





Stainless-steel bottles with GL 45 thread

Made of stainless steel 1.4404. With smooth inner surface (acc. to Ilc DIN 17441) and rounded inside edges for complete drainage and easy cleaning. Temperature stable up to 500 °C, autoclavable.

- Shatterproof
- Light-impermeable
- Chemical resistant (except halogen-containing media)

① UN approved transport bottle 1A1/X2.0/1000

For safe transportation of hazardous and flammable liquids, for storage of high-quality materials such as fine chemicals, pharmaceuticals or cosmetic products as well as light-sensitive materials.

No additional outer packaging required, as UN-approved. Approved for the conveyance of liquids with a relative density of up to 2.0 classified into UN packaging group I, II or III as hazardous goods.

Delivery incl. screw cap made of stainless steel with PTFE gasket.

Volume (ml)	Art. No.	Pack Qty.	€
1500	AAC4.1	1	406,00

② Non-UN-approved storage bottle

For the storage of aggressive media, high-purity fine chemicals, pharmaceuticals and cosmetic products as well as light-sensitive materials.

Delivery without cap. Please order separately.

Volume (ml)	Art. No.	Pack Qty.	€
1500	AAC5.1	1	366,00

Accessories:

Stainless steel cap with GL 45 thread and PTFE gasket	Art. No.	Pack Qty.	€
	AAC6.1	1	101,00



Baffle clip set

Made of PP, white. For better mixing during the stirring process.

Set consisting of one clip and 2 blades in different sizes: 15 x 160 mm blade for 1 to 2 litre beakers; 30 x 230 mm blade for 2 to 5 litre beakers.

Art. No.	Qty. (set)	€
XY73.1	1	5,80



Programme extension!

DURAN GROUP

Material
DURAN®



121 °C

DURAN®-Protect screw top bottles

Made of DURAN®, PU encased. Acc. to 4796-1. Freezable down to -30 °C. The plastic casing protects against mechanical damage (scratch protection), minimises loss of fluid in the event of glass breakage (leak and splash protection), prevents scattering of glass shards and provides light protection up to a wavelength of 380 nm. Microwave safe. Autoclavable.

Note:

Do not expose DURAN®-Protect bottles to naked flames or direct heat. Max. thermal load 135 °C. Avoid continuous thermal exposure for longer than 30 min.

DURAN®-Protect clear glass bottles

Delivery incl. pouring ring and screw cap made of PP.

Volume (ml)	Thread	Outer Ø (mm)	Height (mm)	Art. No.	Pack Qty.	€
10	45	36	50	AAA6.1	10	134,00
25	45	36	70	AAA7.1	10	120,00
50	45	46	87	AAA8.1	10	121,00
100	45	56	100	1076.1	10	131,00
150	45	62	110	PC88.1	10	135,00
250	45	70	138	A378.1	10	139,00
500	45	86	176	1077.1	1	16,45
750	45	95	203	PC89.1	10	198,00
1000	45	101	225	1078.1	1	22,75
3500	45	160	295	PC90.1	1	157,00
2000	45	136	260	A379.1	1	41,90
5000	45	182	330	A380.1	1	211,00

DURAN®-Protect clear glass bottles

Delivery without pouring ring and screw cap.

Volume (ml)	Thread	Outer Ø (mm)	Height (mm)	Art. No.	Pack Qty.	€
10000	45	227	410	AKN0.1	1	323,80
15000	45	268	445	AKN1.1	1	528,80
20000	45	288	505	AKN2.1	1	704,50

DURAN®-Protect brown glass bottles

DURAN® retains its properties inside the bottle as the glass is coated externally only; light protection up to 500 nm.

Delivery without pouring ring and screw cap.

Volume (ml)	Thread	Outer Ø (mm)	Height (mm)	Art. No.	Pack Qty.	€
25	25	36	70	AKK5.1	10	235,00
50	32	46	87	AKK6.1	10	236,00
100	45	56	100	AKK7.1	10	236,00
250	45	70	138	AKK8.1	10	310,00
500	45	86	176	AKK9.1	10	383,00
1000	45	101	225	AKL0.1	10	497,00
2000	45	136	260	AKL1.1	10	769,00
5000	45	182	330	AKL2.1	1	276,00



GLS 80 bottle multi-dispensers

Made of **PP** or **PTFE**. Screw cap GLS 80 ① with four GL 18 thread necks. Ideal for loading HPLC-equipment with solvents, for use with titration devices and for transferring sterile culture media in biological processes. Also suitable for use Woulff bottles. Tubes with an outer Ø of 3.2 to 12.0 mm can be attached to the bottle multi-dispensers with a GL 18 lab screw fitting. Autoclavable.

Delivery without bottle (Art. No. XT02.1ff), laboratory screw joints (Art. No. KE53.1ff) and pressure equalisation set (Art. No. KE85.1). Please order separately.

① Made of **PP**. Temperature stable from -40 to +140 °C.

Art. No.	Pack Qty.	€
KE52.1	1	44,95

⑥ Made of **PTFE**. Temperature stable from -200 to +250 °C.

Art. No.	Pack Qty.	€
NY20.1	1	88,70

Lab screw fittings

For GLS 80 connection system (Art. No. KE52.1 or NY20.1). Consists of 2 threaded joint caps GL 18 ② made of PP and 2 inserts ③ for different tube diameters made of PTFE with silicone ring. Autoclavable.

for hose with outer Ø (mm)	Art. No.	Pack Qty.	€
3.2	KE53.1	2	26,90
6.0	KE54.1	2	26,90
8.0	KE55.1	2	26,90
10.0	KE56.1	2	26,90
12.0	KE57.1	2	26,90

Accessories:

④ Screw cap PBT GL 18	E696.1	10	21,45
Wide-neck screw thread bottles GLS 80 500 ml	ET99.1	10	115,00
Wide-neck screw thread bottles GLS 80 1000 ml	EX00.1	10	152,00
⑤ Pressure compensation set (Screw cap GL 18 with olive, Tygon tube, membrane filter)	KE58.1	1	17,80
Spare membrane filter pore size 0.2 µm	HE27.1	2	9,65
Flat gasket GLS 80 made of EPDM, 78 x 63.5 x 1.5 mm	AKL3.1	5	6,95



NEU
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NEW

DURAN GROUP

Material
DURAN®

DIN

Volumetric flasks, class A, USP<31>

Clear glass with blue ring mark. Calibrated to IN. According to DIN 12 600. USP<31> compliant, conformity certified with symbol of conformity and enclosed USP certificate. Temperature stable up to 250 °C without change in volume.

Delivery incl. PE stopper, temperature stable from -40 to +80 °C.

Volume (ml)	Error (±ml)	Standard taper (NS)	Overall height (mm)	Art. No.	Pack Qty.	€
5	0,02	10/19	70	AHY2.1	2	119,00
10	0,02	10/19	90	AHY3.1	2	119,00
25	0,03	10/19	110	AHY4.1	2	23,80
50	0,05	12/21	140	AHY5.1	2	24,50
100	0,08	14/23	170	AHY6.1	2	26,90
200	0,1	14/23	210	AHY7.1	2	36,50
250	0,12	14/23	220	AHY8.1	2	37,50
500	0,15	19/26	260	AHY9.1	2	31,40
1000	0,3	24/29	300	AKA0.1	1	46,90
2000	0,5	29/32	370	AKA1.1	1	59,25



NEU
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NEW

Draining racks

Made of **PVC**, slot-in pegs made of **PP**. For use on table or bench, usable on both sides. Sturdy and shatterproof. With removable collecting tray.

Delivery incl. slot-in pegs and wrenches.

W x H (mm)	Number of 60 mm pegs	Number of 100 mm pegs	Number of 150 mm pegs	Art. No.	Pack Qty.	€
400 x 400	5	26	2	XY74.1	1	160,20
500 x 500	10	39	4	XY75.1	1	188,15
600 x 600	15	56	6	XY76.1	1	212,85

Replacement slot-in pegs

Made of **PP**. Suitable for 1841.1 ff draining boards and XY74.1 ff draining racks.

Length (mm)	Ø (mm)	Art. No.	Pack Qty.	€
60	6	XY77.1	50	52,15
100	10	XY78.1	56	52,15
150	12	XY79.1	50	69,90



DURAN®-volumetric flasks

By DURAN®. Clear glass, blue or white graduations. Calibrated to IN. According to DIN 12 600. Temperature stable up to 250 °C without change in volume.

Delivery incl. PE stopper, temperature stable from -40 to +80 °C.

Class A with blue ring mark. Conformity certified, with mark of conformity and enclosed **batch certificate**.

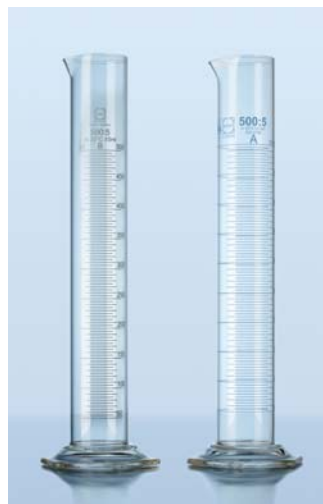
Volume (ml)	Error (±ml)	Standard taper (NS)	Overall height (mm)	Art. No.	Pack Qty.	€
1	0.025	7/16	65	AHL8.1	2	33,50
2	0.025	7/16	70	AHL9.1	2	33,50
5	0.04	10/19	70	AHN0.1	2	16,40
10	0.04	10/19	90	AHN1.1	2	16,70
20	0.04	10/19	110	AHN2.1	2	18,25
25	0.04	10/19	110	AHN3.1	2	18,20
50	0.06	12/21	140	AHN4.1	2	18,90
100	0.1	12/21	170	AHN5.1	2	20,70
100	0.1	14/23	170	AHN6.1	2	20,70
200	0.15	14/23	210	AHN7.1	2	28,20
250	0.15	14/23	220	AHN8.1	2	29,00
500	0.25	19/26	260	AHN9.1	2	39,50
1000	0.4	24/29	300	AHP0.1	1	36,00
1000	0.6	29/32	300	AHP1.1	1	36,00
2000	0.6	29/32	370	AHP2.1	1	45,50
5000	1.2	34/35	475	AHP3.1	1	115,50

Class A with blue ring mark. Conformity certified, with mark of conformity and enclosed **individual certificate**.

Volume (ml)	Error (±ml)	Standard taper (NS)	Overall height (mm)	Art. No.	Pack Qty.	€
1	0.025	7/16	65	AHP4.1	2	98,50
2	0.025	7/16	70	AHP5.1	2	98,50
5	0.04	10/19	70	AHP6.1	2	81,40
10	0.04	10/19	90	AHP7.1	2	81,70
20	0.04	10/19	110	AHP8.1	2	83,20
25	0.04	10/19	110	AHP9.1	2	83,20
50	0.06	12/21	140	AHT0.1	2	83,90
100	0.1	12/21	170	AHT1.1	2	85,90
100	0.1	14/23	170	AHT2.1	2	85,90
200	0.15	14/23	210	AHT3.1	2	93,20
250	0.15	14/23	220	AHT4.1	2	93,95
500	0.25	19/26	260	AHT5.1	2	104,00
1000	0.4	24/29	300	AHT6.1	1	68,50
1000	0.6	29/32	300	AHT7.1	1	68,50
2000	0.6	29/32	370	AHT8.1	1	78,00
5000	1.25	34/35	475	AHT9.1	1	148,00

Class B with white ring mark.

Volume (ml)	Error (±ml)	Standard taper (NS)	Overall height (mm)	Art. No.	Pack Qty.	€
5	0.08	10/19	70	AHX0.1	2	12,70
10	0.08	10/19	90	AHX1.1	2	12,90
20	0.08	10/19	110	AHX2.1	2	14,10
25	0.08	10/19	110	AHX3.1	2	14,10
50	0.12	12/21	140	AHX4.1	2	14,65
100	0.2	14/23	170	AHX5.1	2	16,00
200	0.3	14/23	210	AHX6.1	2	21,95
250	0.3	14/23	220	AHX7.1	2	22,50
500	0.5	19/26	260	AHX8.1	2	30,60
1000	0.8	24/29	300	AHX9.1	1	26,25
2000	1.2	29/32	370	AHY0.1	1	33,15
5000	2.4	34/35	475	AHY1.1	1	84,20



DURAN®-measuring cylinders

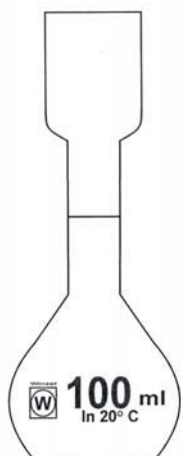
Made of DURAN®. According to DIN ISO 4788. **High form**. With hexagonal base and spout. Standardised wall thickness over the complete measurement range prevents wedge error. Calibrated to IN. Temperature stable up to 250 °C without change in volume. Autoclavable.

Class A with blue graduations. Conformity certified, with mark of conformity and enclosed batch certificate.

Volume (ml)	Graduations (ml)	Limit of error (±ml)	Height (mm)	Ø (mm)	Art. No.	Pack Qty.	€
5	0,1	0,05	112	13	AKA2.1	2	17,65
10	0,2	0,10	137	14	AKA3.1	2	18,90
25	0,5	0,25	167	21	AKA4.1	2	19,65
50	1	0,50	196	25	AKA5.1	2	20,40
100	1	0,50	256	29	AKA6.1	2	23,40
250	2	1,00	331	39	AKA7.1	2	31,90
500	5	2,50	360	53	AKA8.1	2	49,60
1000	10	5,00	460	65	AKA9.1	1	48,30
2000	20	10,00	500	85	AKC0.1	1	80,35

Class B with white graduations

Volume (ml)	Graduations (ml)	Limit of error (±ml)	Height (mm)	Ø (mm)	Art. No.	Pack Qty.	€
5	0,1	0,1	112	13	AKC1.1	2	15,90
10	0,2	0,2	137	14	AKC2.1	2	16,90
25	0,5	0,5	167	21	AKC3.1	2	17,70
50	1	1	196	25	AKC4.1	2	18,35
100	1	1	256	29	AKC5.1	2	21,00
250	2	2	331	39	AKC6.1	2	28,70
500	5	5	360	53	AKC7.1	2	44,60
1000	10	10	460	65	AKC8.1	1	43,45
2000	20	20	500	85	AKC9.1	1	72,30



Kohlrausch flasks, class A

By Winzer. Made of borosilicate glass 3.3. For sugar analysis acc. to Kohlrausch. With ring mark, accuracy within official test tolerance.

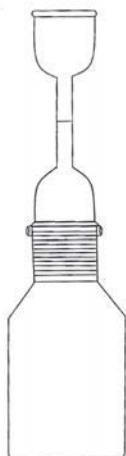
Volume (ml)	Art. No.	Pack Qty.	€
100	AAN3.1	1	21,30
200	AAN4.1	1	26,35



Erlenmeyer flasks

Made of **PTFE**. Thick-walled, with standard ground joint. Highly pure, chemically inert. Hydrophobic, anti-adhesive surface. Temperature stable from -200 to +250 °C. Autoclavable.

Volume (ml)	Standard taper (NS)	Height (mm)	Outer Ø (mm)	Art. No.	Pack Qty.	€
50	19/26	86	54	NP91.1	1	112,90
100	19/26	128	63	NP92.1	1	149,45
250	29/32	144	85	NP93.1	1	208,55
500	29/32	190	107	NP94.1	1	371,95



Pycnometers

By Winzer. Made of borosilicate glass 3.3. For bituminous compounds and mineral substances. With ring mark.

Volume (ml)	NS	Art. No.	Pack Qty.	€
500	45/40	AAN8.1	1	80,20
1000	60/46	AAN9.1	1	98,70
2000	60/46	AAP0.1	1	116,10



Erlenmeyer flasks

Made of borosilicate glass 3.3. With standard ground glass joint.

Volume (ml)	Standard taper (NS)	Largest outer Ø (mm)	Height (mm)	Art. No.	Pack Qty.	€
25	14/23	42	70	Y643.1	10	70,70
25	19/26	42	70	NT33.1	10	63,40
50	14/23	51	85	Y644.1	10	100,95
50	29/32	51	85	X769.1	10	82,55
100	19/26	51	105	X770.1	10	112,90
100	29/32	64	105	X771.1	10	93,80
200	29/32	79	130	NT34.1	10	111,80
250	29/32	85	135	X773.1	10	87,60
250	45/40	85	135	X774.1	10	127,95
250	14/23	85	140	NT35.1	10	112,90
500	29/32	105	170	X776.1	10	105,35
500	45/50	105	175	NT36.1	10	137,60
1000	29/32	131	215	X778.1	10	170,95
1000	45/40	131	215	X779.1	10	181,70
2000	29/32	166	275	Y684.1	6	124,70
2000	45/50	166	275	NT37.1	6	131,15



Separating funnels

Made of **FEP**. Highly pure, chemically inert, temperature stable from -200 to +250 °C. Hydrophobic, anti-adhesive surfaces. With fine metering tap and NS 29/32 ground glass cone made of **PTFE**, screw cap and integrated combination nut for easy attachment and detachment of the conical ground joint.

Volume (ml)	Art. No.	Pack Qty.	€
125	NY53.1	1	353,70
250	NY54.1	1	395,60
500	NY55.1	1	518,15

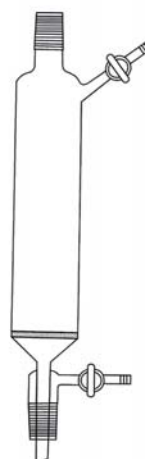


Clean-it beads

Made of stainless steel 1.3541, Ø 3 mm. For effortless removal of residues from vessels which are not readily accessible or heavily soiled. The beads are filled with a little water and detergent, placed in the container to be cleaned and gently swirled.

Delivery incl. bag for collecting, rinsing and drying the beads. Autoclavable.

Weight (g)	Number of balls	Art. No.	Pack Qty. (Bag)	€
50	approx. 920	XY80.1	1	13,95
100	approx. 1840	XY81.1	1	25,65



Reversible frits

By Winzer. Made of borosilicate glass 3.3. With vacuum receiver, two stopcocks (NS 14.5 with solid glass plug, 2.5 mm hole) and Ø 8 mm connector.

10 ml, filter plate Ø 13 mm, ground glass cones 14/23.

Porosity	Art. No.	Pack Qty.	€
1	AAT0.1	1	149,45
2	AAT1.1	1	149,45
3	AAT2.1	1	149,45
4	AAT3.1	1	152,65

50 ml, filter plate Ø 22 mm, ground glass cones 29/32.

Porosity	Art. No.	Pack Qty.	€
1	AAT4.1	1	155,90
2	AAT5.1	1	155,90
3	AAT6.1	1	155,90
4	AAT7.1	1	159,10

100 ml, filter plate Ø 32 mm, ground glass cones 29/32.

Porosity	Art. No.	Pack Qty.	€
1	AAT8.1	1	168,80
2	AAT9.1	1	168,80
3	AAX0.1	1	168,80
4	AAX1.1	1	170,95

250 ml, filter plate Ø 46 mm, ground glass cones 29/32.

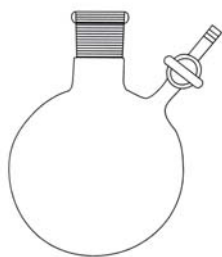
Porosity	Art. No.	Pack Qty.	€
1	AAX2.1	1	181,70
2	AAX3.1	1	181,70
3	AAX4.1	1	181,70
4	AAX5.1	1	183,85

500 ml, filter plate Ø 52 mm, ground glass cones 29/32.

Porosity	Art. No.	Pack Qty.	€
1	AAX6.1	1	231,15
2	AAX7.1	1	231,15
3	AAX8.1	1	231,15
4	AAX9.1	1	235,45

1000 ml, filter plate Ø 75 mm, ground glass cones 29/32.

Porosity	Art. No.	Pack Qty.	€
1	AAY0.1	1	272,00
2	AAY1.1	1	272,00
3	AAY2.1	1	272,00
4	AAY3.1	1	278,45

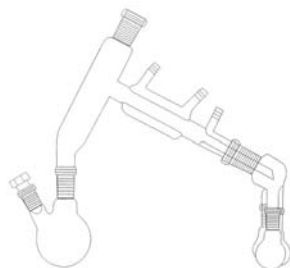


NEU
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NEW

Round bottom flasks with stopcock, special sizes

By Winzer. Made of borosilicate glass 3.3. With ground glass joint and NS 12.5 stopcock, 2.5 mm hole. Connector for hoses with inner Ø 8 mm.

Volume (ml)	Conical ground joint (NS)	Art. No.	Pack Qty.	€
10	14/23	AAP1.1	1	39,80
2000	29/32	AAP2.1	1	89,20



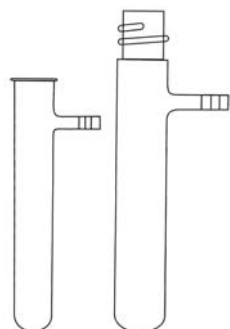
NEU
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NEW

Micro distillation apparatus

Made of borosilicate glass 3.3. Compact design for loss-free condensate flow. Short-flow distilling link with socket and two ground glass cones 14/23, Liebig condenser, jacket length 70 mm and vacuum receiver. Please order ground joint clamps and thermometer separately.

Delivery incl. distillation udder, 3 5 ml round bottom flasks, 50 ml double-neck flask and NS 14/23 hollow glass stopper.

Art. No.	Pack Qty.	€
AAN5.1	1	181,70



NEU
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NEW

Suction tubes

By Winzer. Made of borosilicate glass 3.3. With glass hose connection.

With heavy duty rim

Volume (ml)	Outer Ø x height (mm)	Art. No.	Pack Qty.	€
20	16 x 160	AAP7.1	1	20,35
30	18 x 180	AAP8.1	1	21,45

With GL 14 thread, screw cap with hole and silicon gasket (inner Ø 6 mm)

Volume (ml)	Outer Ø x height (mm)	Art. No.	Pack Qty.	€
10	12 x 160	AAP9.1	1	24,85



NEU
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NEW

Gas dispersion tubes

Made of DURAN®. For fine dispersion of gases in liquids, e.g. during reactions. Tube height 250 mm.

Tube outer Ø (mm)	Plate Ø (mm)	Porosity	Art. No.	Pack Qty.	€
6	22	0	AAE9.1	5	124,00
6	22	1	AAH0.1	5	124,00
6	22	2	AAH1.1	5	124,00
9	25	0	AAH2.1	5	148,00
9	25	1	AAH3.1	5	148,00
9	25	2	AAH4.1	5	148,00
11	25	1	AAH5.1	5	172,00



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Filter tubes

Made of DURAN®. For treatment of liquids for intake or for protecting downstream pumps and other apparatus against ingress of solid particles.

① **Microfilter cartridges** 13 x 25 mm, tube: Ø 8 mm, H 200 mm

Porosity	Art. No.	Pack Qty.	€
1	AAC7.1	10	291,00
2	AAC8.1	10	291,00
3	AAC9.1	10	291,00
4	AAE0.1	10	325,00

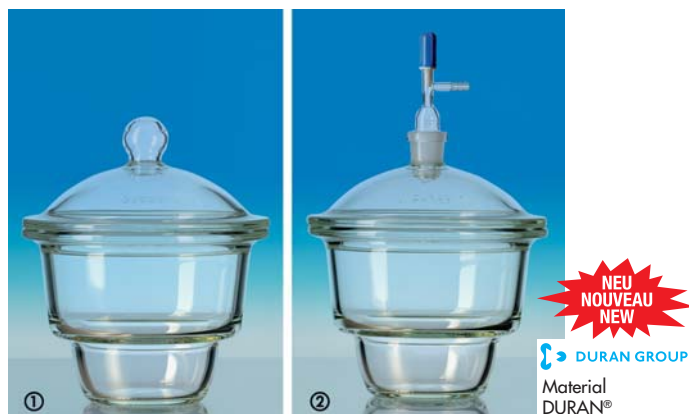
② **Immersion filters**

Micro: plate Ø 10 mm, tube: Ø 6 mm, H 100 mm

Porosity	Art. No.	Pack Qty.	€
1	AAE1.1	10	172,00
2	AAE2.1	10	172,00
3	AAE3.1	10	172,00
4	AAE4.1	10	184,00

Standard: plate Ø 35 mm, tube: Ø 10 mm, H 210 mm

Porosity	Art. No.	Pack Qty.	€
1	AAE5.1	1	39,50
2	AAE6.1	1	39,50
3	AAE7.1	1	39,50
4	AAE8.1	1	41,80



Dessicator sets

Made of DURAN®. Designed for use up to the maximum technically possible vacuum (0 mbar).

Delivery without porcelain dessicator plate. Please order separately.

① Includes lid with knob, without connection

For drying moist products as well as storage of moisture-sensitive substances.

DN	approx. volume (l)	Height (mm)	Flange ID (mm)	Flange OD (mm)	Art. No.	Pack Qty.	€
100	0,7	187	118,5	153 ±2	AHK8.1	1	97,30
150	2,4	252	172	215 ±2	AHK9.1	1	115,00
200	5,8	209	222	270 ±2	AHL0.1	1	135,50
250	10,5	357	272	320 ±2	AHL1.1	1	212,50
300	18,5	433	332	380 ±2	AHL2.1	1	321,00

② Type Novus with tube (NS 24/29) and stopcock in lid.

For faster drying or degassing of samples, vacuum can be applied via the stopcock.

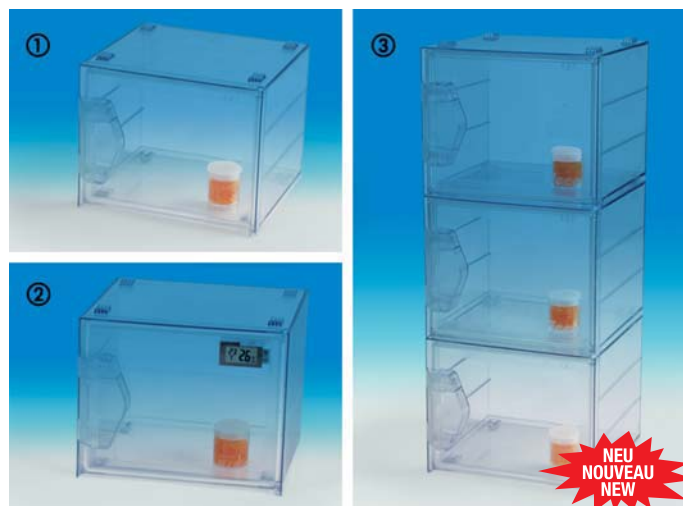
DN	approx. volume (l)	Height (mm)	Flange ID (mm)	Flange OD (mm)	Art. No.	Pack Qty.	€
100	0,7	174	118,5	153 ±2	AHL3.1	1	144,00
150	2,4	239	172	215 ±2	AHL4.1	1	154,70
200	5,8	296	222	270 ±2	AHL5.1	1	183,50
250	10,5	344	272	320 ±2	AHL6.1	1	274,70
300	18,5	420	332	380 ±2	AHL7.1	1	391,00



Standard ground glass joint stoppers

Made of PE. Anatomically shaped for easier opening and closing, sealing ribs on taper ensure optimal and leak-proof sealing. With batch code on base of stopper. Temperature stable from -40 to +80 °C

Standard taper (NS)	Colour	Art. No.	Pack Qty.	€
7/16	blue	AKH6.1	10	6,60
10/19	green	AKH7.1	10	8,70
12/21	violet	AKH8.1	10	10,40
14/23	yellow	AKH9.1	10	7,10
19/26	blue	AKK0.1	10	8,10
24/29	green	AKK1.1	10	9,40
29/32	red	AKK2.1	10	11,80
34/35	orange	AKK3.1	1	2,50
45/40	brown	AKK4.1	1	2,75



Basic and Premium mini desiccators

Made of PC. For drying and safe storage of moisture-sensitive products. Available with one, two or three interconnecting chambers.

- Ideal for small items, easy-to-use and transportable
- One-touch revolving door with all-round seal
- Rugged and lightweight design, shatterproof
- Transparent, visible all round, glare-free
- Stackable

Technical specifications:

Type	Mini 1	Mini 2	Mini 3
Usable volume (l)	6.2	2 x 6.2	3 x 6.2
Outer dimensions W x D x H (mm)	221 x 214 x 183	221 x 214 x 362	221 x 214 x 540
Usable inner volume W x D x H (mm)	212 x 180 x 162	212 x 180 x 162	212 x 180 x 162
Working temperature (°C)	-35 to +70		
Total all-over load (kg)	3		
Weight approx. (kg)	0.9	1.8	2.7

① Basic mini desiccators

Type	Art. No.	Pack Qty.	€
Mini 1 Basic	NT23.1	1	101,20
Mini 2 Basic	NT24.1	1	213,95
Mini 3 Basic	NT25.1	1	321,45

② Premium mini desiccators

Delivery incl. 2 shelves and digital thermal hygrometer with Min/Max-function for monitoring the current temperature and humidity values.

Type	Art. No.	Pack Qty.	€
Mini 1 Premium	NT26.1	1	120,40
Mini 2 Premium	NT27.1	1	233,30
Mini 3 Premium	NT28.1	1	342,95



NEU
NOUVEAU
NEW

Horizontal star desiccator

Panels made of transparent **PMMA**, frame made of reinforced aluminium. Door with all-round rubber seal and magnetic catch. Holds up to 13 shelves. For drying and safe storage of moisture-sensitive products (e.g. reference solutions, retained samples, metallographic samples, tobacco leaves, DNA samples, etc.). Integrated digital thermal hygrometer with Min/Max-function for monitoring actual temperature and moisture levels.

Technical specifications:

Total volume	45 l
Usable volume	42 l
Outer dimensions (W x H x D)	252 x 375 x 340 mm
Usable inner volume (W x D x H)	480 x 330 x 260 mm
Working temperature	-20 to +70 °C
Max. all-over load per shelf	1.5 kg
Total all-over load	30 kg
Weight	7 kg

Delivery incl. 2 variable height shelves made of stainless steel and 1 bottom pan for desiccants.

Art. No.	Pack Qty.	€
NX18.1	1	886,90



NEU
NOUVEAU
NEW

Super Star inert gas desiccator

Panels made of transparent **PMMA**, frame made of reinforced aluminium. All-round rubber door seal with magnetic strip and barrel lock. Usable with up to 26 shelves. Nitrogen or noble gases can be introduced through two gassing connections with quick couplings and self-closing valves. This allows the safe storage of air and moisture sensitive substances as well as highly reactive or toxic chemicals in an inert gas atmosphere. Integrated large digital thermal hygrometer with Min/Max-function for monitoring temperature and moisture levels.

Technical specifications:

Total volume	45 l
Usable volume	42 l
Outer dimensions (W x H x D)	310 x 375 x 525 mm
Additional space required for coupling	150 mm per side
Usable inner volume (W x D x H)	260 x 330 x 480 mm
Usage temperature	-20 to +70 °C
Max. all-over load per shelf	10 kg
Total all-over load	30 kg
Weight approx.	7.1 kg

Delivery incl. 4 variable shelves made of PMMA, bottom pan for desiccants and hoses with quick couplings for gassing.

Art. No.	Pack Qty.	€
NX20.1	1	965,35



NEU
NOUVEAU
NEW

Star Vitrum dessicator

Panels made of **type 3.3 borosilicate glass**, frame made of reinforced aluminium. Door with all-round rubber seal and magnetic catch. Usable with up to 26 shelves. For drying and safe storage of moisture-sensitive products (e.g. reference solutions, retained samples, metallographic samples, tobacco leaves, DNA samples, etc.). Ideal for suitable for storing hot materials (max. 300 °C), excellent resistance to chemicals. Integrated digital thermal hygrometer with Min/Max-function for monitoring actual temperature and moisture levels.

Technical specifications:

Total volume	45 l
Usable volume	42 l
Outer dimensions (W x H x D)	310 x 375 x 525 mm
Usable inner volume (W x D x H)	260 x 330 x 480 mm
Usage temperature	-20 to +150 °C
Max. all-over load per shelf	10 kg
Total all-over load	30 kg
Weight (approx.)	14 kg

Delivery incl. 4 variable height shelves made of stainless steel and 1 bottom pan for dessicants.

Art. No.	Pack Qty.	€
NX19.1	1	1030,95



Auto-Star desiccator

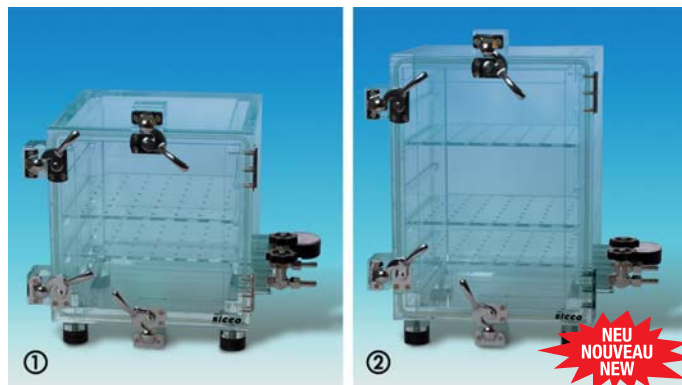
Panels made of transparent **PMMA**, frame made of reinforced aluminium. Door with all-round rubber seal and magnetic catch. Usable with up to 26 shelves. For long-term storage of moisture-sensitive materials, reference samples, electronic components, photographic equipment, papers, cultures etc. Automatic drying ensures a constant low humidity of between 20 and 30 % and compensates for frequent opening of the door. In case of power failure, the humidity level inside the desiccator does not increase for several hours thereby giving valuable samples extra protection. No need for manual regeneration of the silica gels, no need for frequent checks, space for desiccant dish can also be used. Digital thermal hygrometer with Min/Max-function for monitoring actual temperature and moisture levels.

Technical specifications:

Total volume	45 l
Usable volume	42 l
Outer dimensions (W x H x D)	310 x 375 x 525 mm
Additional space required for drying unit	60 mm (back)
Usable inner volume (W x D x H)	260 x 330 x 480 mm
Working temperature	-20 to +70 °C
Max. all-over load per shelf	10 kg
Total all-over load	30 kg
Weight (approx.)	7.3 kg
Power supply	230 V, 50 Hz

Delivery incl. 4 variable shelves made of PMMA, drying unit and thermal hygrometer.

Art. No.	Pack Qty.	€
NP95.1	1	1251,30



Vacuum desiccators

Made of transparent **PMMA**, wall thickness 25 mm. All-round silicon door seal, with 4 or 5 hinged safety locks. For contamination-free storage of air, moisture and heat sensitive products as well as for gentle drying of easily degradable and reactive substances.

Technical specifications:

Model	1	2
Usable volume (l)	17.5	24.5
Exterior dimensions W x D x H (mm)	300 x 300 x 340	300 x 300 x 440
Additional space required for valves + vacuum gauge (mm)	150	
Usable inner volume B x T x H (mm)	260 x 260 x 260	260 x 260 x 360
Working temperature (°C)	-20 to +70	
Analogue vacuum gauge display	0.1 to 0.001 MPa = 1000 to 10 mBar	
Needle valves (connector outer Ø, mm)	9.0	
Number of shelves in scope of supply / max.	2 / 3	3 / 5
Connections for hoses with internal Ø (mm)	9	
Max. all-over load per shelf (kg)	9	
Total all-over load (kg)	30	40
Weight, approx. (kg)	15	18

Delivery incl. shelves made of PMMA, analogue vacuum gauge and needle valves.

Type	Art. No.	Pack Qty.	€
①	YT39.1	1	4000,10
②	YT40.1	1	4476,30



Rotilabo®-weighing paper

Made of nitrogen-free paper.
With smooth surface for optimal sample recovery.

L x W (mm)	Art. No.	Pack Qty.	€
76 x 76	TP64.1	500	19,15
102 x 102	TP65.1	500	31,75
152 x 152	TP66.1	500	45,15



Disposable weighing pans, diamond-shaped

Made of **PS**, antistatic. Flexible pans with smooth surface for thorough emptying with minimal sample loss. FDA-compliant.
Temperature stable from -10 to +70 °C.

Natural colours, transparent

Volume (ml)	L x W x H (mm)	Art. No.	Pack Qty.	€
5	55 x 35 x 6	TP58.1	500	17,15
25	71 x 46 x 14	TP59.1	500	28,40
100	119 x 90 x 19	TP60.1	500	53,70

Black, optimal contrast, specially designed for white weighing material

Volume (ml)	L x W x H (mm)	Art. No.	Pack Qty.	€
5	55 x 35 x 6	TP61.1	500	20,20
25	71 x 46 x 14	TP62.1	500	28,40
100	119 x 90 x 19	TP63.1	500	58,00



Laboratory notebooks

For the documentation of research findings, experiment logs, important notes and data. Numbered, acid-free pages, gridded, with preprinted fields for project names, project number, date and signature.
With waterproof cover.
Dimensions: W 218 x L 281 mm.

Colour	Number of pages	Art. No.	Pack Qty.	€
black	100	YY89.1	1	20,40
black	100	YY89.2	12	203,20
blue	200	YY90.1	1	20,40



Sharpie® lab marker

Waterproof permanent marker for glass, metal, porcelain or similar surfaces. Fast-drying. Single-tip marker with 1 mm stroke width, double-tip marker with additional stroke width of 0.5 mm.

Type	Colour	Art. No.	Pack Qty.	€
Double tip	Sorted (black, blue, violet, bordeaux, light blue, light green, turquoise, orange)	XT85.1	8	29,00
Single tip	black	KN09.1	12	34,30



Rotilabo®-universal clamps

Made of powder coated metal, nickel-plated, with strong coil spring.
For storing, binding, pressing or glueing, large clamping width.
Also suitable for hanging up.

Width (mm)	Span (mm)	Art. No.	Pack Qty.	€
75	20	AEA0.1	10	31,75
125	30	AEA1.1	10	39,65

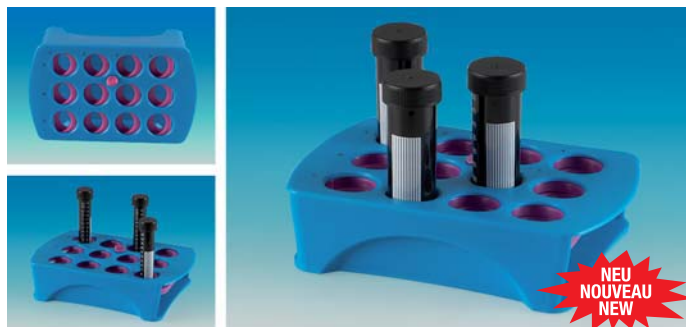


Programme extension!

Rotilabo®-clips

Made of spring steel. For DC plates, x-ray films, sheets of paper, etc.
Can be hung up.

Width (mm)	Span (mm)	Art. No.	Pack Qty.	€
19	7	ACY9.1	12	4,85
25	10	0826.1	12	5,35
41	18	0827.1	6	6,40
51	28	0850.1	6	10,70



Universal rack for test tubes

Made of PP. With 12 variable-size slots, for test tube Ø 16-30 mm. Slots can be opened by inserting the vessels or by turning a knob. Dimensions: 194 mm long x 140 mm wide x 51 mm high.

Art. No.	Pack Qty.	€
NY31.1	1	41,90



Cryo storage boxes

Made of PP. With 50 slots (13 x 13 mm) and hinged lid. For the storage of 1.5/2 ml reaction vials or cryo vials up to 2 ml. Alphanumeric coding of slots. Dimensions: 142 mm long x 92 mm wide x 56 mm high. Autoclavable.

Colour	Art. No.	Pack Qty.	€
transparent	NY15.1	5	18,85
sorted (blue, green, violet, yellow, orange)	NY16.1	5	18,85



Test tube racks, extra large

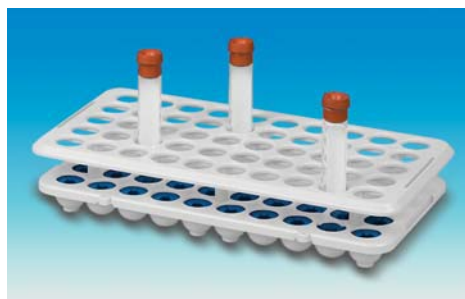
Made of PP. For applications involving high sample throughput. With alphanumeric coding

For vials Ø 10-13 mm

Colour	Slots	L x W x H (mm)	Art. No.	Pack Qty.	€
white	216	327 x 267 x 91	TP50.1	1	30,75
blue	216	327 x 267 x 91	TP51.1	1	30,75
white	432	673 x 230 x 80	TP52.1	1	59,05
blue	432	673 x 230 x 80	TP53.1	1	59,90

For vials Ø 13-16 mm

Colour	Slots	L x W x H (mm)	Art. No.	Pack Qty.	€
white	120	327 x 267 x 91	TP54.1	1	30,75
blue	120	327 x 267 x 91	TP55.1	1	30,75
white	240	521 x 260 x 89	TP56.1	1	59,05
blue	240	521 x 260 x 89	TP57.1	1	59,05



Grab Rack™ sample rack

Made of ABS. With 50 slots, Ø 18 mm. Silicon inserts hold the vials securely in place at the bottom; to empty rack, simply turn it over. Dimensions: L 259 x W 127 x H 49 mm.

Art. No.	Pack Qty.	€
NY19.1	1	18,25



Rotilabo®-storage box, slim version

Made of black PP. For 0.5 ml to 2 ml reaction vials and cryo vials

- 100 slots (12 x 12 mm)
- For tube Ø up to 12 mm, heights up to 50 mm
- Slip lid with alphanumeric coding
- Loose fitting lid, height-adjustable
- Stackable

Dimensions: L 287 x W 76 x H 38-52 mm.

Temperature stable from -80 to +135 °C. Autoclavable.

Art. No.	Pack Qty.	€
ACN0.1	1	7,75



Storage boxes with variable partitioning

Made of **PP**, transparent, with slip lid. For storage of reaction vials, cryo vials and other sample containers. Please order variable dividers separately. Temperature stable to -196 °C. Autoclavable.

Technical specifications:

Number of dividers	Slots	Compartment size (mm)
2	4	50 x 55 to 65 x 65
3	6	40 x 50 to 40 x 65
4	9	40 x 40
6	12	25 x 40
8	16	25 x 25
10	27	12 x 40
12	36	12 x 25
16	81	12 x 12

Storage boxes

- 4 to 81 slots
- Variable partitioning, by using between 2 and 16 dividers
- Height-adjustable lid, locks at 43 mm, 50 mm and 55 mm

Dimensions: L 130 x W 130 x H 43-55 mm.

Art. No.	Pack Qty.	€
ACL8.1	5	17,75

Dividers

Made of **PP**, for flexible partitioning of ACL8.1 storage boxes. Dimensions: L 121 x H 30 mm, thickness 1 mm.

Art. No.	Pack Qty.	€
ACL9.1	16	6,25



Ice container racks

Made of **PS**, for filling with ice or water. Exact-fit rack holds samples securely in ice. Stackable.

For vials (ml)	Number of vials	L x W x H (mm)	Art. No.	Pack Qty.	€
1,5/2	50	271 x 142 x 56	NY13.1	1	34,20
15/50	15	276 x 164 x 134	NY14.1	1	34,20



Rotilabo®-cryo storage box

Made of **PC**, transparent, with hinged lid and coloured insert. For cryo vials, screw vials and reaction vials up to 5 ml.

Also suitable for storage of larger vials thanks to removable insert.

- 81 slots
- For vial Ø 12-13 mm, heights up to 93 mm
- With embossed numeric coding
- Stackable

Dimensions: L 145 x W 142 x H 97 mm.

Temperature stable to -196 °C. Autoclavable.

Art. No.	Pack Qty.	€
ACL7.1	1	9,05



Cooling boxes

Made of **PC**, gel-filled. For cooling heat-sensitive samples such as PCR reagents or enzymes in the laboratory.

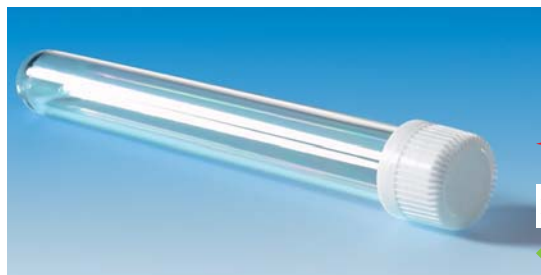
- With non-slip rubber feet
- Type 0.2 ml is also suitable for PCR plates

Technical specifications:

Lid	Temp. constancy	For vial type	Number of vials	Art. No.
Transparent	-15 °C to 2.5 hrs.	0.5-2 ml*	12 (3 x 4)	NY09.1
Transparent	-15 °C to 3.5 hrs.	0.5-2 ml*	32 (4 x 8)	NY10.1
Gel-filled	-15 °C to 5 hrs.	0.5-2 ml*	32 (4 x 8)	NY11.1
Transparent	-15 °C to 3.5 hrs.	0.2 ml	96 (8 x 12)	NY12.1

*Delivery incl. adapter for 0.5 ml reaction vials

For test tubes	L x W x H (mm)	Art. No.	Pack Qty.	€
12 (0.5-2 ml)	145 x 105 x 100	NY09.1	1	77,95
32 (0.5-2 ml)	245 x 105 x 100	NY10.1	1	77,95
32 (0.5-2 ml)	245 x 105 x 100	NY11.1	1	149,95
96 (0.2 ml)	225 x 165 x 110	NY12.1	1	149,95



Sterile culture vials with screw cap

Made of **PS**. Cap made of **HDPE**. **Sterile**. Centrifugable to 3000 x g. Coloured lid inserts for identification are optional (CK72.1ff). Volume 8 ml. Dimensions: Ø 13 x L 100 mm. Temperature resistant in the range -80 to +80 °C.

Art. No.	Pack Qty.	€
AEL3.1	1000 (8 x 125)	241,90



Square petri dishes with grid

Made of **PS**. **Sterile**. Ideal for phage typing, colony counting etc. With 13 mm grid on bottom, alphanumeric identification markings. With vents to avoid condensation. Dimensions: L 100 x W 100 x H 15 mm, volume 110 ml.

Art. No.	Pack Qty.	€
AEL9.1	500 (50 x 10)	188,15



Petri dishes

Made of **PS**. **Sterile**. Stackable, tight-sealing and therefore suitable for long incubation times without drying out. Lid with matt white labelling space and projecting edge for single-handed opening. For use with filter paper Ø 47 mm. Optionally available with absorptive paper, e.g. for cultivating plant seedlings. Dimensions: Ø 50 mm x H 9 mm.

Type	Art. No.	Pack Qty.	€
without absorptive paper	AEN0.1	500 (25 x 20)	97,85
with absorptive paper	AEN1.1	500 (25 x 20)	112,90



Liquid sample bags with sponge tester

Whirl-Pak®. Bag made of **LDPE**, material thickness 3 mm, with labelling space. Stem and holder made of **PP**, sponge made of non-growth-inhibiting cellulose. Overall length (holder + sponge) 20.3 cm. **Sterile**. For collecting surface samples in hard-to-reach areas.

Procedure:

Moisten sponge, squeeze off excess liquid, wipe across surface, place sponge back in bag. Hold stem on outside, unscrew and dispose of. Allow sponge to drop into bag and seal bag.

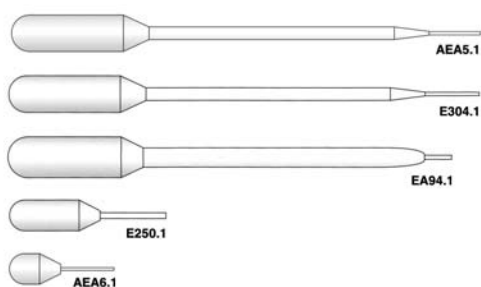
Volume (ml)	Filling quantity (ml)	W x H (mm)	Art. No.	Pack Qty.	€
710	480	150 x 230	ACP7.1	50	148,35



Macro embedding moulds

Made of **PVC**. With smooth inner surface and rounded corners for easy sampling. Suitable for Macro embedding cassettes (EE16.1). Volume 5 ml. Dimensions: L 37 x W 24 x H 20 mm.

Art. No.	Pack Qty.	€
AEK8.1	500	64,00



Programme extension!



Pasteur pipettes with ultra-thin tip, ungraduated

Made of transparent polyethylene (LDPE) precision-formed, unbreakable, non toxic and with controlled, reproducible drop size. Outer-Ø tip 1,1 mm (E250.1 Ø 1.5 mm).

Type	Filling capacity (ml)	Drop size (µl)	Drops per ml	Length (mm)	Art. No.	Pack Qty.	€
sterile, single/pack.	3,5	20	50	157	AEA5.1	400	72,15
unsterile	3,5	20	50	157	E304.1	500	39,70
unsterile	3,3	18	55	147	EA94.1	500	38,70
unsterile	1,0	22	45	51	E250.1	500	35,40
unsterile	0,5	25	40	36	AEA6.1	500	32,05



True North® cryo vials

Made of **PP. Sterile**. Lid and vessel with identical Ø (13 mm), therefore also suitable for 10 x 10 cryo box format. Suitable for storage in deep freezers or liquid nitrogen (gas phase). Temperature stable from -196 to +121 °C. Autoclavable.

- Lid with external thread and silicon seal
- With labelling space and graduations
- RNase/DNase-free, non-pyrogenic and non-cytotoxic

Volume (ml)	Type	Length (mm)	Art. No.	Pack Qty.	€
2	Sorted (lid colour blue, red, green, violet, grey)	49	TP67.1	500 (10 x 50)	135,45
2	transparent	49	XT57.1	500 (10 x 50)	135,45
4	transparent	88	XT58.1	200 (4 x 50)	102,15



Flip & Grip™ pipette carousel

Carousel stand for the most common pipette brands. Holds up to 12 single-channel pipettes (6 on the handle + 6 attached to the pipetting button) or 3 multichannel plus 3 single-channel pipettes. With heavy base for secure positioning on laboratory benchtops. Pipette holder can be bolted upside down under a rack for space-saving storage. Dimensions: Ø 332 mm x H 193 mm.

Colour	Art. No.	Pack Qty.	€
blue	XT82.1	1	64,45
mint green	XT83.1	1	64,45
magenta	XT84.1	1	64,45



Magnetic storage containers

Made of **ABS**, with four magnets.

For attaching to clean benches, extractors or other metallic surfaces.

Delivery incl. metal plate for attaching, self-adhesive.

Type	For	L x W x H (mm)	Art. No.	Pack Qty.	€
①	Tissue boxes AA64.1 (213 x 114 mm)	130 x 91 x 98	ACL3.1	1	20,40
②	4 x 50 ml + 9 x 15 ml centrifuge tubes	131 x 112 x 64	ACL4.1	1	20,40
③	2 microlitre pipettes	131 x 112 x 76	ACL5.1	1	20,40
④	Small items	130 x 78 x 102	ACL6.1	1	20,40



NEU
NOUVEAU
NEW

Fahrenheit™ safety goggles

By 3M. Acc. to EN 166. PC lenses, clear, with anti-scratch and anti-fog coating. Light blue frame. Indirect ventilation, adjustable nylon head band. Suitable for wearing with corrective spectacles and respiratory half masks. **Delivery incl.** microfibre bag.

3M No.	Art. No.	Pack Qty.	€
FheitAF	AKX2.1	1	10,65



NEU
NOUVEAU
NEW

Bag for full-face masks

By 3M. Bag for carrying and storage of full face masks. Dimensions: H x W x D: 280 x 320 x 190 mm.

3M No.	Art. No.	Pack Qty.	€
107	AKX0.1	1	42,95



①



②

Programme
extension!

Respiratory masks 4000 Plus-series

By 3M. Acc. to EN 405: 2001 + A1:2009. Ready-to-use half masks, maintenance free, comfortable and high quality. Integrated filters allow long service life. With exhalation valve, large field of vision and special head band for optimal weight distribution. Combinable with safety goggles and ear protection. Delivered in an airtight, resealable bag.

① FFA1P2 RD

Protects against organic gases and vapours (boiling point >65 °C) up to 1000 ppm and against solid and liquid particles up to 10x occupational exposure limit.

3M No.	Art. No.	Pack Qty.	€
4251	9750.1	1	23,45

① FFABE1P3 RD

Protects against organic and inorganic gases and vapours, as well as SO₂/HCl up to 1000 ppm and against solid and liquid particles of harmful substances up to 30x occupational exposure limit.

3M No.	Art. No.	Pack Qty.	€
4277	C272.1	1	32,15

① FFA2P3 RD

Protects against organic gases and vapours (boiling point >65 °C) up to 5000 ppm and against solid and liquid particles of harmful substances up to 30x occupational exposure limit.

3M No.	Art. No.	Pack Qty.	€
4255	E347.1	1	29,50

① FFABEK1P3 RD

Protects against organic and inorganic gases and vapours, as well as SO₂/HCl and ammonia up to 1000 ppm and against solid and liquid particles of harmful substances up to 30x occupational exposure limit.

3M No.	Art. No.	Pack Qty.	€
4279	L162.1	1	35,40

② Particle prefilter for 4000 series masks

Protects against coarse particles and extends the useful life of the mask.

3M No.	Art. No.	Pack Qty.	€
400	AKX1.1	10	11,85



PELTOR™ Kid ear muffs

By 3M. Acc. to EN 352-1. Specially designed for sensitive children's ears. These comfortable ear muffs have an extra-slim profile and offer child-friendly wearing comfort. The unique, low head band design ensures a constant, low contact pressure. The liquid-filled, soft and wide sealing rings provide a perfect seal with a minimum of contact pressure for comfortable wearing. Matching hygiene set: NH21.1 (please order separately). Colour: neon green, SNR value 27 dB.

Art. No.	Pack Qty.	€
AKX4.1	1	21,45



Cat. III

Protective suits 4530+ series

By 3M. Type 5/6, particle-tight and limited spray-tight protective overalls. Made of a special multilayer polypropylene material (outer layers of meltblown PP, inner layers of spunbond PP) with hood. Sleeves with knitted cuffs. Concealed 2-way zipper.

- Antistatic treated on inside and outside acc. to EN 1149, low-linting
- High mobility
- High water vapour permeability
- Colour: white

Applications: insulating work, cement production, grinding/sanding and polishing, light industrial cleaning, machine maintenance, working in the pharmaceuticals industry.

Size	3M No.	Art. No.	Pack Qty.	€
S	4530+WS	AKY1.1	1	10,55
M	4530+WM	AKY2.1	1	10,55
L	4530+WL	AKY3.1	1	10,55
XL	4530+WXL	AKY4.1	1	10,55
XXL	4530+W2XL	AKY5.1	1	10,55
XXXL	4530+W3XL	AKY6.1	1	10,55



Laboratory emergency kit

By 3M. Absorption capacity for approx. 5 l of spilled liquids. Contents: 10 sorbent pads, 1 sorbent pillow, 1 waste disposal bag.

Art. No.	Pack Qty.	€
AKX3.1	1	53,70



Office chairs

- Large PU seat and PU backrest, black
- Continuous seat and backrest adjustment
- 12 ° seat inclination adjustment
- Plastic feet with concealed safety gas spring
- Large, non-slip floor glides or load-responsive braked double castors
- Optionally available with footrest, footrest height is adjustable independently of seat height
- Compliant with DIN 68877

Model	Seat height (mm)	Art. No.	Pack Qty.	€
① Glides, without footrest	440-630	ALC5.1 *	1	192,45
② Castors, without footrest	500-690	ALC6.1 *	1	203,20
③ Glides, with footrest	440-630	ALC7.1 *	1	223,60

* Delivery times may apply to these products. Please ask our sales staff.



Swivel stool, padded

- Soft seat made of durable synthetic leather
- Seat Ø 360 mm, seat thickness 90 mm, padded
- Release ring
- Plastic feet Ø 630 mm, with double castors
- Safety gas spring for quick seat height adjustment

Colour	Seat height (mm)	Art. No.	Pack Qty.	€
red	480-680	ALH2.1	1	123,65
blue	480-680	ALH3.1	1	123,65
black	480-680	ALH4.1	1	123,65



Office chairs, high

- Seat and backrest made of PU foam
- Tilting backrest can be adjusted in height and inclination
- Infinitely variable seat height adjustment
- Type ② with adjustable seat inclination (12°)
- Extremely stable tubular steel feet
- Three integrated footrests at different heights
- Glides
- Safety gas spring
- Compliant with DIN 68877

Type	Seat and backrest	Seat height (mm)	Art. No.	Pack Qty.	€
①	PU, black	480-880	Y712.1 *	1	235,45
①	Beech, natural	480-880	Y713.1 *	1	213,95
②	PU, black	480-880	ALC8.1 *	1	256,95

* Delivery times may apply to these products. Please ask our sales staff.



Stool with all-round footrest

- Thanks to the integrated footrest, seat heights of up to 740 mm are possible.
- Seat made of PU foam, black
- Safety gas spring
- Sturdy steel feet, glides
- All-round footrest for excellent support

Seat height (mm)	Art. No.	Pack Qty.	€
540-740	ALH5.1	1	134,40



Swivel stool, stainless steel

- Seat made of PU foam with stainless steel inlay
- Stainless steel feet with stainless steel safety gas spring
- Easy to clean
- Rust free

Colour	Model	Seat height (mm)	Art. No.	Pack Qty.	€
blue	Glides	440-630	ALC9.1	1	319,30
blue	Castors	500-690	ALE0.1	1	341,85
black	Glides	440-630	ALE1.1	1	305,30
black	Castors	500-690	ALE2.1	1	326,80



Office chairs, stainless steel

- Large PU seat and PU backrest with stainless steel inlay
- Infinitely variable seat and backrest adjustment
- Stainless steel feet with stainless steel safety gas spring
- Easy to clean
- Rust free
- Optionally available with footrest, folds up variably (please order separately)
- Compliant with DIN 68877

Colour	Model	Seat height (mm)	Art. No.	Pack Qty.	€
blue	Glides	440-630	ALE7.1	1	611,70
blue	Castors	500-690	ALE8.1	1	638,55
black	Glides	440-630	ALE9.1	1	599,85
black	Castors	500-690	ALH0.1	1	621,35

Accessories:

Footrest made of stainless steel	ALH1.1 *	1	155,90
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* These products may be subject to delivery times. Please consult our sales department.



Stackable stools, stainless steel

- Seat made of PU foam with stainless steel inlay
- Tubular stainless steel frame
- Easy to clean
- Rust free

Colour	Seat height (mm)	Art. No.	Pack Qty.	€
blue	500	ALE3.1	1	171,80
blue	580	ALE4.1	1	181,70
black	500	ALE5.1	1	150,00
black	580	ALE6.1	1	178,45



DuraPorter™ safety containers

Made of PC, with watertight silicon seal. Ideal for in-house transportation of biological and chemical samples, instruments or for storage. Transparent box with hinged lid, three snap locks and carry handle, stackable. Partitionings for smaller samples can be removed to make use of the entire interior. Lid can be fully opened for easy filling and cleaning. Dimensions: 380 mm long x 196 mm wide x 160 mm high. Autoclavable.

Colour	Art. No.	Pack Qty.	€
transparent/blue	AAA0.1	1	75,20
red	AAA1.1	1	75,20
yellow	AAA2.1	1	75,20



Peristaltic-pumps PD 5201/PD 5206

By Heidolph. For conveying and metering liquids.

- Digital display
- Metering volume 0.1 - 9999 ml
- Intermittent metering
- Simple calibration of delivery and metering volumes
- With maximum speed button for faster filling and drainage of tubing
- Constant speed even under varying load
- Reversible direction of rotation (ccw/cw)
- Stackable housing (max. 2 pump drives)
- Analog and digital (RS 232) interfaces

Characteristics of pump head:

- For tubing wall thickness of 1.6 mm
- Tubing outer diameters of between 4 mm and 9.5 mm are freely selectable
- Low pulsation is ensured by 5 rollers
- Easy and quick tubing replacement
- Stainless steel rollers and roller mounts

Technical specifications:

Type	PD 5201	PD 5206
Delivery rate (ml/min)	0.4-409	2-2072
Speed (rpm)	5-120	24-600
Control accuracy (%)	±0.5	±0.5
Motor power (W)	100	100
Weight excluding pump head (kg)	8.3	7.7
Dimensions W x D x H (mm)	166 x 256 x 225	

Delivery rates are dependent on tubing size (wall thickness 1.6 mm):

Inner Ø (mm)	0.8	1.7	3.1	4.8	6.3
Outer Ø (mm)	4.0	4.9	6.3	8.0	9.5
Delivery rate/PD 5201 (ml/min)	0.4-9	2-40	5-126	12-233	17-409
Delivery rate/PD 5206 (ml/min)	2-33	8-186	26-653	59-1529	89-2072

Delivery incl. pump head SP quick 1.6 and 1 m of Tygon® and 1 m of silicone rubber tubing (inner Ø 3.1 mm).

Type	Art. No.	Pack Qty.	€
PD 5201	AHA1.1 *	1	2783,00
PD 5206	AHA2.1 *	1	2701,00

* These products may be subject to delivery times. Please consult our sales department.



Programme extension!

TLC spray unit

Ecospray for spraying aqueous reagents and indicator solutions. Spray nozzle made of PET. Tube made of plastic, nozzles made of metal and 125 ml screw-top bottle made of PET. Dimensions: W 10 x D 13 x H 5 mm. Propellant canister sufficient for spraying 300 ml of liquid.

Set 1: delivery incl. DC spray unit and propellant canister (1,1,1,2-tetrafluorethane)

Type	Art. No.	Pack Qty.	€
Set 1	YT53.1	1	50,35
Replacement 1,1,1,2 tetrafluorethane propellant canister	YT54.2	4	64,50

Set 2: delivery incl. DC spray unit and economy propellant canister (n-butane, isobutane, propane)

Danger H224-H280

Type	Art. No.	Pack Qty.	€
Set 2	ALC4.1	1	50,35
Replacement economy propellant canister	YT55.1	12	120,40

Spare bottles for TLC sprayer unit

Volume (ml)	Material	Art. No.	Pack Qty.	€
125	PET	YT56.1	3	8,55
50	Glass, brown	YT57.1	5	16,15
75	Aluminium	YT58.1	3	18,30

Spare spray valves with tubing for TLC sprayer unit

With varying opening dimensions at the tip: 50, 75, 100 and 130 µm.

Art. No.	Pack Qty.	€
YT59.1	4	18,10



Practum®-series analytical and precision balances

By Sartorius.

Applications:

- Percent weighing, checking, maximum value, counting, animal weighing
- Selectable weight units: g, kg, mg, ct etc.
- Made in Germany

Equipment:

- With external calibration function
- Touchscreen operation
- 10 different menu language options can be selected
- Full-sized draft shield for models with 0.0001 g / 0.001 g resolution (internal height 209 mm)
- Mini-USB port for automatic detection of Sartorius standard printer YDP40 (please order separately) or direct data transfer e.g. to Microsoft® Excel without additional software. Programmable interval for data output
- Menu lock for protection against accidental manipulation
- Levelling feet and glass level indicator on the front
- Anti-theft device for chain or cable

Technical specifications:

Model	Weighing range (g)	Resolution (g)	Reproducibility/linearity (±g)	Weighing pan Ø (mm)
64-1S (W)	60	0,0001	0,0001/0,0002	90
124-1S (W)	120	0,0001	0,0001/0,0003	90
224-1S (W)	220	0,0001	0,0001/0,0003	90
213-1S (W)	210	0,001	0,001/0,003	120
313-1S (W)	310	0,001	0,001/0,003	120
513-1S (W)	510	0,001	0,001/0,002	120
412-1S*	410	0,01	0,01/0,03	180
612-1S*	610	0,01	0,01/0,03	180
1102-1S*	1100	0,01	0,01/0,03	180
2102-1S*	2100	0,01	0,01/0,03	180
3102-1S*	3100	0,01	0,01/0,03	180
2101-1S*	2100	0,1	0,1/0,3	180
5101-1S*	5100	0,1	0,1/0,3	180
6101-1S*	6100	0,1	0,1/0,3	180
5100-1S*	5100	1	1/1	180
6100-1S*	6100	1	1/1	180

(W) = incl. draft shield and dust cover; * incl. protective cover for operation

Delivery incl. universal mains-adaptor (100-240 V) and matching external calibration weight.

Model	Weighing range (g)	Art. No.	Pack Qty.	€
64-1S (W)	60	AHC2.1 *	1	1800,00
124-1S (W)	120	NN46.1 *	1	1900,00
224-1S (W)	220	NN45.1 *	1	2000,00
213-1S (W)	210	NN48.1 *	1	1250,00
313-1S (W)	310	NN47.1 *	1	1400,00
513-1S (W)	510	AHC3.1 *	1	1700,00
412-1S	410	AHC4.1 *	1	950,00
612-1S	610	NN51.1 *	1	1100,00
1102-1S	1100	NN50.1 *	1	1200,00
2102-1S	2100	NN49.1 *	1	1400,00
3102-1S	3100	AHC5.1 *	1	1600,00
2101-1S	2100	AHC6.1 *	1	1000,00
5101-1S	5100	NN52.1 *	1	1200,00
6101-1S	6100	AHC7.1 *	1	1300,00
5100-1S	5100	NN53.1 *	1	900,00
6100-1S	6100	AHC8.1 *	1	1000,00

Accessories:

Standard laboratory printer YPD 40 incl. printer paper and connecting cable	NN54.1 *	1	399,00
Printer paper rolls for printer YDP 40	NN56.1 *	5	19,50
Mini-USB/USB A data cable	NN55.1 *	1	30,50

* These products may be subject to delivery times. Please consult our sales department.



LED light panels

Ultra-flat, compact daylight light panel. Uniform illumination.

Life span of LEDs: approx. 10000 h.

Type ③ with fold-out feet and terminal block, suitable for wall mounting.

Technical specifications:

Type	①	②	③
Illuminated area (mm)	100 x 125	180 x 130	300 x 200
Housing dimensions W x H x D (mm)	160 x 14 x 150	220 x 21 x 190	370 x 25 x 280
Number of LEDs	12	20	60
Colour temperature (K)	5000		
Power (W)	1.2	2	6
Weight (g)	260	550	1300
Power supply	6 x 1.5 V micro/AAA, mains operation optional	6 x 1.5 V mignon/AA, mains operation optional	Mains operation

Delivery incl. protective sleeve. Types ① + ② do not include battery and mains-adaptor. Please order separately. Type ③ **includes** mains-adaptor.

Type	Art. No.	Pack Qty.	€
①	AHK1.1	1	53,25
②	AHK2.1	1	75,05
③	AHK3.1	1	188,15

Accessories:

AC adapter for AHK1.1 and AHK2.1	AHK4.1	1	27,85
1.5 V micro/AAA battery	1021.2	4 pieces	5,95
1.5 V mignon/AA battery	1022.2	4 pieces	5,60



Programme extension!

Quintix®-series analytical and precision balances

By Sartorius.

Applications:

- Mixing, components, statistics, conversion, percent weighing, checking, maximum value, counting, animal weighing
- Made in Germany

Equipment:

- With isoCAL - fully automatic, temperature and time controlled internal calibration
- Touchscreen with easy menu navigation
- 10 different menu language options can be selected
- Full-sized draft shield for models with 0.0001 g / 0.001 g resolution (internal height 209 mm)
- Mini-USB port for automatic detection of Sartorius standard printer YDP40 (please order separately) or direct data transfer e.g. to Microsoft® Excel without additional software. Programmable data output interval
- Password protection - menu lock for protection against accidental manipulation
- Levelling feet and glass level indicator on the front
- Anti-theft device for chain or cable

Technical specifications:

Model	Weighing range (g)	Resolution (g)	Reproducibility/linearity (±g)	Weighing pan Ø (mm)
64-1S / -1CEU (W)	60	0,0001	0,0001/0,0002	90
124-1S / -1CEU (W)	120	0,0001	0,0001/0,0002	90
224-1S / -1CEU (W)	220	0,0001	0,0001/0,0002	90
213-1S / -1CEU (W)	210	0,001	0,001/0,002	120
313-1S / -1CEU (W)	310	0,001	0,001/0,002	120
513-1S / -1CEU (W)	510	0,001	0,001/0,002	120
613-1S / -1CEU (W)	610	0,001	0,001/0,002	120
412-1S / -1CEU*	410	0,01	0,01/0,03	180
612-1S / -1CEU*	610	0,01	0,01/0,03	180
1102-1S / -1CEU*	1100	0,01	0,01/0,03	180
2102-1S / -1CEU*	2100	0,01	0,01/0,03	180
3102-1S / -1CEU*	3100	0,01	0,01/0,02	180
5102-1S / -1CEU*	5100	0,01	0,01/0,02	180
6102-1S / -1CEU*	6100	0,01	0,01/0,02	180
2101-1S / -1CEU*	2100	0,1	0,1/0,3	180
5101-1S / -1CEU*	5100	0,1	0,1/0,3	180
6101-1S / -1CEU*	6100	0,1	0,1/0,3	180
5100-1S / -1CEU*	5100	1	1/1	180
6100-1S / -1CEU*	6100	1	1/1	180

(W) = incl. draft shield and dust cover; * incl. protective cover for operation

Delivery incl. universal mains-adaptor (100-240 V).

Model	Weighing range (g)	Pack Qty.	Art. No.	Internal calibration, non-calibrating €	Art. No.	Internal calibration, calibrated ex works €
64-1S / -1CEU (W)	60	1	AHC9.1 *	2580,00	AHE0.1 *	2827,00
124-1S / -1CEU (W)	120	1	NN59.1 *	2771,00	NN60.1 *	3018,00
224-1S / -1CEU (W)	220	1	NN57.1 *	3080,00	NN58.1 *	3327,00
213-1S / -1CEU (W)	210	1	NN65.1 *	2009,00	NN66.1 *	2205,00
313-1S / -1CEU (W)	310	1	NN63.1 *	2163,00	NN64.1 *	2308,00
513-1S / -1CEU (W)	510	1	NN61.1 *	2575,00	NN62.1 *	2771,00
613-1S / -1CEU (W)	610	1	AHE1.1 *	2780,00	AHE2.1 *	2976,00
412-1S / -1CEU	410	1	AHE3.1 *	1450,00	AHE4.1 *	1646,00
612-1S / -1CEU	610	1	NN75.1 *	1597,00	NN76.1 *	1793,00
1102-1S / -1CEU	1100	1	NN73.1 *	1803,00	NN74.1 *	1999,00
2102-1S / -1CEU	2100	1	NN71.1 *	2009,00	NN72.1 *	2205,00
3102-1S / -1CEU	3100	1	NN69.1 *	2112,00	NN70.1 *	2359,00
5102-1S / -1CEU	5100	1	NN67.1 *	2730,00	NN68.1 *	2926,00
6102-1S / -1CEU	6100	1	AHE5.1 *	2930,00	AHE6.1 *	3216,00
2101-1S / -1CEU	2100	1	AHE7.1 *	1650,00	AHE8.1 *	1846,00
5101-1S / -1CEU	5100	1	NN77.1 *	1850,00	NN78.1 *	2046,00
6101-1S / -1CEU	6100	1	AHE9.1 *	1950,00	AHH0.1 *	2146,00
5100-1S / -1CEU	5100	1	NN79.1 *	1500,00	NN80.1 *	1696,00
6100-1S / -1CEU	6100	1	AHH1.1 *	1650,00	AHH2.1 *	1846,00

Accessories:

Standard laboratory printer YDP 40 incl. printer paper and connecting cable	NN54.1 *	1	399,00
Printer paper rolls for printer YDP 40	NN56.1 *	5	19,50
Mini-USB/USB A data cable	NN55.1 *	1	30,50

* These products may be subject to delivery times. Please consult our sales department.



Secura®-series analytical and precision balances

By Sartorius.

Applications:

- Mixing, components, statistics, conversion, percent weighing, checking, maximum value, counting, animal weighing
- Made in Germany

Equipment:

- With isoCAL - internal calibration is performed automatically in a time or temperature controlled manner and after levelling
- Touchscreen optimised for users in the pharmaceuticals laboratory
- **Optoelectronic levelling sensor with interactive user guidance** (if the sensor detects deviations, the risk is indicated immediately and a specific help text is displayed)
- 10 different menu language options can be selected
- Full-sized draft shield for models with 0.0001 g / 0.001 readability (inside height 209 mm)
- Three configurable safety levels
- Mini-USB port for automatic detection of Sartorius standard printer YDP40 (please order separately) or direct data transfer e.g. to Microsoft® Excel without additional software. Programmable interval for data output
- Storage of completed calibration cycles incl. detected deviation

APC functions (Advanced Pharma Compliance) are possible:

- Monitoring of minimum sample weight according to USP
- Blocking of data transfer to printer or computer in case of uncertain weighing results e.g. unlevelled balance etc.

Please note:

Activation of the APC functions by a separate service.

If this service is desired, additional costs apply. Please consult our sales department.

Technical specifications:

Model	Weighing range (g)	Resolution (g)	Reproducibility/linearity (±g)	Weighing pan Ø (mm)
124-1S / -1CEU (W)	120	0.0001	0.0001/0.0002	90
224-1S / -1CEU (W)	220	0.0001	0.0001/0.0002	90
213-1S / -1CEU (W)	210	0.001	0.001/0.002	120
313-1S -1CEU (W)	310	0.001	0.001/0.002	120
513-1S / -1CEU (W)	510	0.001	0.001/0.002	120
1102-1S / -1CEU*	1100	0.01	0.01/0.02	180
2102-1S / -1CEU*	2100	0.01	0.01/0.02	180
3102-1S / -1CEU*	3100	0.01	0.01/0.02	180
5102-1S / -1CEU*	5100	0.01	0.01/0.02	180

(W) = incl. draft shield and dust cover; * incl. protective cover for operation

Delivery incl. universal mains-adaptor (100-240 V).

Model	Weighing range (g)	Pack Qty.	Internal calibration, non-calibrating		Internal calibration, calibrated ex works	
			Art. No.	€	Art. No.	€
124-1S / -1CEU (W)	120	1	NN83.1 *	3526,00	NN84.1 *	3776,00
224-1S / -1CEU (W)	220	1	NN81.1 *	3911,00	NN82.1 *	4160,00
213-1S / -1CEU (W)	210	1	NN89.1 *	2548,00	NN90.1 *	2746,00
313-1S / -1CEU (W)	310	1	NN87.1 *	2704,00	NN88.1 *	2902,00
513-1S / -1CEU (W)	510	1	NN85.1 *	3276,00	NN86.1 *	3474,00
613-1S / 1CEU (W)	610	1	AHH3.1 *	3400,00	AHH4.1 *	3598,00
612-1S / 1CEU	610	1	AHH5.1 *	2100,00	AHH6.1 *	2298,00
1102-1S / -1CEU	1100	1	NN97.1 *	2288,00	NN98.1 *	2486,00
2102-1S / -1CEU	2100	1	NN95.1 *	2496,00	NN96.1 *	2694,00
3102-1S / -1CEU	3100	1	NN93.1 *	2652,00	NN94.1 *	2850,00
5102-1S / -1CEU	5100	1	NN91.1 *	3432,00	NN92.1 *	3630,00
6102-1S / -1CEU	6100	1	AHH7.1 *	3650,00	AHH8.1 *	3848,00

* Please check with our Sales Department for delivery period of this product.



TCS-series thermostat cabinets

By Aqualytic. For continuous temperature control in different applications, e.g. microbiological research, BSB requirements etc.

- Temperature range +2 to +40 °C, infinitely adjustable in 0.1 °C increments
- Illuminated LED temperature display for actual/nominal values
- Temperature constancy ± 1.0 °C
- With internal sockets for devices which require a power supply, e.g. magnetic stirrer
- Built-in cooling and heating units
- Lockable door
- With height-adjustable grids

Technical specifications:

Type	TC 135 S / TC 140 G	TC 175 S	TC 255 S / TC 256 G	TC 445 S
Cooling capacity (l)	135/140	175	255/255	445
Inserts:				
Grids	3	3	4	4
Bottom grid	1	1	1	1
Outer dimensions (mm):				
Width	600 (600*)	600	600	750
Depth	600 (600*)	610	610	730
Height	850 (819*)	1250	1640	1640
Inner dimensions (mm):				
Width	513	470	470	600
Depth	441	440	440	560
Height	702	1062	1452	1452
Sockets in usable space (pc.)	4	5	7	9
Weight (kg)	39 / 50	51	61 / 77	78.5
Power supply	220-240 V, 50 Hz			

*Outer dimensions excluding worktop.

With standard door

Type	Art. No.	Pack Qty.	€
TC 135 S	AKX5.1 *	1	1536,20
TC 175 S	AKX6.1 *	1	1941,45
TC 255 S	AKX7.1 *	1	2089,80
TC 445 S	AKX8.1 *	1	2472,50

With glass door, double insulating glass with ABS frame

Type	Art. No.	Pack Qty.	€
TC 140 G	AKX9.1 *	1	1763,00
TC 256 G	AKY0.1 *	1	2289,75

* Delivery times may apply to this product. Please ask our sales staff.



Laboratory fridges, explosion-proof

Explosion-proof in accordance with the guidelines on "Working Safely in Laboratories BG-I 850-0". Enclosed spaces in which hazardous, explosive atmospheres can develop, e.g. rooms where flammable liquids are stored, must be explosion-protected.

- Cooling temperature is infinitely variable from +1 to +15 °C.
- Selectable temperature ranges:
1 (= lowest cooling capacity) to 5 (= highest cooling capacity)
- Mechanical control unit
- Digital temperature display (resolution 1 °C)
- Sheet steel housing with impact resistant powder coating
- With lockable door and height-adjustable glass base
- Dynamic cooling system (with forced air ventilation)
- Models EX 200, EX 300 and EX 490 have a fan stop function which switches off the fan when the door is opened
- Automatic condensation drainage into inner catch tank

Technical specifications:

Type	EX 160	EX 220	EX 300	EX 490
Cooling capacity (l)	160	220	300	490
Number of glass shelves	3	4	5	5
Outer dimensions (mm):				
Width	600	600	600	750
Depth	600	610	610	730
Height	860	1250	1640	1640
Inner dimensions (mm):				
Width	513	470	470	600
Depth	441	440	440	560
Height	702	1062	1452	1452
Weight (kg)	40	53	64	84
Power supply	220-240 V, 50 Hz			

Delivery incl. height-adjustable glass shelves.

Type	Art. No.	Pack Qty.	€
EX 160	AKY7.1 *	1	946,00
EX 220	AKY8.1 *	1	1015,90
EX 300	AKY9.1 *	1	1204,00
EX 490	ALA0.1 *	1	1352,35

* Please check with our Sales Department for delivery period of these products.



LCD hot air gun HG 2320 E

Electronically controlled with continuously variable air flow rate and temperature control. Visual display of temperature and speed (resolution in 10-°C increments) via LCD. Residual heat display. 4 stored programs for temperature and air flow. With softgrip handle.

Technical specifications:

Output	2300 W
Temperature	Setting 1: 80 °C Setting 2: 80 to 650 °C
Air flow	Setting 1: 150 l/min Setting 2: 150 to 500 l/min
Dimensions (L x W x H)	253 x 86.5 x 200 mm
Weight	960 g
Voltage	230 V, 50/60 Hz

Art. No.	Pack Qty.	€
ALN9.1	1	150,00

Accessories for LCD hot air gun HG 2320 E

Wide jet nozzle,

simply push-on, for extensive air distribution. Width 50 mm.

Art. No.	Pack Qty.	€
1946.1	1	10,70

Reducing nozzle,

simply push-on, for concentrated heat. Ø 14 mm.

Art. No.	Pack Qty.	€
1947.1	1	10,70



N°ICE electronic ice bath

By Techne. Space-saving sample chiller with general-purpose heat treatment bath for various vial types and sizes. Ceramic beads are used instead of ice as a chilling medium. This allows unlimited cooling times and avoids the problem of floating samples in thawing ice as well as contamination by coolants. As a time saving option, the bucket of beads can be pre-incubated in the fridge and simply inserted into the unit as and when required.

- Peltier cooling technology
- Max. capacity approx. 60 1.5 ml vials
- Ceramic beads are autoclavable and suitable for multiple use

Technical specifications:

Temperature range / resolution	0.0 to 40.0 °C
Temperature accuracy	±1 °C
Average cooling time from 20 to 4 °C	approx. 60 min
Average cooling time from 20 to 0 °C	approx. 3-4 h
Dimensions (L x W x H)	190 x 240 x 225 mm
Dimensions of heat treatment bath (L x W x H)	155 x 108 x 70 mm
Weight	4.5 kg
Power supply	100-230 V, 50/60 Hz

Delivery incl. aluminium heat treatment bath and 1.7 kg of ceramic beads (Ø 1.5-2.5 mm).

Art. No.	Pack Qty.	€
AKN5.1	1	1403,00

Accessories:

Replacement heat treatment bath	AKN6.1	1	88,00
Replacement ceramic beads, Ø 1.5-2.5 mm, 1.7 kg	AKN7.1	1	87,00

Electrophoresis Accessories Gel Transfer/Blotting



Electrophoresis Cables

Suitable for up to 1000 volt. Cable length 1 m.

Fig.	Model	Ø socket (mm)	Ø plug (mm)	Art. No.	Pack Qty. (Pair)	€
①	Classic Line	4	4	N843.1	1	83,35
②	Rotiphorese® Line	4	4	6848.1	1	83,35

Screw thread fitting the lids of Rotiphorese® units.

Programme extension!

Whatman Chromatography Papers

Whatman chromatography papers for blotting, chromatography and filtration. Made from specially selected cellulose.

Thickness 0.18 mm (Whatman 2CHR), flow rate 115 mm/30 min.

Dimensions	Art. No.	Pack Qty.	€
460 x 570 mm	CL36.1	100	220,00

Thickness 0.18 mm (Whatman 1CHR), flow rate 130 mm/30 min.

Also available in convenient rolls!

Dimensions	Art. No.	Pack Qty.	€
100 x 300 mm	CL37.1	100	41,30
200 x 200 mm	CL38.1	100	47,50
250 x 250 mm	CL39.1	100	74,50
460 x 570 mm	CL40.1	100	160,00
580 x 680 mm	CL41.1	100	251,00
20 mm x 100 m (roll)	7606.1	1	25,60
30 mm x 100 m (roll)	CL42.1	1	35,70
40 mm x 100 m (roll)	CL43.1	1	40,50
50 mm x 100 m (roll)	7607.1	1	47,50
100 mm x 100 m (roll)	CL44.1	1	90,70
150 mm x 100 m (roll)	7608.1	1	115,00

Thickness 0.34 mm (Whatman 3CHR), flow rate 130 mm/30 min.
For general applications with medium/heavy solute loadings.

Dimensions	Art. No.	Pack Qty.	€
460 x 570 mm	7604.1	100	320,00

Thickness 0.92 mm (Whatman 17CHR), flow rate 190 mm/30 min.
For the heaviest solute loadings.

Dimensions	Art. No.	Pack Qty.	€
70 x 90 mm	7600.1	100	62,00
25 x 220 mm	7601.1	100	64,00
460 x 570 mm	7602.1	25	239,00
460 x 570 mm	7603.1	100	890,00



Semi Dry Blotters PROfessional

For transfer of proteins and nucleic acids.

- Fast transfer with uniform heat dispersion
- Superior blotting quality due to screw down lid and long life electrodes
- Minimum heat development and buffer use

Semi Dry Blotters PROfessional offer rapid transfer times for blotting of proteins, as well as nucleic acids, being compatible with gel thicknesses from 0.25 up to 10 mm.

Semi Dry Blotters PROfessional utilise a screw down lid, which secures the blot sandwich (optionally) and allows complete control of pressure ensuring even transfer. Uniform heat dispersion across the transfer surface ensures stable blotting parameters and no heat induced sample loss or transfer distortions. The electrodes (platinum coated anode, base, and stainless steel cathode, lid) will exhibit no corrosion when used with accurately prepared transfer buffers, and provide many years of trouble free use. Unit dimensions (w x h x d): 16.5 x 15 x 5.5 cm (MINI) and 26 x 26 x 7 cm (MAXI)

Semi dry blotter PROfessional MINI, transfer surface 10 x 10 cm

Art. No.	Pack Qty.	€
KK58.1	1	382,65

Semi dry blotter PROfessional MAXI, transfer surface 20 x 20 cm

Art. No.	Pack Qty.	€
KK59.1	1	1405,05

New Sizes


Yeast Extract, granulated
granulated, for bacteriology

Store at +20 °C

Micro-granulated, water soluble extract of selected autolysed yeast cells. Easy to handle and dust-reduced. Yeast extract is used as a rich source for vitamins, carbon and amino acids in many microbiological culture media formulations. Rich in B-vitamins and growth factors.

Type analysis:

Total nitrogen.....	≥10 %
Amino nitrogen.....	≥4,5 %
Dry substance.....	≥94 %
Ash.....	≤16 %
pH (2 % solution).....	6,8-7,2

2904.1	250 g	plastic	42,90 €
2904.2	500 g	plastic	77,95 €
Original pack 6 x 500 g			74,05/500 g
2904.3	1 kg	plastic	154,30 €
Original pack 6 x 1 kg			146,59/1 kg
2904.4	2,5 kg	plastic	268,00 €
2904.5	5 kg	plastic	519,25 €


Tryptone/Peptone ex casein, granulated
granulated, pancreatic digest, for microbiology

Similar to NZamine

Granulated, dust-minimized casein peptone made by pancreatic digestion. Rich in short-chained peptides and amino acids, including tryptophane. Essential ingredient of many nutrient media like, for instance, LB, 2YT and others.

Type analysis:

Total nitrogen.....	≥10 %
Amino nitrogen.....	≥3,9 %
Loss on drying.....	≤6 %
Ash.....	≤15 %
pH (2 % solution).....	6,5-7,5
Granulation.....	complies

6681.1	250 g	plastic	56,45 €
6681.2	500 g	plastic	96,75 €
Original pack 6 x 500 g			91,91/500 g
6681.3	1 kg	plastic	170,95 €
Original pack 6 x 1 kg			162,40/1 kg
6681.4	2,5 kg	plastic	338,65 €
6681.5	5 kg	plastic	639,65 €

**Roti®-Plast****paraffin, for histology**

Roti®-Plast is a special paraffin of highest quality. It penetrates the tissue quickly, completely and gives it its plasticity.

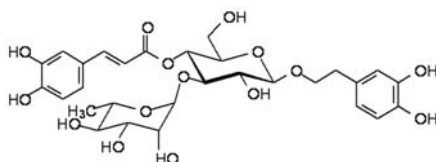
Type analysis:

Appearance.....	white pastilles
Solidification point.....	~58 °C

6642.1	1 kg	plastic	13,85 €
Original pack 6 x 1 kg			13,16/1 kg
6642.5	2,5 kg	plastic	26,35 €
6642.2	10 kg	plastic	88,15 €
6642.6	20 kg	plastic	146,20 €

ROTICHROM® Working Standards

Acteoside



Acteoside

ROTICHROM® Working Standard

Verbascoside

$C_{29}H_{36}O_{15}$

M 624,60 g/mol

Store at +4 °C

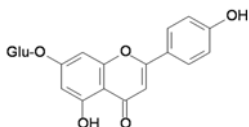
[61276-17-3]

Type analysis:

Assay (HPLC)..... ≥80,0 %
Identity..... complies
Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC33.1	50 mg	glass	230,05 €
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Apigenin-7-glucoside



Apigenin-7-glucoside

ROTICHROM® Working Standard

Apigenitrin

$C_{21}H_{20}O_{10}$

M 432,57 g/mol

mp 224-237 °C

Store at +4 °C

[578-74-5]

EC No 209-430-5

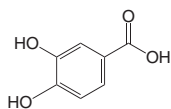
WGK 1

Type analysis:

Assay (HPLC)..... ≥90,0 %
Identity..... complies
Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC19.1	25 mg	glass	267,70 €
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3,4-Dihydroxybenzoic acid



3,4-Dihydroxybenzoic acid

ROTICHROM® Working Standard

Protocatechuic acid

$C_7H_6O_4$

M 154,12 g/mol

mp ~200 °C

Store at +4 °C

[99-50-3]

EC No 202-760-0

WGK 1

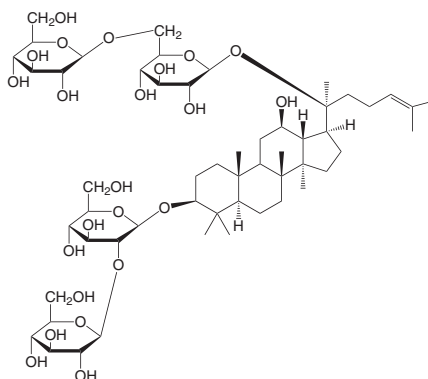
⚠ Warning H315-H319-H335

Type analysis:

Assay (HPLC)..... ≥90,0 %
Identity..... complies
Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC52.1	100 mg	glass	95,70 €
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Ginsenoside Rb₁



Ginsenoside Rb₁

ROTICHROM® Working Standard

$C_{54}H_{92}O_{23}$

M 1109,31 g/mol

Store at +4 °C

[41753-43-9]

EC No 255-532-8

WGK 1

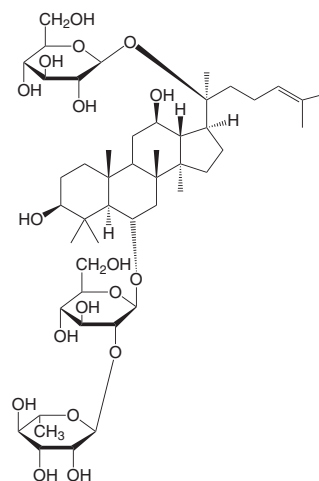
⚠ Warning H302

Type analysis:

Assay (HPLC)..... ≥85,0 %
Identity..... complies
Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC44.1	25 mg	glass	212,85 €
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Ginsenoside Re



Ginsenoside Re

ROTICHROM® Working Standard

Store at +4 °C

[52286-59-6]

EC No 257-814-6

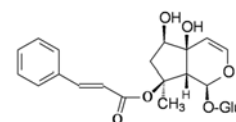
WGK 3

Type analysis:

Assay (HPLC)..... ≥80,0 %
Identity..... complies
Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC45.1	25 mg	glass	217,15 €
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Harpagoside



Harpagoside

ROTICHROM® Working Standard

8'-Cinnamoylharpagide

$C_{24}H_{30}O_{11}$

M 494,48 g/mol

mp 120-129 °C

Store at +4 °C

[19210-12-9]

EC No 242-881-6

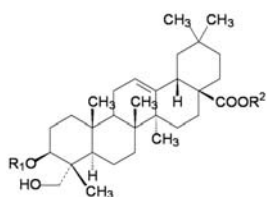
WGK 1

Type analysis:

Assay (HPLC)..... ≥80,0 %
Identity..... complies
Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC21.1	50 mg	glass	384,85 €
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Hederacoside C



R1 = Rha-Ara R2 = -Glu-Glu-Rha

Hederacoside C

ROTICHROM® Working Standard

 $C_{59}H_{96}O_{26}$

M 1221,39 g/mol

mp 218-223 °C

Store at +4 °C

[27013-76-9]

EC No 238-072-2 · UN No. 2811

ADR 6.1 III · WGK 2

⚠ Warning H302

Type analysis:

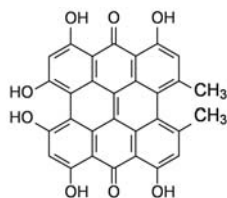
Assay (HPLC)..... ≥85,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC46.1	25 mg	glass	289,20 €
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Hypericin



Hypericin

ROTICHROM® Working Standard

 $C_{30}H_{16}O_8$

M 504,43 g/mol

Store at -20 °C

Transport temp.: room temp.

[548-04-9]

EC No 208-941-0 · UN No. 2811

ADR 6.1 (I) · WGK 2

⚠ Danger H300-H317

Type analysis:

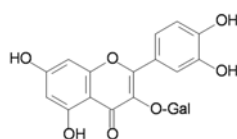
Assay (HPLC)..... ≥85,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC22.1	10 mg	glass	266,60 €
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Hyperoside



Hyperoside

ROTICHROM® Working Standard

Quercetin-3-galactoside, Hyperin

 $C_{21}H_{20}O_{12}$

M 464,39 g/mol

mp 236-238 °C

Store at +4 °C

[482-36-0]

EC No 207-580-6

WGK 2

⚠ Warning H302

Type analysis:

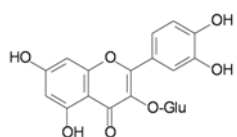
Assay (HPLC)..... ≥85,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC23.1	50 mg	glass	321,45 €
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Isoquercitrin



Isoquercitrin

ROTICHROM® Working Standard

Trifoliin, Quercetin-3-glucoside

 $C_{21}H_{20}O_{12}$

M 464,38 g/mol

mp 220-235 °C

Store at +4 °C

[482-35-9]

WGK 1

Type analysis:

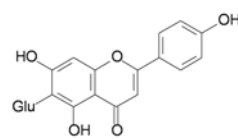
Assay (HPLC)..... ≥80,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC24.1	25 mg	glass	299,95 €
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Isovitexin



Isovitexin

ROTICHROM® Working Standard

Saponaretin

 $C_{21}H_{20}O_{10}$

mp 220-221 °C

Store at +4 °C

[38953-85-4]

WGK 1

Type analysis:

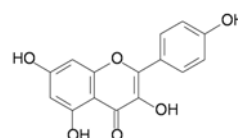
Assay (HPLC)..... ≥80,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC25.1	25 mg	glass	321,45 €
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Kaempferol



Kaempferol

ROTICHROM® Working Standard

3,4',5,7-Tetrahydroxyflavone, Robigenin, Trifolitidin

 $C_{15}H_{10}O_6$

M 286,24 g/mol

mp 250-280 °C (dec.)

Store at +4 °C

[520-18-3]

EC No 208-287-6

WGK 1

⚠ Warning H341-H315-H319-H335

Type analysis:

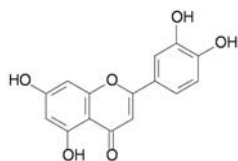
Assay (HPLC)..... ≥80,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC26.1	25 mg	glass	150,50 €
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Luteolin



Luteolin

ROTICHRON® Working Standard

3',4',5,7-Tetrahydroxyflavone

 $C_{15}H_{10}O_6$

M 286,23 g/mol

mp 326-330 °C

Store at +4 °C

[491-70-3]

EC No 207-741-0

WGK 1

⚠ Warning H315-H319-H335

Type analysis:

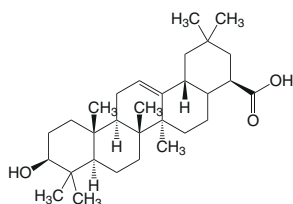
Assay (HPLC)..... ≥80,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC49.1 50 mg glass 137,60 €

Oleanolic acid



Oleanolic acid

ROTICHRON® Working Standard

Oleanol, Caryophyllin

 $C_{30}H_{48}O_3$

M 456,71 g/mol

mp >300 °C

Store at +4 °C

[508-02-1]

EC No 208-081-6

Type analysis:

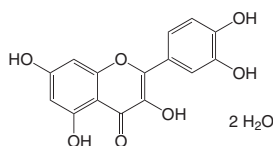
Assay (HPLC)..... ≥85,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC50.1 50 mg glass 246,20 €

Quercetin dihydrate (C.I. 75670)



Quercetin dihydrate (C.I. 75670)

ROTICHRON® Working Standard

Sophoretin, Meletin

 $C_{15}H_{10}O_7 \cdot 2 H_2O$

M 338,27 g/mol

bp 314 °C (dec.)

mp 305-310 °C

Store at +4 °C

[6151-25-3]

EC No 204-187-1 · UN No. 2811

ADR 6.1 (III) · WGK 3

⚠ Danger H301-H341

Type analysis:

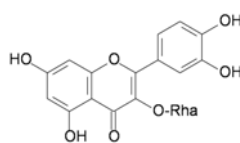
Assay (HPLC)..... ≥80,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC27.1 100 mg glass 208,55 €

Quercitrin



Quercitrin

ROTICHRON® Working Standard

Quercetin-3-rhamnoside

 $C_{21}H_{26}O_{11}$

M 448,39 g/mol

Store at +4 °C

[522-12-3]

EC No 208-322-5

WGK 1

Type analysis:

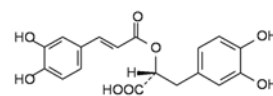
Assay (HPLC)..... ≥70,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC29.1 100 mg glass 318,20 €

Rosmarinic acid



Rosmarinic acid

ROTICHRON® Working Standard

 $C_{18}H_{16}O_8$

M 360,34 g/mol

D 0,91

mp ~170 °C

Store at -20 °C

Transport temp.: room temp.

[2283-92-5]

Type analysis:

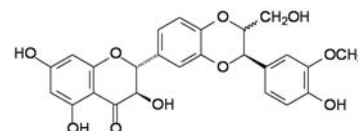
Assay (HPLC)..... ≥85,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC30.1 100 mg glass 273,05 €

Silybin



Silybin

ROTICHRON® Working Standard

 $C_{25}H_{22}O_{10}$

M 482,43 g/mol

Store at +4 °C

[22888-70-6]

EC No 245-302-5

Type analysis:

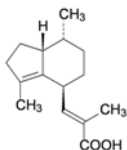
Assay (HPLC)..... ≥85,0 %

Identity..... complies

Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC31.1 100 mg glass 161,25 €

Valerenic acid



Valerenic acid

ROTICHROM® Working Standard

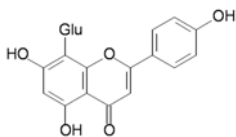
$C_{15}H_{22}O_2$
M 234,34 g/mol
mp 140-142 °C
Store at +4 °C
[3569-10-6]
WGK 1

Type analysis:

Assay (HPLC)..... ≥95,0 %
Identity..... complies
Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC32.1	50 mg	glass	256,95 €
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Vitexin



Vitexin

ROTICHROM® Working Standard

Orientoside, Apigenin-8-glucoside
 $C_{21}H_{20}O_{10}$
M 432,36 g/mol
Store at +4 °C
[3681-93-4]
EC No 222-963-8
WGK 3

Type analysis:

Assay (HPLC)..... ≥85,0 %
Identity..... complies
Traceable to a primary reference standard. With proof of identity and batch specific certificate of analysis.

NC56.1	25 mg	glass	514,95 €
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ROTI®REMETIC Metal compounds of rare earths

Cerium(III) acetate hydrate

Cerium(III) acetate hydrate

ROTI®REMETIC 99,995 %

$Ce(CH_3CO_2)_3 \cdot x H_2O$
M 317,25 + x H₂O g/mol
[537-00-8]
EC No 208-654-0
WGK 3

Type analysis:

Assay (TREO*)..... 99,995 %
*Total rare earth oxide
Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7084.1	10 g	plastic	53,65 €
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7084.2	50 g	plastic	170,95 €
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Cerium(III) chloride

Cerium(III) chloride

ROTI®REMETIC 99,99 %

Cerium trichloride
 $CeCl_3$
M 246,47 g/mol
mp 817 °C
Solubility: soluble (H₂O, 20 °C)
[7790-86-5]
EC No 232-227-8
WGK 3

Type analysis:

Assay (TREO*)..... 99,99 %
*Total rare earth oxide
Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7078.1	5 g	plastic	32,15 €
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7078.2	25 g	plastic	74,20 €
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Cerium(III) fluoride

Cerium(III) fluoride

ROTI®REMETIC 99,9 %

Cerium trifluoride
 CeF_3
M 197,11 g/mol
mp 1430 °C
Solubility: insoluble (H₂O, 20 °C)
[7758-88-5]
EC No 231-841-3 · UN No. 3288
ADR 6.1 III · WGK 3

Danger H301-H315-H319-EUH032

Type analysis:

Assay (TREO*)..... 99,9 %
*Total rare earth oxide
Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7068.1	1 g	plastic	17,10 €
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7068.2	5 g	plastic	42,90 €
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Cerium(III) nitrate hexahydrate

Cerium(III) nitrate hexahydrate

ROTI®REMETIC 99,99 %

$Ce(NO_3)_3 \cdot 6 H_2O$
M 434,23 g/mol
mp 150 °C (dec.)
Solubility: 1760 g/l (H₂O, 25 °C)
[10294-41-4]
EC No 233-297-2 · UN No. 1477
ADR 5.1 II · WGK 1

Danger H272-H318

Type analysis:

Assay (TREO*)..... 99,99 %
*Total rare earth oxide
Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7049.1	5 g	plastic	42,90 €
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7049.2	25 g	plastic	64,40 €
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Cerium(III) oxalate hydrate

Cerium(III) oxalate hydrate

ROTI®REMETIC 99,95 %

$Ce_2(C_2O_4)_3 \cdot x H_2O$
M 544,29 + x H₂O g/mol
[15750-47-7]
EC No 205-362-5
WGK 3

Warning H302-H312

Type analysis:

Assay (TREO*)..... 99,95 %
*Total rare earth oxide
Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7067.1	10 g	plastic	56,65 €
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7067.2	50 g	plastic	191,25 €
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Cerium(IV) oxide

Cerium(IV) oxide

ROTI®REMETIC 99,99 %

 CeO_2

M 172,11 g/mol

mp ~2000 °C

Solubility: insoluble (H_2O , 20 °C)

[1306-38-3]

EC No 215-150-4

WGK 1

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace

impurities in ppm range

7042.1	10 g	plastic	32,15 €
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7042.2	50 g	plastic	107,40 €
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Dysprosium(III) oxide

Dysprosium(III) oxide

ROTI®REMETIC 99,9 %

Didysprosium trioxide, Dysprosia

 Dy_2O_3

M 373,00 g/mol

bp 3900 °C

mp 2310 °C

Solubility: insoluble (H_2O , 20 °C)

[1308-87-8]

EC No 215-164-0

WGK 3

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace

impurities in ppm range

7145.1	5 g	plastic	21,40 €
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7145.2	25 g	plastic	64,40 €
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Erbium(III) acetate hydrate

Erbium(III) acetate hydrate

ROTI®REMETIC 99,9 %

 $\text{Er}(\text{CH}_3\text{CO}_2)_3 \cdot x \text{H}_2\text{O}$ M 344,38 + x H_2O g/mol

[15280-57-6]

EC No 247-067-4

WGK 3

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace

impurities in ppm range

7169.1	10 g	plastic	69,75 €
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Erbium(III) carbonate hydrate

Erbium(III) carbonate hydrate

ROTI®REMETIC 99,9 %

 $\text{Er}_2(\text{CO}_3)_3 \cdot x \text{H}_2\text{O}$ M 514,54 + x H_2O g/mol

[22992-83-2]

EC No 228-003-4

WGK 3

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace

impurities in ppm range

7167.1	5 g	plastic	42,90 €
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Erbium(III) fluoride

Erbium(III) fluoride

ROTI®REMETIC 99,99 %

Erbiumtrifluoride

 ErF_3

M 224,25 g/mol

mp 1147 °C

Solubility: insoluble (H_2O , 20 °C)

[13760-83-3]

EC No 237-356-3 · UN No. 3288

ADR 6.1 III · WGK 3

⚠ **Danger** H301-H315-H319-EUH032**Type analysis:**

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace

impurities in ppm range

7234.1	5 g	plastic	48,25 €
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Erbium(III) nitrate pentahydrate

Erbium(III) nitrate pentahydrate

ROTI®REMETIC 99,9 %

 $\text{Er}(\text{NO}_3)_3 \cdot 5 \text{H}_2\text{O}$

M 443,35 g/mol

mp 130 °C (dec.)

Solubility: 2408 g/l (H_2O , 25 °C)

[10031-51-3]

EC No 233-436-7 · UN No. 1477

ADR 5.1 III · WGK 3

⚠ **Danger** H272**Type analysis:**

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace

impurities in ppm range

7165.1	10 g	plastic	32,15 €
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Erbium(III) oxide

Erbium(III) oxide

ROTI®REMETIC 99,9 %

Erbium trioxide, Erbia

 Er_2O_3

M 382,52 g/mol

bp 3920 °C

mp 2344 °C

Solubility: insoluble (H_2O , 20 °C)

[12061-16-4]

EC No 235-045-7

WGK 3

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace

impurities in ppm range

7160.1	5 g	plastic	21,40 €
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7160.2	25 g	plastic	75,15 €
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Europium(III) acetate hydrate

Europium(III) acetate hydrate

ROTI®REMETIC 99,999 %

 $\text{Eu}(\text{CH}_3\text{CO}_2)_3 \cdot x \text{H}_2\text{O}$ M 329,10 + x H_2O g/mol

[62667-64-5]

EC No 214-670-9

WGK 3

Type analysis:

Assay (TREO*) 99,999 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace

impurities in ppm range

7207.1	1 g	plastic	42,90 €
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7207.2	5 g	plastic	160,20 €
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Europium(III) carbonate hydrate

Europium(III) carbonate hydrate

ROTI®REMETIC 99,99 %

 $\text{Eu}_2(\text{CO}_3)_3 \cdot x \text{H}_2\text{O}$ M 483,95 + x H_2O g/mol

[86546-99-8]

EC No 227-582-0

WGK 3

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace

impurities in ppm range

7205.1	1 g	plastic	37,55 €
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Europium(III) fluoride

Europium(III) fluoride

ROTI®REMATIC 99,99 %

Europium trifluoride

EuF₃

M 208,96 g/mol

bp 2280 °C

mp 1390 °C

Solubility: insoluble (H₂O, 20 °C)

[13765-25-8]

EC No 237-368-9

WGK 3

 **Warning**

H302+H312+H332-H315-H319-H335

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace
impurities in ppm range

7134.1	1 g	plastic	64,40 €
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NEW

Europium(III) oxide

Europium trioxide, Europia

Eu₂O₃

M 351,92 g/mol

D 7,42 · bp 3790 °C

mp 2291 °C

Solubility: insoluble (H₂O, 20 °C)

[1308-96-9]

EC No 215-165-6

WGK 3

Europium(III) oxide

ROTI®REMATIC 99,999 %

Type analysis:

Assay (TREO*) 99,999 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace
impurities in ppm range

7127.1	1 g	plastic	42,90 €
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7127.2	5 g	plastic	138,70 €
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NEW

Gadolinium(III) chloride hexahydrate

Gadolinium(III) chloride hexahydrate

ROTI®REMATIC 99,99 %

Gadoliniumtrichloride

GdCl₃ · 6 H₂O

M 371,70 g/mol

[13450-84-5]

EC No 233-386-6

WGK 3

 **Warning** H315-H319**Type analysis:**

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace
impurities in ppm range

7209.1	1 g	plastic	16,00 €
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7209.2	10 g	plastic	85,90 €
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NEW

Europium(III) nitrate hexahydrate

Europium(III) nitrate hexahydrate

ROTI®REMATIC 99,99 %

Eu(NO₃)₃ · 6 H₂O

M 446,07 g/mol

mp 85 °C (dec.)

Solubility: 1930 g/l (H₂O, 25 °C)

[10031-53-5]

EC No 233-380-5 · UN No. 1477

ADR 5.1 III · WGK 3

 **Danger** H272**Type analysis:**

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace
impurities in ppm range

7128.1	1 g	plastic	42,90 €
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7128.2	5 g	plastic	149,45 €
--------	-----	---------	----------

NEW

Europium(III) oxide

ROTI®REMATIC 99,99 %

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace
impurities in ppm range

7187.1	5 g	plastic	107,40 €
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7187.2	10 g	plastic	192,45 €
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7187.3	50 g	plastic	483,75 €
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NEW

Gadolinium(III) fluoride

Gadolinium(III) fluoride

ROTI®REMATIC 99,99 %

Gadolinium trifluoride

GdF₃

M 214,25 g/mol

mp 1231 °C

Solubility: insoluble (H₂O, 20 °C)

[13765-26-9]

EC No 237-369-4

WGK 3

 **Warning**

H302+H312+H332-H315-H319-H335

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace
impurities in ppm range

7139.1	5 g	plastic	35,35 €
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NEW

Gadolinium(III) carbonate hydrate

Gadolinium(III) carbonate hydrate

ROTI®REMATIC 99,99 %

Gd₂(CO₃)₃ · x H₂OM 494,53 + x H₂O g/mol

[38245-36-2]

EC No 227-583-6

WGK 3

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace
impurities in ppm range

7208.1	10 g	plastic	53,65 €
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7208.2	50 g	plastic	203,20 €
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NEW

Gadolinium(III) oxide

Gadolinium trioxide, Gadolinia
 Gd_2O_3
 M 362,49 g/mol
 bp 3900 °C
 mp 2339 °C
 Solubility: insoluble (H_2O , 20 °C)
 [12064-62-9]
 EC No 235-060-9
 WGK 1

⚠ Warning H319

Gadolinium(III) oxide

ROTI®REMETIC 99,999 %

Type analysis:

Assay (TREO*) 99,999 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7189.1	1 g	plastic	14,95 €
7189.2	5 g	plastic	25,70 €
7189.3	50 g	plastic	156,85 €

Gadolinium(III) oxide

ROTI®REMETIC 99,99 %

Type analysis:

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7136.1	1 g	plastic	12,80 €
7136.2	5 g	plastic	21,40 €
7136.3	25 g	plastic	80,50 €
7136.4	100 g	plastic	235,45 €

Holmium(III) fluoride**Holmium(III) fluoride**

ROTI®REMETIC 99,99 %

Holmium trifluoride
 HoF_3
 M 221,93 g/mol
 bp >2200 °C
 mp 1143 °C
 Solubility: insoluble (H_2O , 20 °C)
 [13760-78-6]
 EC No 237-352-1
 WGK 3

⚠ Warning

H302+H312+H332-H315-H319-H335

Type analysis:

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7155.1	5 g	plastic	75,15 €
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Holmium(III) nitrate pentahydrate**Holmium(III) nitrate pentahydrate**

ROTI®REMETIC 99,9 %

$Ho(NO_3)_3 \cdot 5 H_2O$
 M 441,02 g/mol
 [14483-18-2]
 EC No 233-438-8 · UN No. 1477
 ADR 5.1 II · WGK 3

⚠ ⚠ Danger H272-H315-H319-H335

Type analysis:

Assay (TREO*) 99,9 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7231.1	5 g	plastic	42,90 €
7231.2	10 g	plastic	75,15 €

Holmium(III) oxide**Holmium(III) oxide**

ROTI®REMETIC 99,995 %

Diholmium trioxide, Holmia
 Ho_2O_3
 M 377,86 g/mol
 D 8,4 · bp 3900 °C
 mp 2330 °C
 [12055-62-8]
 EC No 235-015-3
 WGK 3

Type analysis:

Assay (TREO*) 99,995 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7149.1	1 g	plastic	40,75 €
7149.2	5 g	plastic	85,90 €

Lanthanum(III) acetate hydrate**Lanthanum(III) acetate hydrate**

ROTI®REMETIC 99,9 %

$La(CH_3COO)_3 \cdot x H_2O$
 M 316,04 + x H_2O g/mol
 [25721-92-0]
 EC No 213-034-8
 WGK 3

Type analysis:

Assay (TREO*) 99,9 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7031.1	100 g	plastic	56,65 €
7031.2	250 g	plastic	117,20 €

Lanthanum(III) carbonate hydrate

$La_2(CO_3)_3 \cdot x H_2O$
 M 457,84 + x H_2O g/mol
 Solubility: insoluble (H_2O , 20 °C)
 [54451-24-0]
 EC No 209-599-5
 WGK 3

Lanthanum(III) carbonate hydrate

ROTI®REMETIC 99,99 %

Type analysis:

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7182.1	25 g	plastic	53,65 €
7182.2	100 g	plastic	160,20 €

Lanthanum(III) carbonate hydrate

ROTI®REMETIC 99,9 %

Type analysis:

Assay (TREO*) 99,9 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7026.1	50 g	plastic	26,75 €
7026.2	250 g	plastic	96,65 €

Lanthanum(III) chloride hydrate

Lanthanum trichloride
 $LaCl_3 \cdot x H_2O$
 M 245,26 + x H_2O g/mol
 mp 91 °C (dec.)
 Solubility: ~957 g (H_2O , 25 °C)
 [20211-76-1]
 EC No 233-237-5
 WGK 3

Lanthanum(III) chloride hydrate

ROTI®REMETIC 99,999 %

Type analysis:

Assay (TREO*) 99,999 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7184.1	25 g	plastic	64,40 €
7184.2	100 g	plastic	170,95 €

Lanthanum(III) chloride hydrate
ROTI®REMETIC 99,99 %**NEW****Type analysis:**

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7030.1	50 g	plastic	53,65 €
7030.2	250 g	plastic	213,95 €

Lanthanum(III) fluoride**Lanthanum(III) fluoride**

ROTI®REMETIC 99,99 %

Lanthanum trifluoride

LaF₃

M 195,90 g/mol

bp 2327 °C

mp 1493 °C

Solubility: insoluble (H₂O, 20 °C)

[13709-38-1]

EC No 237-252-8

WGK 3

Type analysis:

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7028.1	10 g	plastic	28,90 €
7028.2	50 g	plastic	96,65 €

Lanthanum(III) nitrate hexahydrateLa(NO₃)₃ · 6 H₂O

M 433,01 g/mol

[10277-43-7]

EC No 233-238-0 · UN No. 1477

ADR 5.1 II · WGK 1

 **Danger** H272-H318-H335-H315
Lanthanum(III) nitrate hexahydrate**NEW**

ROTI®REMETIC 99,999 %

Type analysis:

Assay (TREO*) 99,999 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7019.1	25 g	plastic	48,30 €
7019.2	100 g	plastic	127,95 €

Lanthanum(III) nitrate hexahydrate**NEW**

ROTI®REMETIC 99,99 %

Type analysis:

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7180.1	50 g	plastic	53,65 €
7180.2	250 g	plastic	213,95 €

Lanthanum(III) oxalate**Lanthanum(III) oxalate**

ROTI®REMETIC 99,99 %

La₂(C₂O₄)₃

M 541,87 g/mol

[537-03-1]

EC No 208-656-1

WGK 3

 **Warning** H302-H312
Type analysis:

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7191.1	25 g	plastic	48,30 €
7191.2	100 g	plastic	138,70 €

Lanthanum(III) oxide**Lanthanum(III) oxide****NEW**

ROTI®REMETIC 99,999 %

Dilanthanum trioxide

La₂O₃

M 325,81 g/mol

bp 3620 °C

mp 2304 °C

[1312-81-8]

EC No 215-200-5

WGK 1

Type analysis:

Assay (TREO*) 99,999 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7410.1	25 g	plastic	59,00 €
7410.2	100 g	plastic	192,45 €

Lanthanum(III) phosphate hydrate**Lanthanum(III) phosphate hydrate**

ROTI®REMETIC 99,99 %

LaPO₄ · x H₂OM 233,88 + x H₂O g/mol

[14913-14-5]

EC No 237-419-5

WGK 1

Type analysis:

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7203.1	5 g	plastic	42,90 €
7203.2	25 g	plastic	149,45 €

Lutetium(III) chloride**Lutetium(III) chloride**

ROTI®REMETIC 99,9 %

Lutetium trichloride

LuCl₃

M 281,33 g/mol

mp 925 °C

Solubility: soluble (H₂O, 20 °C)

[10099-66-8]

EC No 233-240-1

WGK 3

 **Warning** H315-H319
Type analysis:

Assay (TREO*) 99,9 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7275.1	1 g	plastic	64,40 €
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Lutetium(III) nitrate hydrate**Lutetium(III) nitrate hydrate**

ROTI®REMETIC 99,99 %

Lu(NO₃)₃ · x H₂OM 360,98 + x H₂O g/mol

[100641-16-5]

EC No 233-241-7 · UN No. 1477

ADR 5.1 II · WGK 3

 **Danger** H272-H315-H319
Type analysis:

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7265.1	1 g	plastic	75,15 €
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Lutetium(III) oxide

Lutetium(III) oxide

ROTI®REMETIC 99,99 %

 Lu_2O_3

M 397,93 g/mol

D 9,41 · bp 3980 °C

mp 2427 °C

[12032-20-1]

EC No 234-764-3

WGK 3

⚠ Warning H315-H319-H335

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7177.1	1 g	plastic	63,30 €
7177.2	5 g	plastic	278,40 €

Neodymium(III) acetate hydrate

Neodymium(III) acetate hydrate

ROTI®REMETIC 99,9 %

 $\text{Nd}(\text{CH}_3\text{CO}_2)_3 \cdot x \text{H}_2\text{O}$ M 321,37 + x H₂O g/mol

[6192-13-8]

EC No 228-244-5

WGK 3

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7107.1	50 g	plastic	64,40 €
7107.2	100 g	plastic	117,20 €

Neodymium(III) carbonate hydrate

Neodymium(III) carbonate hydrate

ROTI®REMETIC 99,9 %

 $\text{Nd}_2(\text{CO}_3)_3 \cdot x \text{H}_2\text{O}$ M 468,51 + x H₂O g/mol

[38245-38-4]

EC No 227-579-4

WGK 2

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7103.1	10 g	plastic	32,15 €
7103.2	50 g	plastic	107,40 €

Neodymium(III) chloride hexahydrate

Neodymium(III) chloride hexahydrate

ROTI®REMETIC 99,99 %

Neodymium trichloride

 $\text{NdCl}_3 \cdot 6 \text{H}_2\text{O}$

M 358,69 g/mol

mp 124 °C (dec.)

Solubility: ~1000 g/l (H₂O, 25 °C)

[13477-89-9]

EC No 233-031-5

WGK 3

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7283.1	1 g	plastic	16,00 €
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Neodymium(III) fluoride

Neodymium(III) fluoride

ROTI®REMETIC 99,9 %

Neodymium trifluoride

 NdF_3

M 201,24 g/mol

bp 2300 °C

mp 1377 °C

Solubility: insoluble (H₂O, 20 °C)

[13709-42-7]

EC No 237-253-3

WGK 3

⚠ Warning

H302+H312+H332+H315+H319-H335

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7104.1	5 g	plastic	21,40 €
7104.2	10 g	plastic	32,15 €

Neodymium(III) nitrate hexahydrate

Neodymium(III) nitrate hexahydrate

ROTI®REMETIC 99,9 %

 $\text{Nd}(\text{NO}_3)_3 \cdot 6 \text{H}_2\text{O}$

M 438,35 g/mol

Solubility: 1520 g/l (H₂O, 25 °C)

[16454-60-7]

EC No 233-153-9 · UN No. 1477

ADR 5.1 III · WGK 3

⚠ Danger H272

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7097.1	25 g	plastic	32,15 €
7097.2	100 g	plastic	91,25 €

Neodymium(III) oxide

Neodymium(III) oxide

ROTI®REMETIC 99,999 %

Dineodymium trioxide

 Nd_2O_3

M 336,48 g/mol

bp 3760 °C

mp 2233 °C

Solubility: insoluble (H₂O, 20 °C)

[1313-97-9]

EC No 215-214-1

WGK 3

Type analysis:

Assay (TREO*) 99,999 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7092.1	5 g	plastic	53,65 €
7092.2	25 g	plastic	213,95 €

Praseodymium(III) carbonate octahydrate

Praseodymium(III) carbonate octahydrate

ROTI®REMETIC 99,99 %

 $\text{Pr}_2(\text{CO}_3)_3 \cdot 8 \text{H}_2\text{O}$

M 605,96 g/mol

[14948-62-0]

EC No 227-578-9

WGK 3

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7090.1	5 g	plastic	53,65 €
7090.2	25 g	plastic	119,00 €

Praseodymium(III) chloride

Praseodymium(III) chloride

ROTI®REMETIC 99,9 %

Praseodymium trichloride

PrCl₃

M 247,27 g/mol

mp 786 °C

Solubility: 961 (H₂O, 25 °C)

[10361-79-2]

EC No 233-794-4

WGK 3

 **Warning** H315-H319

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7278.1	1 g	plastic	32,15 €
7278.2	10 g	plastic	138,70 €

Praseodymium(III) fluoride

Praseodymium(III) fluoride

ROTI®REMETIC 99,9 %

Praseodymium trifluoride

PrF₃

M 197,90 g/mol

bp 2300 °C

mp 1395 °C

Solubility: insoluble (H₂O, 20 °C)

[13709-46-1]

EC No 237-254-9 · UN No. 3288

ADR 6.1 II · WGK 3

 **Danger** H301+H311+H331-EUH032

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7204.1	5 g	plastic	59,00 €
7204.2	25 g	plastic	235,45 €

Praseodymium(III) nitrate pentahydrate

Praseodymium(III) nitrate pentahydrate

ROTI®REMETIC 99,9 %

Pr(NO₃)₃ · 5 H₂O

M 417,00 g/mol

Solubility: soluble (H₂O, 20 °C)

[14483-17-1]

EC No 233-436-7 · UN No. 1477

ADR 5.1 III · WGK 3

 **Danger** H272

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7088.1	10 g	plastic	26,75 €
7088.2	50 g	plastic	92,35 €

Praseodymium(III,IV) oxide

Praseodymium(III,IV) oxide

ROTI®REMETIC 99,995 %

Pr₆O₁₁

M 1021,44 g/mol

bp 4200 °C

mp 2500 °C

Solubility: insoluble (H₂O, 20 °C)

[12037-29-5]

EC No 234-857-9

WGK 1

 **Warning** H315-H319-H335

Type analysis:

Assay (TREO*) 99,995 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7087.1	1 g	plastic	19,25 €
7087.2	5 g	plastic	64,40 €

Samarium(III) carbonate hydrate

Samarium(III) carbonate hydrate

ROTI®REMETIC 99,99 %

Sm₂(CO₃)₃ · x H₂OM 480,75 + x H₂O g/mol

[38245-37-3]

EC No 227-581-5

WGK 3

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7120.1	10 g	plastic	67,60 €
7120.2	50 g	plastic	213,95 €

Samarium(III) oxide

Samarium trioxide, Samaria

Sm₂O₃

M 348,72 g/mol

bp 3780 °C

mp 2269 °C

Solubility: insoluble (H₂O, 20 °C)

[12060-58-1]

EC No 235-043-6

WGK 1

Samarium(III) oxide

ROTI®REMETIC 99,99 %

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7108.1	5 g	plastic	26,75 €
7108.2	25 g	plastic	85,90 €

Samarium(III) oxide

ROTI®REMETIC 99,9 %

Type analysis:

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7186.1	10 g	plastic	21,40 €
7186.2	50 g	plastic	78,40 €
7186.3	100 g	plastic	138,70 €

Scandium(III) nitrate hydrate

Sc(NO₃)₃ · x H₂OM 230,97 + x H₂O g/molSolubility: soluble (H₂O, 20 °C)

[13465-60-6]

EC No 236-701-5 · UN No. 1477

ADR 5.1 B II · WGK 3

  **Danger** H272-H315-H319-H335

Scandium(III) nitrate hydrate

ROTI®REMETIC 99,99 %

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7237.1	1 g	plastic	138,70 €
7237.2	5 g	plastic	526,75 €

Scandium(III) nitrate hydrate

ROTI®REMETIC 99,9 %

NEW**Type analysis:**

Assay (TREO*) 99,9 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7241.1	1 g	plastic	95,70 €
7241.2	5 g	plastic	342,95 €

Scandium(III) oxide**Scandium(III) oxide**

ROTI®REMETIC 99,999 %

NEW

Scandium oxide

 Sc_2O_3

M 137,91 g/mol

D 3,86

mp 2485 °C

[12060-08-1]

EC No 235-042-0

WGK 3

Type analysis:

Assay (TREO*) 99,999 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7011.1	1 g	plastic	85,90 €
7011.2	5 g	plastic	299,95 €

Terbium(III) acetate hydrate**Terbium(III) acetate hydrate**

ROTI®REMETIC 99,99 %

NEW $\text{Tb}(\text{CH}_3\text{CO}_2)_3 \cdot x \text{H}_2\text{O}$ M 336,06 + x H_2O g/mol

[100587-92-6]

EC No 247-065-3

WGK 3

Type analysis:

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7221.1	1 g	plastic	32,15 €
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Terbium(III) chloride hexahydrate**Terbium(III) chloride hexahydrate**

ROTI®REMETIC 99,99 %

NEW

Terbium trichloride

 $\text{TbCl}_3 \cdot 6 \text{H}_2\text{O}$

M 373,38 g/mol

Solubility: soluble (H_2O , 20 °C)

[13798-24-8]

EC No 233-132-4

WGK 3

Type analysis:

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7256.1	1 g	plastic	75,15 €
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Terbium(III) fluoride**Terbium(III) fluoride**

ROTI®REMETIC 99,99 %

NEW

Terbium trifluoride

 TbF_3

M 215,92 g/mol

bp 2280 °C

mp 1172 °C

Solubility: insoluble (H_2O , 20 °C)

[13708-63-9]

EC No 237-247-0 · UN No. 3288

ADR 6.1 III · WGK 3

⚠ **Danger** H301-H315-H319-EUH032**Type analysis:**

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7218.1	1 g	plastic	46,15 €
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Terbium(III) nitrate pentahydrate**Terbium(III) nitrate pentahydrate**

ROTI®REMETIC 99,9 %

NEW $\text{Tb}(\text{NO}_3)_3 \cdot 5 \text{H}_2\text{O}$

M 435,02 g/mol

[57584-27-7]

EC No 233-138-7 · UN No. 1477

ADR 5.1 III · WGK 3

⚠ **Danger** H272**Type analysis:**

Assay (TREO*) 99,9 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7141.1	1 g	plastic	17,10 €
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Terbium(III,IV) oxide**Terbium(III,IV) oxide**

ROTI®REMETIC 99,995 %

NEW Tb_4O_7

M 747,69 g/mol

Solubility: insoluble (H_2O , 20 °C)

[12738-76-0]

EC No 234-856-3

WGK 3

Type analysis:

Assay (TREO*) 99,995 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7140.1	1 g	plastic	46,10 €
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Thulium(III) fluoride**Thulium(III) fluoride**

ROTI®REMETIC 99,99 %

NEW

Thulium trifluoride

 TmF_3

M 225,93 g/mol

mp 1158 °C

Solubility: soluble (H_2O , 20 °C)

[13760-79-7]

EC No 237-353-7 · UN No. 3288

ADR 6.1 III · WGK 3

⚠ **Danger** H301-H312+H332-EUH032**Type analysis:**

Assay (TREO*) 99,99 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7223.1	1 g	plastic	96,65 €
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7223.2	5 g	plastic	342,95 €
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Thulium(III) nitrate pentahydrate**Thulium(III) nitrate pentahydrate**

ROTI®REMETIC 99,9 %

NEW $\text{Tm}(\text{NO}_3)_3 \cdot 5 \text{H}_2\text{O}$

M 445,02 g/mol

Solubility: soluble (H_2O , 20 °C)

[36548-87-5]

EC No 239-069-9 · UN No. 1477

ADR 5.1 II · WGK 3

⚠ **Danger** H272-H315-H319-H335**Type analysis:**

Assay (TREO*) 99,9 %
 *Total rare earth oxide
 Chemical analysis (ICP, AAS): specified trace
 impurities in ppm range

7282.1	1 g	plastic	38,60 €
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7282.2	5 g	plastic	127,95 €
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Thulium(III) oxide

Thulium(III) oxide

ROTI®REMATIC 99,995 %

Dithulium trioxide, Thulia

Tm₂O₃

M 385,87 g/mol

bp 3945 °C

mp 2341 °C

[12036-44-1]

EC No 234-851-6

WGK 3

Type analysis:

Assay (TREO*) 99,995 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7172.1	1 g	plastic	123,65 €
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Ytterbium(III) chloride hexahydrate

Ytterbium trichloride

YbCl₃ · 6 H₂O

M 387,49 g/mol

D 2,57

mp 160 °C (dec.)

[10035-01-5]

EC No 237-632-3

WGK 3

Ytterbium(III) chloride hexahydrate

ROTI®REMATIC 99,999 %

Type analysis:

Assay (TREO*) 99,999 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7175.1	10 g	plastic	107,40 €
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Ytterbium(III) chloride hexahydrate

ROTI®REMATIC 99,99 %

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7260.1	10 g	plastic	75,15 €
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Ytterbium(III) nitrate pentahydrate

Ytterbium(III) nitrate pentahydrate

ROTI®REMATIC 99,9 %

Yb(NO₃)₃ · 5 H₂O

M 449,13 g/mol

[35725-34-9]

EC No 237-384-6 · UN No. 1477

ADR 5.1 B II · WGK 3

⚠️ **Danger** H272-H315-H319-H335**Type analysis:**

Assay (TREO*) 99,9 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7257.1	5 g	plastic	32,15 €
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7257.2	25 g	plastic	64,40 €
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Ytterbium(III) oxide

Ytterbium(III) oxide

ROTI®REMATIC 99,99 %

Diytterbium trioxide

Yb₂O₃

M 394,08 g/mol

D 9,2 · bp 4070 °C

mp 2355 °C

[1314-37-0]

EC No 215-234-0

WGK 3

⚠️ **Warning** H315-H319-H335**Type analysis:**

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7353.1	10 g	plastic	68,80 €
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Yttrium(III) carbonate hydrate

Yttrium(III) carbonate hydrate

ROTI®REMATIC 99,99 %

Y₂(CO₃)₃ · x H₂OM 357,84 + x H₂O g/mol

[38245-39-5]

EC No 237-585-7

WGK 3

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7284.1	25 g	plastic	107,40 €
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7284.2	50 g	plastic	192,45 €
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Yttrium(III) fluoride

Yttrium(III) fluoride

ROTI®REMATIC 99,99 %

Yttrium trifluoride

YF₃

M 145,90 g/mol

mp ~1150 °C

Solubility: insoluble (H₂O, 20 °C)

[13709-49-4]

EC No 237-257-5

WGK 3

⚠️ **Warning**

H302+H312+H332-H315-H319-H335

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7013.1	10 g	plastic	64,40 €
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7013.2	50 g	plastic	181,70 €
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Yttrium(III) oxide

Yttrium(III) oxide

ROTI®REMATIC 99,99 %

Diyttrium trioxide

Y₂O₃

M 255,81 g/mol

D 5,01 · bp 4300 °C

mp 2438 °C

[1314-36-9]

EC No 215-233-5

Type analysis:

Assay (TREO*) 99,99 %

*Total rare earth oxide

Chemical analysis (ICP, AAS): specified trace impurities in ppm range

7352.1	25 g	plastic	64,40 €
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7352.2	100 g	plastic	117,20 €
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Additional package size

Sodium azide

Sodium azide

≥99 %, p.a.

NaN₃

M 65,01 g/mol

mp 275 °C (dec.)

Solubility: 420 g/l (H₂O, 17 °C)

[26628-22-8]

EC No 247-852-1 · UN No. 1687

ADR 6.1 II · WGK 2

  **Danger** H300-H400-H410-EUH032

Guarantee analysis:

Appearance: colourless to white fine crystalline powder

Assay (cerim.) ≥99,0 %

Identity complies

In H₂O insoluble matter ≤0,05 %

Chloride (Cl) ≤0,005 %

Total sulphur (as SO₄) ≤0,005 %

Free alkali (as NaOH) ≤0,2 %

Aluminium (Al) ≤0,0005 %

Arsenic (As) ≤0,00001 %

Barium (Ba) ≤0,0005 %

Lead (Pb) ≤0,0005 %

Bismuth (Bi) ≤0,0005 %

Cadmium (Cd) ≤0,0005 %

Calcium (Ca) ≤0,005 %

Chromium (Cr) ≤0,0005 %

Cobalt (Co) ≤0,0005 %

Iron (Fe) ≤0,0005 %

Potassium (K) ≤0,005 %

Copper (Cu) ≤0,0005 %

Lithium (Li) ≤0,0005 %

Magnesium (Mg) ≤0,001 %

Manganese (Mn) ≤0,0005 %

Molybdenum (Mo) ≤0,0005 %

Nickel (Ni) ≤0,0005 %

Strontium (Sr) ≤0,0005 %

Zinc (Zn) ≤0,0005 %

Loss on drying ≤0,2 %

pH-value ~10

K305.1	100 g	plastic	37,10 €
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K305.2	250 g	plastic	65,50 €
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K305.3	500 g	plastic	118,80 €
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Original pack 6 x 500 g			112,86/500 g
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K305.4	1 kg	plastic	183,30 €
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Original pack 6 x 1 kg			174,14/1 kg
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