

**ANALYTICAL
MEASUREMENT
AND TESTING**



TEST STRIPS FOR WATER ANALYSIS

CHEMSOLUTE® test strips are ideal for determining water hardness and for the semi-quantitative detection.



- Fast and reliable detection
- Dip, compare - done
- Certified quality

Parameter	Measuring range	PK	Art. no.
Ascorbic acid	0 - 50 - 100 - 200 - 300 - 500 - 700 - 1000 - 2000 mg/l	100	2920.0001
Nitrate	0 - 10 - 25 - 50 - 100 - 250 - 500 mg/l	100	2935.0001
Nitrite	0 - 0.5 - 1 - 5 - 10 - 25 mg/l	100	2925.0001
Nitrite	0 - 2 - 5 - 10 - 20 - 40 - 80 mg/l	100	2930.0001
Peroxide	0 - 0.5 - 2 - 5 - 10 - 25 mg/l	100	2940.0001
Peroxide	0 - 1 - 3 - 10 - 30 - 100 mg/l	100	2955.0001
Phosphate	0 - 3 - 10 - 50 - 100 - 250 - 300 mg/l	100	2950.0001
Total hardness	3 - 4 - 7 - 14 - 21 °dH	100	2915.0001

CONDUCTIVITY SOLUTIONS

The ready-to use CHEMSOLUTE® conductivity solutions are perfectly suitable for calibrations.



- Values stated at 25 °C, accuracy: ±1 %
- Directly traceable to National Institute of Standards and Technology (NIST)
- ISO 17025 Certificate

Description	Quantity ml	PK	Art. no.
84 µS/cm	500	1	1570.0500
1413 µS/cm	500	1	1575.0500
12880 µS/cm	500	1	1580.0500

pH MEASUREMENT

pH INDICATOR PAPER

CHEMSOLUTE® Universal pH indicator paper represents a cheaper alternative for quick determination of the pH value and comprises high-quality, solution-soaked indicator filter papers.



- pH level determination in 1.0 pH steps
- With colour scale
- Roll (L x W): 5 m x 7 mm

Range pH	pH steps	PK	Art. no.
1 - 11	1.0	1	2811.0001
1 - 14	1.0	1	2814.0001

pH INDICATOR STRIPS

A variety of testing options and a broad choice of products: with the CHEMSOLUTE® pH indicator strips, you have everything you need for rapid and informative pH value analyses. In just a few seconds, you can create the ideal basis for your decisions – on the spot, without any prep work or accessories.

- Excellent accuracy and easy legibility
- Guaranteed not to bleed
- No contamination of the medium
- Stable backing strips with reaction colour fields

Range pH	pH steps	Type	PK	Art. no.
0 - 14	1.0	Universal	100	2714.0001
0 - 6.0	0.5	Acidic	100	2730.0001
5.0 - 10.0	0.5	Neutral	100	2770.0001
7.5 - 14.0	0.5	Alkaline	100	2790.0001
0 - 2.5	*		100	2720.0001
2.0 - 9.0	0.5		100	2740.0001
2.5 - 4.5	**		100	2750.0001
4.0 - 7.0	***		100	2760.0001
6.5 - 10.0	0.5		100	2780.0001

* 0 - 0.5 - 1.0 - 1.3 - 1.6 - 1.9 - 2.2 - 2.5

** 2.5 - 3.0 - 3.3 - 3.6 - 3.9 - 4.2 - 4.5

*** 4.0 - 4.4 - 4.7 - 5.0 - 5.3 - 5.5 - 5.8 - 6.1 - 6.3 - 7.0



pH BUFFER SOLUTIONS

The ready-to-use buffer solutions from CHEMSOLUTE® are renowned for their quality and ease of use.

pH BUFFER SOLUTIONS WITH COLOUR CODING

- Accuracy: ± 0.02 pH units (20 °C) or ± 0.01 pH units (25 °C)
- Traceable to the National Institute of Standards and Technology (NIST)
- Compliant with DIN 19266
- In PP bottles
- The dyed buffer solutions allow easy identification

Description	Colour	Quantity ml	PK	Art. no.
pH 4.00	Red*	1000	1	1103.1000
		1000	1	1124.1000
pH 7.00	Yellow*	1000	1	1135.1000
		1000	1	1127.1000
pH 9.00	Blue	1000	1	1129.1000
pH 10.00	Orange	1000	1	1130.1000
		1000	1	1143.1000
	Blue*			

* pH ± 0.01 (25 °C)



pH BUFFER SOLUTIONS WITHOUT COLOUR CODING

- Accuracy: ± 0.02 pH units (20 °C) or ± 0.01 pH units (25 °C)
- Traceable to the National Institute of Standards and Technology (NIST)
- In PP bottles (500 ml & 1000 ml) or polytainers (5000 ml)



Description	Quantity ml	PK pro VE	Art. no.
pH 1,00	1000	1	1111.1000
pH 1,68*	500	1	1101.0500
pH 2,00	1000	1	1112.1000
pH 3,00	1000	1	1113.1000
pH 4,00*	500	1	1122.0500
pH 4,00	1000 5000	1 1	1114.1000 1114.5000
pH 5,00	1000	1	1115.1000
pH 6,00	1000	1	1116.1000
pH 6,86*	500	1	1169.0500
pH 7,00*	500	1	1139.0500
pH 7,00	1000 5000	1 1	1117.1000 1117.5000
pH 8,00	1000	1	1118.1000
pH 9,00	1000 5000	1 1	1119.1000 1119.5000
pH 10,00*	500	1	1151.0500
pH 10,00	1000 5000	1 1	1120.1000 1120.5000
pH 11,00	1000	1	1121.1000

* pH $\pm 0,01$ (25 °C)

pH BUFFER SOLUTIONS IN A TWIN-NECK BOTTLE

The calibration vessel, integrated into the CHEMSOLUTE® twin-neck dispensing bottles, allows the particularly economical dispensing of solution and prevents contamination.

pH BUFFER SOLUTIONS IN A TWIN-NECK BOTTLE WITH COLOUR CODING

- Accuracy: ± 0.01 pH units (reference temperature 20 °C)
- Traceable to the National Institute of Standards and Technology (NIST)
- Compliant with DIN 19266
- The dyed buffer solutions allow easy identification

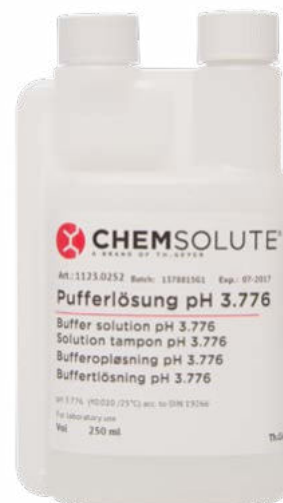


Description	Colour	Capacity ml	PK	Art. no.
pH 4.00	Red	250 1000	1	1134.0252
			1	1134.1012
pH 7.00	Yellow	250 1000	1	1137.0252
			1	1137.1012
pH 10.00	Blue	250 1000	1	1140.0252
			1	1140.1012

pH BUFFER SOLUTIONS IN A TWIN-NECK BOTTLE WITHOUT COLOUR CODING

- Accuracy: ± 0.01 pH units (reference temperature 25 °C)
- Traceable to the National Institute of Standards and Technology (NIST)
- Compliant with DIN 19266

Description	Quantity ml	PK	Art. no.
pH 3.776	250	1	1123.0252
pH 4.005	250	1	1125.0252
	1000	1	1125.1012
pH 6.881	1000	1	1126.1012
pH 7.413	250	1	1128.0252
	1000	1	1128.1012
pH 9.180	250	1	1131.0252
	1000	1	1131.1012
pH 10.012	250	1	1132.0252
	1000	1	1132.1012



ELECTRODE FILLING SOLUTIONS

These high-quality electrolyte solutions are perfectly suited to the secure and reliable maintenance and care of electrodes.

- Ideal for topping up and replacing reference electrolyte solution in pH electrodes
- Suitable for long-term wet storage of the electrodes
- Can be traced to Standard Reference Material (SRM) from the National Institute of Standards and Technology (NIST)

Description	Quantity ml	PK	Art. no.
Lithium chloride solution 1 mol/l in ethanol	100	1	2230.0100
Potassium chloride solution 3 mol/l, free from silver ions	1000	1	1619.1000
	5000	1	1619.5000
Potassium chloride solution 3 mol/l, saturated with AgCl	1000	1	1633.1000
Potassium chloride solution 5 % dissolved oxygen electrolyte	100	1	2265.0100



WEIGHING BOATS

The LABSOLUTE® weighing boats made of PS feature smooth surfaces to transfer each kind of sample easily with minimal sample loss. The material is antistatic, biologically inert and resistant to both weak and diluted acids, bases and alcohols and to temperatures from -10 °C up to 70 °C. All dishes are food-grade compliant and can be used with microwave moisture analyzers. Available in white and black.

WEIGHING BOATS, SQUARE, PS

The antistatic dishes feature a flat bottom for a secure stand. The round corners simplify the transfer of each kind of sample.

Colour	Volume ca. ml	Dimensions W x H x D mm	PK	Art. no.
White	7	46 x 8 x 46	500	7.696 256
White	100	85 x 24 x 85	500	7.696 257
White	250	140 x 22 x 140	500	7.696 258
Black	7	46 x 8 x 46	500	7.696 259
Black	100	85 x 24 x 85	500	7.696 260
Black	250	140 x 22 x 140	500	7.696 261



WEIGHING BOATS, DIAMOND-SHAPED, PS

The flexible design of these antistatic weighing dishes is ideally suited to transfer even small amounts of samples precisely.

Colour	Volume ca. ml	Dimensions W x H x D mm	PK	Art. no.
White	5	55 x 6 x 35	500	7.696 250
White	30	78 x 14 x 56	500	7.696 251
White	100	119 x 19 x 90	500	7.696 252
Black	5	55 x 6 x 35	500	7.696 253
Black	30	78 x 14 x 56	500	7.696 254
Black	100	119 x 19 x 90	500	7.696 255



WEIGHING PAPER

The smooth surface of the weighing papers guarantees a good sample recovery.

- Dimensions (W x D): 95 x 110 mm
- Weight: 45 g/m²

Description	PK	Art. no.
Weighing paper	250	7.697 925



TIME MEASUREMENT

The LABSOLUTE® range offers you a practical selection of precise chronometers which provide functions geared towards the requirements of the laboratory sector.

JUMBO TIMER

This LABSOLUTE® jumbo timer has the advantage of an extra large display and the practical combination of an audible and visual alarm. During the countdown, the start and stop button lights up green; once the time has expired, the audible signal and the red light both indicate the end of the countdown.



- Dimensions (W x H x D): 90 x 60 x 20 mm
- 2 x AAA batteries included
- Four-digit display up to 99 minutes, 59 seconds
- Countdown and countup function
- Triple memory function
- Alarm volume has three level settings
- Simple fastening with magnet, clip and stand

Description	PK	Art. no.
Jumbo timer	1	7.695 453

DUAL TIMER

Two electronic timers in one device: the LABSOLUTE® dual timer is ideal for comparing different countdown or countup times. The elapsed time is indicated both audibly and visibly by the T1 and T2 buttons lighting up green and then red during the countdown. Intuitive operation: the large convenient display as well as clearly legible figures make this timer exceptionally easy to use.



- Dimensions (W x H x D): 90 x 75 x 20 mm
- 2 x AAA batteries included
- Large display with two-part display, each six-digit, up to 99 hours, 59 minutes, 59 seconds
- Audible alarm volume has three level settings
- Visual alarm
- Memory function
- Simple fastening with magnet, clip and stand

Description	PK	Art. no.
Dual timer	1	7.695 454

BASIC TIMER

Handy, lightweight and functional timer in a sleek design.

- Dimensions (W x H x D): 50 x 69 x 8 mm
- LR-44 battery included
- Countdown function
- Four-digit display up to 99 minutes, 59 seconds
- With magnet on the back side
- With power switch on the back side for longer battery life

Description	PK	Art. no.
Basic timer	1	7.695 455



MECHANICAL TIMER

Practical mechanical LABSOLUTE® timer in robust white casing with white rotary knob and black scale.

- Dimensions (W x H x D): 68 x 68 x 40 mm
- No need for batteries
- Variable attachment options for mounting or hanging with a sticker that allows the timer to be secured to smooth surfaces
- Available as a 60- or 120-minute timer

Description	PK	Art. no.
Mechanical timer 0 - 60 min	1	7.695 452
Mechanical timer 0 - 120 min	1	7.695 451





ELECTRONIC STOPWATCH

The LABSOLUTE® stopwatch counts up to 30 minutes at one hundredth of a second accuracy and then up to 24 hours to the second. Each watch is calibrated in an accredited laboratory and supplied with a calibration certificate.

- Alarm function
- Time and calendar display
- Memory function (stores a lap time)
- Including CR2032 battery

Description	PK	Art. no.
Electronic stopwatch	1	7.695 459



ELECTRONIC STOPWATCH WITH DUAL DISPLAY

The LABSOLUTE® dual display stopwatch displays cumulative split time and interval split times simultaneously. The housing made of ABS plastic is waterproof and extremely robust. Each watch is calibrated in an accredited laboratory and supplied with a calibration certificate.

- Time and calendar display
- Memory function (stores 30 lap time)
- Including CR2032 battery

Description	PK	Art. no.
Electronic stopwatch with dual display	1	7.695 460

A hand wearing a blue nitrile glove holds a white paper bag. Inside the bag, several slices of kiwi fruit are visible. A red circular graphic with white text is overlaid on the right side of the bag. The background is a blurred laboratory or kitchen setting.

**SAMPLE
PREPARATION**

PLEASE
ORDER PESTLES
SEPARATELY



MORTARS, PORCELAIN

The LABSOLUTE® mortars are made of high-quality porcelain complying with DIN 12906. The inner surface and base are unglazed. The rough pounding surface leads to a best possible grinding result.

Capacity ml	Ø mm	Height mm	PK	Art. no.
70	63	41	1	7.694 941
160	90	56	1	7.694 942
400	125	71	1	7.694 943
650	150	90	1	7.694 944
1000	180	104	1	7.694 945
2250	224	127	1	7.694 946

PESTLES, PORCELAIN

The LABSOLUTE® pestles are made of high-quality porcelain complying with DIN 12906. They have an unglazed head and a glazed handle as well as a rough pounding surface.

Head Ø mm	Length mm	PK	Art. no.
24	115	1	7.694 947
30	135	1	7.694 948
36	150	1	7.694 949
42	175	1	7.694 950
55	210	1	7.694 951
74	250	1	7.694 952
85	280	1	7.694 953

BLENDER BAGS, STERILE, PE

The bags from LABSOLUTE® are designed for safe and rapid homogenization of solid samples prior to microbiological and chemical analysis. The bags are made of high-quality, pure PE and suitable for contact with food. LABSOLUTE® offers three versions: without filter, with side fleece filter with a pore size of <250 µm or with a full-page fleece filter with a pore size of <280 µm.

- Bags fit into all standard 400 ml laboratory homogenizers
- Temperature resistant from -40 °C to 80 °C
- Gamma sterile

Description	Dimensions (W x H) mm	PK	Art. no.
Without filter	180 x 300	500	7.696 480
Lateral filter	190 x 300	500	7.696 481
Full page filter	190 x 300	500	7.696 482

