,85	117,60
8627.2	1 kg	Kunst.	568,70	426,50

di-Potassium hydrogen phosphate

≥99 %, p.a., anhydrous

Buffer substance, molecular biology

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
P749.1	500 g	plastic	30,00	22,45
P749.2	1 kg	plastic	54,30	40,65
P749.3	2.5 kg	plastic	109,55	82,10
P749.5	25 kg	plastic	886,90	665,15

Cerium(IV) oxide

≥99,9 %, p.a.

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
9837.1	100 g	plastic	35,40	26,50
9837.2	500 g	plastic	105,25	78,90
9837.3	1 kg	plastic	167,20	125,35

Potassium dihydrogen phosphate

≥99 %, p.a., ACS

Reagent for phosphate, buffer, molecular biology.

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
3904.2	250 g	plastic	19,25	14,40
3904.1	1 kg	plastic	56,90	42,60
3904.3	5 kg	plastic	228,90	171,60
3904.5	25 kg	plastic	998,70	749,00

Iron (II) gluconate dihydrate

≥97 %, p.a.

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
0800.1	250 g	plastic	28,95	21,35
0800.2	1 kg	plastic	93,45	69,75

Indium(III) sulphate

≥99,99 %, p.a.

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
0314.1	5 g	plastic	28,50	21,30
0314.2	10 g	plastic	45,70	34,20
0314.3	25 g	plastic	81,20	60,85
0314.4	50 g	plastic	150,00	112,45

Potassium iodide

≥99,5 %, p.a., ISO

Reagent used in iodometry and for the preparation of iodine-starch paper.

WGK 3

⚠ Danger H372

Art. No.	Pack Qty.	Pack.	€	€
6750.4	50 g	glass	22,05	16,50
6750.1	250 g	glass	87,00	65,20
6750.3	500 g	glass	150,40	112,75
6750.2	1 kg	glass	273,60	205,15
6750.5	2.5 kg	glass	536,45	402,30

Sodium bromide

≥99 %, p.a., ACS

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
HN15.1	250 g	plastic	16,70	12,45
HN15.2	1 kg	plastic	41,85	31,05
HN15.3	2.5 kg	plastic	87,00	65,20
HN15.7	25 kg	plastic	686,95	515,15

Sodium chloride

≥99,5 %, p.a., ACS, ISO

For freezing mixtures; salting-out soap. For molecular biology.

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
3957.3	500 g	plastic	16,70	12,45
3957.1	1 kg	plastic	18,85	13,85
3957.2	5 kg	plastic	68,70	51,45
3957.4	10 kg	plastic	105,25	78,90
3957.5	25 kg	plastic	205,90	154,35

Sodium sulphate

≥99 %, p.a., ACS, anhydrous, ISO, powdered

Drying agent for solvents.

WGK 1

Art. No.	Pack Qty.	Pack.	€	€
8560.3	500 g	plastic	26,80	20,05
8560.1	1 kg	plastic	37,55	27,80
8560.2	5 kg	plastic	154,30	115,65
8560.5	25 kg	plastic	547,20	410,35

Tungsten(VI) oxide

≥99,5 %, p.a.

Art. No.	Pack Qty.	Pack.	€	€
0760.1	50 g	plastic	32,15	24,05
0760.2	100 g	plastic	46,80	35,05
0760.3	500 g	plastic	184,80	138,55



Determination of the Hydrocarbon Index

-20%


The hydrocarbon index is defined as the total of all organic substances that can be extracted with hexane, but cannot be adsorbed in Florisil® (magnesium silicate). On a covalent GC column, these elute between *n*-decane and *n*-tetracontane and have a boiling range of 175–525 °C. These include heating oils, diesel fuels, kerosene, lubricants and transmission fluids. Petrols are not detected using this method. Carl ROTH offers an extensive range of products for the determination of the hydrocarbon index in accordance with **EN ISO 9377-2-Mod. (DIN H53)**.

Standards

According to **ISO 9377-2-Mod. (DIN H53)**.

- Manufactured in accordance with **ISO 17034** in an accredited environment
- Tested in a laboratory accredited to **ISO/IEC 17025**
- Ideal for calibration of GC-FID, GC-TCD, GC-ECD, GC-MS, GC-MS/MS, LC-UV, LC-MS and LC-MS/MS
- With an detailed, batch-related certificate of analysis

Product name	Purity	Pack.	Art. No.	Pack Qty.	€	€
<i>n</i> -Alkane standard solution (C10-C40, all even)	16 components (each 50 mg/l) in <i>n</i> -hexane	glass ampoule	1772.1	1 ml	111,70	89,10
	16 components (each 100 mg/l) in <i>n</i> -hexane/petroleum ether		1772.2	5 ml	167,20	133,70
			9331.1	5 ml	215,55	172,40
<i>n</i> -Alkane standard solution (C7, C8, C9, C10-C40, all even)	19 components (each 50 mg/l) in isooctane	glass ampoule	9629.1	5 ml	191,90	153,50
Extraction solvent stock solution	20 µl/l <i>n</i> -decane and 20 mg/l <i>n</i> -tetracontane in <i>n</i> -hexane	glass ampoule	1750.2	10 ml	93,45	74,70
Florisil® quality control standard	1 000 mg/l mineral oil and diesel in <i>n</i> -hexane	glass ampoule	9334.1	5 ml	68,30	54,60
Standard mixture of mineral oils	500 mg/l mineral oil and diesel in acetone	glass ampoule	1774.2	5 ml	107,40	85,85
	5 000 mg/l mineral oil and diesel in <i>n</i> -hexane	glass ampoule	1773.2	5 ml	95,60	76,20
Stearyl stearate test solution	2 000 mg/l in <i>n</i> -hexane	glass ampoule	1760.2	10 ml	126,35	101,05



Refractive Index Standards

ROTI®Calipure

-20%

Our refractive index standards are manufactured from high-quality reagents. They can be used with all refractometers. They are solvent based and are supplied in bottles with an additional pipette. The batch specific certificates of analysis are available online.

NEW

Refractive Index Standard

ROTI®Calipure 1,38779 (20 °C)

Storage temperature: +4 °C

UN 1206 · ADR 3 II · WGK 2

Danger H225-H304-H315-H336-H410

Art. No.	Pack Qty.	Pack.	€	€
3100.1	15 ml	glass	75,15	60,05

Refractive Index Standard

ROTI®Calipure 1,49672 (20 °C)

Storage temperature: +4 °C

UN 1294 · ADR 3 II · WGK 2

Danger H225-H304-H315-H336-H361d-H373

Art. No.	Pack Qty.	Pack.	€	€
3124.1	15 ml	glass	75,15	60,05

Refractive Index Standard

ROTI®Calipure 1,40485 (20 °C)

Storage temperature: +4 °C

UN 3295 · ADR 3 II · WGK 2

Danger H225-H304-H315-H336-H361d-H373-H410

Art. No.	Pack Qty.	Pack.	€	€
3102.1	15 ml	glass	75,15	60,05

Refractive Index Standard

ROTI®Calipure 1,50044 (20 °C)

Storage temperature: +4 °C

UN 3295 · ADR 3 II · WGK 2

Danger
H225-H302-H304-H315-H319-H335-H336-H361d-H373-H410

Art. No.	Pack Qty.	Pack.	€	€
3125.1	15 ml	glass	75,15	60,05

Refractive Index Standard

ROTI®Calipure 1,42345 (20 °C)

Storage temperature: +4 °C

UN 3295 · ADR 3 II · WGK 2

Danger H225-H304-H315-H336-H361d-H373-H410

Art. No.	Pack Qty.	Pack.	€	€
3103.1	15 ml	glass	75,15	60,05

Refractive Index Standard

ROTI®Calipure 1,51726 (20 °C)

Storage temperature: +4 °C

UN 3295 · ADR 3 II · WGK 2

Danger
H225-H302-H304-H315-H319-H335-H336-H361d-H373-H410

Art. No.	Pack Qty.	Pack.	€	€
3126.1	15 ml	glass	75,15	60,05

Refractive Index Standard

ROTI®Calipure 1,44468 (20 °C)

Storage temperature: +4 °C

UN 3295 · ADR 3 II · WGK 2

Danger H225-H304-H315-H336-H361d-H373-H410

Art. No.	Pack Qty.	Pack.	€	€
3106.1	15 ml	glass	75,15	60,05

Refractive Index Standard

ROTI®Calipure 1,53660 (20 °C)

Storage temperature: +4 °C

UN 3295 · ADR 3 II · WGK 2

Danger
H225-H302-H304-H315-H319-H335-H336-H361d-H373-H410

Art. No.	Pack Qty.	Pack.	€	€
3143.1	15 ml	glass	75,15	60,05

Refractive Index Standard

ROTI®Calipure 1,46768 (20 °C)

Storage temperature: +4 °C

UN 3295 · ADR 3 II · WGK 2

Danger H225-H304-H315-H336-H361d-H373-H410

Art. No.	Pack Qty.	Pack.	€	€
3120.1	15 ml	glass	75,15	60,05

Refractive Index Standard

ROTI®Calipure 1,65808 (20 °C)

Storage temperature: +4 °C

WGK 1

Warning H302-H319

Art. No.	Pack Qty.	Pack.	€	€
3152.1	15 ml	glass	75,15	60,05

Volumetric Standard Solutions

-20%

Product name	Purity	Pack.	Art. No.	Pack Qty.	€	€
Bromide bromate solution	0,05 mol Br ₂ /l – 0,1 N, volumetric standard solution	plastic	8131.1	1 l	33,25	26,55
CDTA disodium salt solution	0,1 mol/l – 0,1 N, volumetric standard solution	plastic	0243.1	1 l	211,70	169,30
Cerium(IV) sulphate solution	0,1 mol/l – 0,1 N, volumetric standard solution	glass	P719.1	1 l	71,95	57,50
		plastic	P719.7	5 l	254,70	203,70
EDTA disodium salt solution	0,1 mol/l – 0,1 N, volumetric standard solution	plastic	K714.1	1 l	29,55	18,80
		plastic	K714.2	5 l	71,50	57,15
		ROTI®CUBE	K714.3	5 l	77,95	62,35
		ROTI®CUBE	K714.4	10 l	137,50	109,95
Iodid-iodate solution	1/128 mol I ₂ /l – 1/64 N, volumetric standard solution	plastic	KK65.1	1 l	31,75	25,35
		plastic	KK65.2	2,5 l	60,75	48,55
Iodine solution	0,05 mol I ₂ /l – 0,1 N, volumetric standard solution	glass	K016.1	1 l	35,40	28,25
		glass	K016.2	2,5 l	74,75	59,75
Potassium permanganate solution	0,02 mol/l – 0,1 N, volumetric standard solution	glass	K019.1	1 l	25,30	20,20
Silver nitrate solution	0,1 mol/l – 0,1 N, volumetric standard solution	plastic	K713.2	250 ml	36,45	28,90
		plastic	K713.4	500 ml	40,30	38,55
		plastic	K713.1	1 l	80,55	64,35
		plastic	K713.3	2,5 l	123,55	98,75
Sodium carbonate solution	0,05 mol/l – 0,1 N, volumetric standard solution	plastic	0187.1	1 l	100,50	86,75
	0,5 mol/l – 1 N, volumetric standard solution	plastic	0211.1	1 l	100,50	86,75
Sodium chloride solution	1 mol/l – 1 N, volumetric standard solution	plastic	8115.1	1 l	20,95	23,10
Sodium thiosulphate solution	0,1 mol/l – 0,1 N, volumetric standard solution	plastic	K022.1	1 l	19,25	15,35
		plastic	K022.2	5 l	52,60	41,80
		ROTI®CUBE	K022.3	5 l	50,60	46,85
		ROTI®CUBE	K022.4	10 l	90,85	72,65
Zinc sulphate solution	0,1 mol/l – 0,1 N, volumetric standard solution	plastic	P723.1	1 l	20,50	22,45

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



Acids and Bases for Analysis

-25 %

Acetic acid

ROTIPURAN® 100 %, p.a.

UN 2789 · ADR 8 (3) II · WGK 1

Danger H226-H314

Art. No.	Pack Qty.	Pack.	€	€
3738.1	1 l	glass	26,95	19,70
3738.4	1 l	plastic	24,20	18,10
3738.2	2.5 l	glass	55,80	41,80
3738.5	2.5 l	plastic	59,65	40,20
3738.6	5 l	plastic	79,05	59,00
3738.3	10 l	plastic	139,85	100,35

Hydrochloric acid

ROTIPURAN® 37 % fuming, p.a., ACS, ISO

UN 1789 · ADR 8 II · WGK 1

Danger H290-H314-H335

Art. No.	Pack Qty.	Pack.	€	€
4625.1	1 l	glass	21,40	16,00
4625.2	2.5 l	glass	34,30	25,65
4625.3	10 l	plastic	85,90	64,35

Sodium hydroxide solution

ROTIPURAN® ≥32 %, p.a.

UN 1824 · ADR 8 II · WGK 1

Danger H290-H314

Art. No.	Pack Qty.	Pack.	€	€
T196.1	1 l	plastic	31,10	23,25
T196.2	2.5 l	plastic	60,10	45,00
T196.3	5 l	plastic	94,50	70,80
T196.7	25 l	plastic	364,45	273,30

Potassium hydroxide

≥85 %, p.a., in pellets

UN 1813 · ADR 8 II · WGK 1

Danger H290-H302-H314

Art. No.	Pack Qty.	Pack.	€	€
6751.3	250 g	plastic	17,10	12,75
6751.1	1 kg	plastic	28,50	21,30
6751.2	5 kg	plastic	97,75	72,95
6751.5	25 kg	plastic	299,95	224,90

Nitric acid

ROTIPURAN® ≥65 %, p.a., ISO

UN 2031 · ADR 8 (5.1) II · WGK 1

Danger
H272-H290-H314-H331-EUH071

Art. No.	Pack Qty.	Pack.	€	€
4989.3	250 ml	glass	19,90	14,85
4989.1	1 l	glass	31,75	23,50
4989.2	2.5 l	glass	62,25	46,65

-20 %

Product name	Purity	Pack.	Art. No.	Pack Qty.	€	€
Acetic acid	≥95,9 %, p.a.	plastic	T179.1	1 l	23,15	18,15
		plastic	T179.2	2.5 l	46,80	37,40
		plastic	T179.4	5 l	68,70	54,70
		plastic	T179.3	10 l	114,95	91,90
Ammonia solution	30 %, p.a., ACS	glass	CP17.1	1 l	22,05	17,60
		glass	CP17.2	2.5 l	35,40	28,25
		PE/steel	CP17.3	5 l	67,65	54,05
		PE/steel	CP17.4	10 l	111,70	89,10
	≥25 %, p.a.	PE/steel	CP17.5	25 l	188,15	150,50
		glass	6774.1	1 l	23,15	18,15
		glass	6774.2	2.5 l	35,40	28,25
		plastic	6774.3	5 l	53,25	42,55
Formic acid	≥98 %, p.a., ACS	glass	4724.3	500 ml	22,05	17,60
		glass	4724.1	1 l	37,10	29,65
		glass	4724.2	2.5 l	78,40	62,65
		PE/steel	4724.4	10 l	252,55	201,95
		PE/steel	4724.5	25 l	504,20	403,00
	≥85 %, p.a.	glass	CP16.1	500 ml	24,20	19,35
		glass	CP16.2	1 l	37,10	29,65
		glass	CP16.3	2.5 l	78,40	62,65
		plastic	CP16.4	10 l	241,90	193,50
		plastic	CP16.5	25 l	504,20	403,00
Hydrochloric acid	≥32 %, p.a., ISO	glass	P074.1	1 l	18,85	15,05
		plastic	P074.3	1 l	16,70	13,30
		glass	P074.2	2.5 l	32,80	26,20
		plastic	P074.4	2.5 l	30,65	24,50
	≥25 %, p.a., ISO	glass	6331.1	1 l	19,25	15,35
		plastic	6331.3	1 l	17,10	13,65
		glass	6331.2	2.5 l	32,15	25,65
		plastic	6331.4	2.5 l	30,00	23,95
		plastic	6331.7	25 l	192,45	153,60
		plastic	6366.1	1 l	67,20	53,75
ortho-Phosphoric acid	≥85 %, p.a., ISO	plastic	6366.2	2.5 l	137,50	109,95
Sulphuric acid	96 %, p.a., ISO	glass	4623.3	250 ml	19,90	15,90
		glass	4623.1	1 l	32,15	25,65
		plastic	4623.4	1 l	30,00	23,95
		glass	4623.2	2.5 l	66,15	52,85
		plastic	4623.5	2.5 l	68,30	54,60
		plastic	4623.6	10 l	127,40	101,90

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

Solvents for Analysis

-20%

Product name	Purity	Pack.	Art. No.	Pack Qty.	€	€
Acetic acid ethyl ester	≥99,5 %, p.a., ACS, ISO	glass	6784.1	1 l	35,40	28,25
		plastic	6784.3	1 l	34,90	27,40
		glass	6784.2	2.5 l	64,40	51,45
		plastic	6784.4	2.5 l	63,35	50,40
		plastic	6784.5	5 l	103,75	82,95
Acetone	≥99,8 %, p.a., ACS, ISO	glass	9372.1	1 l	20,95	23,10
		plastic	9372.4	1 l	25,30	20,20
		glass	9372.2	2.5 l	59,70	47,70
		plastic	9372.5	2.5 l	54,75	43,75
		plastic	9372.6	5 l	94,10	75,25
		PE/steel	9372.7	10 l	156,85	125,45
		tinplate	9372.3	25 l	274,15	219,30
Cyclohexane	≥99,5 %, p.a., ACS, ISO	glass	6886.1	1 l	53,65	42,85
		glass	6886.2	2.5 l	103,10	82,45
		aluminium	6886.3	5 l	181,70	145,00
		tinplate	6886.4	10 l	299,95	239,60
		tinplate	6886.5	25 l	579,45	463,20
Dichloromethane	≥99,5 %, p.a., ACS, ISO	glass	6053.3	100 ml	16,70	13,30
		glass	6053.1	1 l	38,50	30,50
		glass	6053.2	2.5 l	69,35	55,45
		tinplate	6053.4	10 l	173,65	138,55
		tinplate	6053.5	25 l	330,60	264,45
Diethyl ether	≥99,5 %, p.a., stabilised	glass	3942.1	1 l	47,85	38,25
		glass	3942.6	2.5 l	84,85	67,60
		aluminium	3942.4	5 l	161,80	129,40
		tinplate	3942.5	25 l	467,65	374,10
Dimethyl sulphoxide (DMSO)	≥99,8 %, p.a.	glass	4720.4	100 ml	17,10	13,65
		glass	4720.2	500 ml	31,10	24,60
		glass	4720.1	1 l	52,60	41,80
		glass	4720.3	2.5 l	107,40	85,85
Ethylene glycol	≥99,5 %, p.a.	plastic	6881.1	1 l	44,65	35,65
		plastic	6881.2	2.5 l	90,20	71,90
		plastic	6881.4	5 l	130,70	110,90
		plastic	6881.3	10 l	256,95	205,20
		plastic	6881.5	25 l	461,20	368,60
<i>n</i> -Hexane	≥99 %, p.a., ACS	glass	4723.1	1 l	79,05	63,20
		glass	4723.2	2.5 l	171,90	137,45
		aluminium	4723.3	5 l	321,45	256,80
		tinplate	4723.5	10 l	590,20	471,80
		tinplate	4723.4	25 l	1.353,45	1.082,50
Isooctane	≥99,5 %, p.a., ACS	glass	6889.1	1 l	57,95	46,10
		glass	6889.2	2.5 l	122,05	97,60
Methanol	≥99,9 %, p.a., ACS, ISO	glass	4627.1	1 l	27,45	21,90
		plastic	4627.4	1 l	25,90	20,20
		glass	4627.2	2.5 l	46,15	36,85
		plastic	4627.5	2.5 l	44,00	35,15
		plastic	4627.6	5 l	81,20	64,90
		tinplate	4627.3	25 l	171,50	137,15
		glass	T173.1	1 l	35,40	28,25
Petroleum ether 40–60 °C	p.a., ACS, ISO	glass	T173.2	2.5 l	66,55	53,20
		aluminium	T173.3	5 l	115,20	88,45
		tinplate	T173.5	25 l	353,70	282,60
		glass	3313.4	100 ml	10,20	14,50
Trichloromethane/Chloroform	≥99 %, p.a.	glass	3313.1	1 l	50,45	40,30
		glass	3313.2	2.5 l	96,65	77,25
		tinplate	3313.5	25 l	719,20	575,30
		plastic	T172.1	1 l	11,75	9,35
Water	p.a., ACS	plastic	T172.2	2.5 l	23,15	18,15
		plastic	T172.3	5 l	33,25	26,55
		plastic	T172.5	30 l	126,75	101,35
		glass	4436.1	1 l	40,35	32,25
Xylene (isomers)	≥99 %, p.a., ACS, ISO	glass	4436.2	2.5 l	89,80	71,80
		aluminium	4436.3	5 l	126,35	101,05
		tinplate	4436.7	25 l	353,70	282,60

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



ROTISOLV® LC-MS-Eluent Mixtures

-20%

Properties:

- Ready-to-use solvent blends for easy handling
- High chemical purity of the used raw material: HPLC solvents ($\geq 99.9\%$) and acids ($\geq 99.9\%$)
- High accuracy of the ratio of ingredients
- High UV-permeability
- Trace elements: ≤ 0.05 ppm per element
- LC-MS suitability tested
- Filtered through $0.2\ \mu\text{m}$ membrane
- Bottled under inert gas



Product name	Purity	Art. No.	Pack Qty.	€	€
Acetonitrile with 0.1 % formic acid	$\geq 99.9\%$, LC-MS Grade	CP00.1	1 l	89,80	71,80
		CP00.2	2.5 l	198,90	159,10
Acetonitrile with 0.1 % acetic acid	$\geq 99.9\%$, LC-MS Grade	CP01.1	1 l	89,80	71,80
		CP01.2	2.5 l	198,90	159,10
Acetonitrile with 0.1 % trifluoroacetic acid	$\geq 99.9\%$, LC-MS Grade	CP02.1	1 l	89,80	71,80
		CP02.2	2.5 l	198,90	159,10
Methanol with 0.1 % trifluoroacetic acid	$\geq 99.9\%$, LC-MS Grade	CP06.1	1 l	46,80	37,40
Water with 0.1 % formic acid	LC-MS Grade	CP03.1	1 l	46,80	37,40
		CP03.2	2.5 l	84,40	67,50
Water with 0.1 % acetic acid	LC-MS Grade	CP04.2	2.5 l	94,50	75,55
Water with 0.1 % trifluoroacetic acid	LC-MS Grade	CP05.2	2.5 l	91,30	72,95

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

Ion Pair Reagents

Ion pair reagents are strongly hydrophobic ions which form neutral ion pairs with oppositely charged sample molecules. This way, the simultaneous separation of charged and non-charged molecules is possible.

Properties:

- High purity
- High UV-permeability
- Broad range of products
- Excellent price/performance ratio

-20%


Product name	Purity	Art. No.	Pack Qty.	€	€
Butane-1-sulphonic acid sodium salt	$\geq 99\%$, for ion pair chromatography	KK50.1	10 g	52,60	41,80
		KK50.2	25 g	99,45	79,55
		KK50.3	100 g	302,00	241,55
Decane-1-sulphonic acid sodium salt	$\geq 99\%$, for ion pair chromatography	KK51.1	10 g	54,30	43,40
		KK51.2	25 g	106,35	84,80
		KK51.3	100 g	327,80	262,15
Dodecane-1-sulphonic acid sodium salt	$\geq 99\%$, for ion pair chromatography	KK52.1	10 g	57,95	46,10
		KK52.2	25 g	113,85	91,05
		KK52.3	100 g	370,90	296,70
Heptane-1-sulphonic acid sodium salt	$\geq 98\%$, for ion pair chromatography	KK53.1	10 g	48,95	39,10
		KK53.2	25 g	95,15	76,10
		KK53.3	100 g	283,70	226,70
Hexane-1-sulphonic acid sodium salt	$\geq 98\%$, for ion pair chromatography	KK54.1	10 g	48,95	39,10
		KK54.2	25 g	95,15	76,10
		KK54.3	100 g	283,70	226,70
Octane-1-sulphonic acid sodium salt	$\geq 98\%$, for ion pair chromatography	KK55.1	10 g	48,95	39,10
		KK55.2	25 g	95,15	76,10
		KK55.3	100 g	283,70	226,70
Pentane-1-sulphonic acid sodium salt	$\geq 98\%$, for ion pair chromatography	KK56.1	10 g	48,95	39,10
		KK56.2	25 g	95,15	76,10
		KK56.3	100 g	283,70	226,70
Propane-1-sulphonic acid sodium salt	$\geq 98\%$, for ion pair chromatography	KK57.1	10 g	55,80	44,60
		KK57.2	25 g	111,70	89,10
		KK57.3	100 g	338,65	270,90

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

IC Standards

-20%

Ion Standards for IC (Ion Chromatography)

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.

- Single and multi-element-standards
- Anion and cation multi-element-standards
- Container sizes: 100 ml and 500 ml



Anion Standards

Product name	Purity	Matrix	Art. No.	Pack Qty.	€	€
Chloride IC Standard Solution	1 000 mg/l Cl ⁻	H ₂ O	2656.1	100 ml	41,40	33,10
			2656.2	500 ml	80,55	64,35
Fluoride IC Standard Solution	1 000 mg/l F ⁻	H ₂ O	2659.1	100 ml	41,40	33,10
			2659.2	500 ml	80,55	64,35
Nitrate IC Standard Solution	1 000 mg/l NO ₃ ⁻	H ₂ O	2661.1	100 ml	41,40	33,10
			2661.2	500 ml	80,55	64,35
Nitrite IC Standard Solution	1 000 mg/l NO ₂ ⁻	H ₂ O	2664.1	100 ml	42,90	34,25
			2664.2	500 ml	80,55	64,35
Sulphate IC Standard Solution	1 000 mg/l SO ₄ ²⁻	H ₂ O	2666.1	100 ml	41,40	33,10
			2666.2	500 ml	80,55	64,35

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

Cation Standards

Product name	Purity	Matrix	Art. No.	Pack Qty.	€	€
Ammonium IC Standard Solution	1 000 mg/l NH ₄ ⁺	H ₂ O	2654.1	100 ml	41,40	33,10
			2654.2	500 ml	80,55	64,35
Calcium IC Standard Solution	1 000 mg/l Ca ²⁺	H ₂ O	1986.1	100 ml	41,40	33,10
			1986.2	500 ml	83,35	66,65
Lithium IC Standard Solution	1 000 mg/l Li ⁺	H ₂ O	8158.1	100 ml	42,90	34,25
			8158.2	500 ml	83,35	66,65
Potassium IC Standard Solution	1 000 mg/l K ⁺	H ₂ O	1985.1	100 ml	41,40	33,10
			1985.2	500 ml	83,35	66,65
Sodium IC Standard Solution	1 000 mg/l Na ⁺	H ₂ O	1984.1	100 ml	41,40	33,10
			1984.2	500 ml	83,35	66,65

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

Multi Element Standards

Product name	Purity	Composition	Art. No.	Pack Qty.	€	€
Anion Multi-Element Standard I (IC, 3 anions, 1000 mg/l)	3 anions (Cl ⁻ , NO ₃ ⁻ , SO ₄ ²⁻), in water	Cl ⁻ , NO ₃ ⁻ , SO ₄ ²⁻	2026.1	100 ml	140,75	112,55
			2026.2	500 ml	267,60	213,80
Anion Multi-Element Standard II (IC, 3 anions, 1000 mg/l)	3 anions (F ⁻ , Br ⁻ , PO ₄ ³⁻), in water	F ⁻ , Br ⁻ , PO ₄ ³⁻	2029.1	100 ml	148,90	119,10
			2029.2	500 ml	288,65	230,90
Anion Multi-Element Standard (IC, 6 anions, 10 mg/l)	6 anions (F ⁻ , Cl ⁻ , Br ⁻ , NO ₃ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻), in water	F ⁻ , Cl ⁻ , Br ⁻ , NO ₃ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻	2030.1	100 ml	117,20	93,70
			2030.2	500 ml	204,15	163,25
Anion Multi-Element Standard (IC, 7 anions, concentration in mg/l)	7 anions (F ⁻ , Cl ⁻ , NO ₂ ⁻ , Br ⁻ , NO ₃ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻), in water	F ⁻ (5), Cl ⁻ (10), NO ₂ ⁻ (15), Br ⁻ (25), NO ₃ ⁻ (25), PO ₄ ³⁻ (40), SO ₄ ²⁻ (30)	2668.1	100 ml	83,75	66,95
			2668.2	500 ml	167,20	133,70
Cation Multi-Element Standard (IC, 6 cations, concentration in mg/l)	6 cations (NH ₄ ⁺ , Ca ²⁺ , K ⁺ , Li ⁺ , Mg ²⁺ , Na ⁺), in 0,1 % nitric acid	NH ₄ ⁺ (40), Ca ²⁺ (40), K ⁺ (20), Li ⁺ (10), Mg ²⁺ (20), Na ⁺ (20)	2669.1	100 ml	83,75	66,95
			2669.2	500 ml	167,20	133,70

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



Silica Gels

-20%



Silica gel blue 2–4 mm, with indicator, pearls

Drying agent

Art. No.	Pack Qty.	Pack.	€	€
2440.1	500 g	plastic	18,85	15,05
2440.2	1 kg	plastic	29,60	23,65
2440.3	2.5 kg	plastic	59,05	47,15
2440.4	10 kg	plastic	196,20	156,95



Silica gel white 0,5–1 mm, granules

Drying agent

Art. No.	Pack Qty.	Pack.	€	€
9376.1	1 kg	plastic	35,40	28,25
9376.2	5 kg	plastic	124,60	99,65



Silica gel orange – Desiccant Sachets 10 g (4 × 9 cm), with indicator

Desiccant sachet made of white long fiber paper with Silica gel orange filling.
Regeneration is not possible.

WGK 1

Art. No.	Pack Qty.	€	€
N077.2	75 unit(s)	34,30	27,40



Silica gel orange 2–5 mm, with indicator, pearls

Drying agent

Art. No.	Pack Qty.	Pack.	€	€
P077.4	500 g	plastic	27,45	21,90
P077.1	1 kg	plastic	41,40	33,10
P077.2	2.5 kg	plastic	80,55	64,35
P077.3	10 kg	plastic	243,50	194,45

Silica gel white 1–3 mm, granules

Drying agent

Art. No.	Pack Qty.	Pack.	€	€
T858.1	1 kg	plastic	40,35	32,25
T858.2	5 kg	plastic	131,70	105,35

Silica gel industry grade pearls, w/o indicator

Universal drying agent, drying of buildings.

Art. No.	Pack Qty.	Pack.	€	€
CN70.1	1 kg	plastic	42,50	33,95
CN70.2	5 kg	plastic	154,30	123,40
CN70.3	10 kg	plastic	279,00	223,15
CN70.4	25 kg	plastic	622,45	497,60

Silica gel orange – Desiccant Sachets 25 g (10 × 10 cm), with indicator

Desiccant sachet made of white long fiber paper with Silica gel orange filling.
Regeneration is not possible.

WGK 1

Art. No.	Pack Qty.	€	€
N078.1	30 unit(s)	29,60	23,65

Silica gel orange – Desiccant Sachets 50 g (9 × 12 cm), with indicator

Desiccant sachet made of white long fiber paper with Silica gel orange filling.
Regeneration is not possible.

WGK 1

Art. No.	Pack Qty.	€	€
N079.1	20 unit(s)	41,85	33,20



Silica gel water resistant 2–5 mm, pearls

Drying agent water resistant

Art. No.	Pack Qty.	Pack.	€	€
8109.1	500 g	plastic	30,00	23,95
8109.2	1 kg	plastic	44,65	35,65
8109.3	2.5 kg	plastic	83,35	66,65
8109.4	10 kg	plastic	240,30	192,20

Ion Exchanger ROTI®Change

Roth's product range ROTI®Change contains ion exchanger, which are particularly suitable for analytical purposes. The corresponding polystyrene based resins were specially purified to reduce extractable residues to less than 1 mg/g resin.

Cation exchange resins

-20%

Our cation exchange resins are available as 4 % and 8 % divinylbenzene (DVB) cross-linked polymers with sulphonate as active group. All cation exchange resins are provided in hydrogen (H⁺) form. Typical applications are: removal of ethidium bromide/propidium iodide from DNA samples; separation and preconcentration of amino acids, peptides and nucleotides; desalting (removal of cations) and separation of metal ions.



Product name	Purity	Pack.	Art. No.	Pack Qty.	€	€
Ion exchange resin ROTI®Change 50 W x 2	50–100 mesh, analytical grade, H ⁺ -form NEW	plastic	1A5E.1	25 g	21,40	17,05
		plastic	1A5E.2	100 g	64,40	51,45
		plastic	1A5E.3	250 g	150,40	120,25
		plastic	1A5E.4	500 g	268,65	214,85
	100–200 mesh, analytical grade, H ⁺ -form NEW	plastic	1A5H.1	25 g	21,40	17,05
		plastic	1A5H.2	100 g	64,40	51,45
		plastic	1A5H.3	250 g	150,40	120,25
		plastic	1A5H.4	500 g	268,65	214,85
	200–400 mesh, analytical grade, H ⁺ -form NEW	plastic	1A5Y.1	25 g	21,40	17,05
		plastic	1A5Y.2	100 g	64,40	51,45
		plastic	1A5Y.3	250 g	150,40	120,25
		plastic	1A5Y.4	500 g	268,65	214,85
Ion exchange resin ROTI®Change 50 W x 4	50–100 mesh, analytical grade, H ⁺ -form NEW	plastic	1A60.1	25 g	0,00	17,05
		plastic	1A60.2	100 g	64,40	51,45
		plastic	1A60.3	250 g	150,40	120,25
		plastic	1A60.4	500 g	268,65	214,85
	100–200 mesh, analytical grade, H ⁺ -form	plastic	6864.4	25 g	21,40	17,05
		plastic	6864.1	100 g	64,40	51,45
		plastic	6864.2	250 g	150,40	120,25
		plastic	6864.3	500 g	268,65	214,85
	200–400 mesh, analytical grade, H ⁺ -form NEW	plastic	1A61.1	25 g	21,40	17,05
		plastic	1A61.2	100 g	64,40	51,45
		plastic	1A61.3	250 g	150,40	120,25
		plastic	1A61.4	500 g	268,65	214,85
Ion exchange resin ROTI®Change 50 W x 8	50–100 mesh, analytical grade, H ⁺ -form	plastic	6865.4	25 g	21,40	17,05
		plastic	6865.1	100 g	64,40	51,45
		plastic	6865.2	250 g	150,40	120,25
		plastic	6865.3	500 g	268,65	214,85
	100–200 mesh, analytical grade, H ⁺ -form	plastic	6866.4	25 g	21,40	17,05
		plastic	6866.1	100 g	64,40	51,45
		plastic	6866.2	250 g	150,40	120,25
		plastic	6866.3	500 g	268,65	214,85
	200–400 mesh, analytical grade, H ⁺ -form	plastic	6867.4	25 g	21,40	17,05
		plastic	6867.1	100 g	64,40	51,45
		plastic	6867.2	250 g	150,40	120,25
		plastic	6867.3	500 g	268,65	214,85

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



Ion Exchanger ROTI®Change

-20%

Anion exchange resins

Our anion exchange resins are available as 4 % and 8 % divinylbenzene (DVB) cross-linked polymers but with quaternary amines as active groups. All anion exchange resins are provided in chloride (Cl⁻) form. Typical applications are: exchange of anions of salts; cyclic nucleotide assays and fractionation of organic acids.

Product name	Purity	Pack.	Art. No.	Pack Qty.	€	€
Ion exchange resin ROTI®Change 1 x 2	50–100 mesh, analytical grade, Cl ⁻ -form NEW	plastic	1A2C.1	25 g	21,40	17,05
		plastic	1A2C.2	100 g	64,40	51,45
		plastic	1A2C.3	250 g	150,40	120,25
		plastic	1A2C.4	500 g	268,65	214,85
	100–200 mesh, analytical grade, Cl ⁻ -form NEW	plastic	1A2E.1	25 g	21,40	17,05
		plastic	1A2E.2	100 g	64,40	51,45
		plastic	1A2E.3	250 g	150,40	120,25
		plastic	1A2E.4	500 g	268,65	214,85
	200–400 mesh, analytical grade, Cl ⁻ -form NEW	plastic	1A2H.1	25 g	21,40	17,05
		plastic	1A2H.2	100 g	64,40	51,45
		plastic	1A2H.3	250 g	150,40	120,25
		plastic	1A2H.4	500 g	268,65	214,85
Ion exchange resin ROTI®Change 1 x 4	50–100 mesh, analytical grade, Cl ⁻ -form	plastic	6849.4	25 g	21,40	17,05
		plastic	6849.1	100 g	64,40	51,45
		plastic	6849.2	250 g	150,40	120,25
		plastic	6849.3	500 g	268,65	214,85
	100–200 mesh, analytical grade, Cl ⁻ -form	plastic	6851.4	25 g	21,40	17,05
		plastic	6851.1	100 g	64,40	51,45
		plastic	6851.2	250 g	150,40	120,25
		plastic	6851.3	500 g	268,65	214,85
	200–400 mesh, analytical grade, Cl ⁻ -form NEW	plastic	1A2K.1	25 g	21,40	17,05
		plastic	1A2K.2	100 g	64,40	51,45
		plastic	1A2K.3	250 g	150,40	120,25
		plastic	1A2K.4	500 g	268,65	214,85
Ion exchange resin ROTI®Change 1 x 8	20–50 mesh, analytical grade, Cl ⁻ -form -30%	plastic	6852.4	25 g	21,40	14,90
		plastic	6852.1	100 g	64,40	45,00
		plastic	6852.2	250 g	150,40	105,20
		plastic	6852.3	500 g	268,65	188,00
	50–100 mesh, analytical grade, Cl ⁻ -form	plastic	6854.4	25 g	21,40	17,05
		plastic	6854.1	100 g	64,40	51,45
		plastic	6854.2	250 g	150,40	120,25
		plastic	6854.3	500 g	268,65	214,85
	100–200 mesh, analytical grade, Cl ⁻ -form	plastic	6855.4	25 g	21,40	17,05
		plastic	6855.1	100 g	64,40	51,45
		plastic	6855.2	250 g	150,40	120,25
		plastic	6855.3	500 g	268,65	214,85
	200–400 mesh, analytical grade, Cl ⁻ -form	plastic	6856.4	25 g	21,40	17,05
		plastic	6856.1	100 g	64,40	51,45
		plastic	6856.2	250 g	150,40	120,25
		plastic	6856.3	500 g	268,65	214,85

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ROTI®nanoMETIC



Nanoparticles

Our nanoparticles are well suited for many applications and are mainly supplied as a hydrophilic powder that can be easily suspended in aqueous solutions.

Product name	Purity	Art. No.	Pack Qty.	€
Aluminium oxide, nano	≥99,9 %, 40 nm	8250.1	10 g	23,15
		8250.2	50 g	87,00
		8250.3	100 g	143,55
Copper, nano	≥97 %, 100 nm	8279.1	5 g	35,40
		8279.2	25 g	137,50
		8279.3	100 g	493,45
Copper(II) oxide, nano	≥99 %, 15–50 nm	8251.1	10 g	22,05
		8251.2	50 g	84,40
		8251.3	100 g	137,50
Titanium(IV) oxide, nano	≥99,9 %, 4–8 nm	8254.1	10 g	60,10
		8254.2	50 g	246,20
Zinc oxide, nano	≥99 %, 25 nm	8278.1	10 g	31,10
		8278.2	50 g	120,30
		8278.3	100 g	214,50
Zirkonium(IV) oxide, nano	3 nm, hydrophobic	1776.1	1 g	50,45
		1776.2	5 g	209,65
	3 nm, hydrophilic	2097.1	1 g	42,50
		2097.2	5 g	177,40

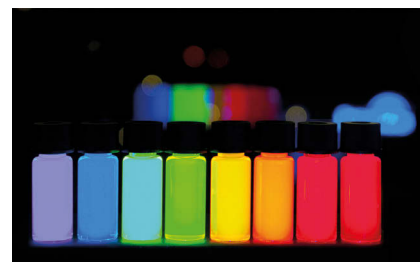
For information on handling nanomaterials, see the WHO homepage.

Quantum Dots (QD)

Quantum dots are fluorescent nanoparticles of certain semiconducting materials, whose electronic properties closely depend on the size of the particles. The fluorescence wavelength shifts towards red for larger particles, and to blue for the smaller ones. This allows coverage of the complete visible colour spectrum with quantum dots of different sizes and yet the same material. The possibility to control the size of the particles during their manufacturing, allows to precisely adjust their electronic and fluorescent properties. The inorganic nature of quantum dots makes them far more stable than organic fluorescent dyes. Moreover, the surface of quantum dot particles is modified with carboxylic groups, which makes them highly soluble in water and enables covalent conjugation with proteins and other molecules.

Quantum Dots, hydrophilic

Product name	Purity	Art. No.	Pack Qty.	€
Cadmium telluride	λ max. 510 ±5 nm	8256.1	5 mg	67,65
		8256.2	10 mg	107,40
	λ max. 570 ±5 nm	8257.1	5 mg	67,65
		8257.2	10 mg	107,40
	λ max. 610 ±5 nm	8258.1	5 mg	67,65
		8258.2	10 mg	107,40
	λ max. 710 ±5 nm	8260.1	5 mg	67,65
		8260.2	10 mg	107,40
	λ max. 780 ±5 nm	8261.1	5 mg	67,65
		8261.2	10 mg	107,40



Quantum Dots, hydrophobic

Product name	Purity	Art. No.	Pack Qty.	€
Zn-Cu-In-S/ZnS	λ max. 530 ±15 nm	8609.1	5 mg	53,65
		8609.2	10 mg	80,55
		8610.1	5 mg	53,65
	λ max. 560 ±15 nm	8610.2	10 mg	80,55
		8618.1	5 mg	53,65
	λ max. 590 ±15 nm	8618.2	10 mg	80,55
		8614.1	5 mg	53,65
	λ max. 610 ±15 nm	8614.2	10 mg	80,55
		8616.1	5 mg	53,65
	λ max. 650 ±15 nm	8616.2	10 mg	80,55
		8615.1	5 mg	53,65
	λ max. 700 ±15 nm	8615.2	10 mg	80,55

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