

PRODUCT INFORMATION

LABORATORY ANALYSIS
ELECTROCHEMISTRY
BUFFERS & STANDARDS



On site: SINGLET buffer solutions in practical single dose pouches. Also available for calibrating process probes



For routine analyses: Ready-to-use, colour-coded buffer solutions and buffer powder pillows

Buffer and standard solutions for laboratory and field analysis

- **Wide selection of concentrations and package sizes**
- **DKD accredited production (Deutscher Kalibrierdienst) is a German accreditation body**
- **Traceable to NIST standard reference materials**
- **For HQD, METERLAB and SENSION instruments**

Reliable results

Whether in the laboratory or in the field, correct measurement results are essential. The basis for accurate measurements is good care and calibration of the electrodes. As well as proper handling, the standard solutions that are used are key.

HACH LANGE offers a large number of high quality buffer and standard solutions for pH and conductivity.

The laboratory in Berlin where these solutions are prepared is DKD – accredited, giving them the seal of approval.

Certified standards

The certified IUPAC standards in airtight boxes have a shelf life of 4 years if unopened and can be used to achieve maximum accuracy. A DKD approved calibration certificate is available for each batch.

The colour-coded buffer solutions in 500 ml bottles are attractively priced all-rounders for almost every situation. Anyone carrying out occasional measurements in the lab or in the field will appreciate the practical SINGLET 1 unit dose pouches.



Standard pH buffer and conductivity solutions

PH BUFFER SOLUTIONS

| Name | Description | Quantity | Art. no. |
|--|--|----------|----------|
| Certified pH standards in accordance with IUPAC | | | |
| Supplied in airtight boxes; guaranteed shelf life in unopened condition: 4 years; with DKD certificate; traceable to NIST standard reference materials; accuracy ± 0.010 pH (25°C) | | | |
| pH 1.679 | | 500ml | S11M001 |
| pH 4.005 | | 500ml | S11M002 |
| pH 7.000 | | 500ml | S11M004 |
| pH 10.012 | | 500ml | S11M007 |
| High quality buffer solutions | | | |
| Ready to use; with and without colour-coding * | | | |
| pH 4.01 | Red | 500ml | 2283449 |
| pH 7.00 | Yellow | 500ml | 2283549 |
| pH 10.01 | Blue | 500ml | 2283649 |
| pH 4.01 | Colourless | 500ml | 1222349 |
| pH 7.00 | Colourless | 500ml | 1222249 |
| pH 10.00 | Colourless | 500ml | 1222149 |
| pH 1.09 | Technical grade, conforms to DIN 19267 | 500ml | S11M009 |
| pH 4.65 | Technical grade, conforms to DIN 19267 | 500ml | S11M010 |
| pH 9.23 | Technical grade, conforms to DIN 19367 | 500ml | S11M011 |
| Buffer powder pillows | | | |
| Individually sealed, for 50ml buffer solution; with and without colour-coding * | | | |
| pH 4.01 | Red | 50/pk | 2226966 |
| | | 250/pk | 2226964 |
| pH 7.00 | Yellow | 50/pk | 2227066 |
| | | 250/pk | 2227064 |
| pH 10.00 | Blue | 50/pk | 2227166 |
| | | 250/pk | 2227164 |
| SINGLET buffer solutions | | | |
| In airtight, colour-coded, individual 25ml pouches * | | | |
| pH 7.00 and pH 10.01 | Yellow + Blue | 2x 10/pk | 2769820 |
| pH 4.01 and pH 7.00 | Red + Yellow | 2x 10/pk | 2769920 |
| pH 4.01 | Red | 20/pk | 2770020 |
| pH 7.00 | Yellow | 20/pk | 2770120 |
| pH 10.01 | Blue | 20/pk | 2770220 |

CONDUCTIVITY STANDARD SOLUTIONS

| Name | Description | Quantity | Art. no. |
|--|------------------------------|----------|----------|
| Standards with certificate | | | |
| Supplied in an airtight box; guaranteed shelf-life; with certificate; traceable to NIST standard reference materials | | | |
| KCl 1 D | 111.3mS/cm $\pm 0.5\%$ | 500ml | S51M001 |
| KCl 0.1 D | 12.85mS/cm $\pm 0.35\%$ | 500ml | S51M002 |
| KCl 0.01 D | 1,408 μ S/cm $\pm 0.5\%$ | 500ml | S51M003 |
| NaCl 0.05% | 1,015 μ S/cm $\pm 0.5\%$ | 500ml | S51M004 |
| NaCl solutions | | | |
| 85.47mg/l as NaCl | 180 $\pm 10\mu$ S/cm | 100ml | 2307542 |
| 491mg/l as NaCl | 1,000 $\pm 10\mu$ S/cm | 100ml | 1440042 |
| 1,000mg/l as NaCl | 1,990 $\pm 20\mu$ S/cm | 100ml | 210542 |
| 10,246mg/l as NaCl | 18,000 $\pm 50\mu$ S/cm | 100ml | 2307442 |
| Molar KCl solutions | | | |
| KS910 | 12.88mS/cm | 500ml | C20C250 |
| KCl 0.1 M | | | |
| KS920 | 1.413mS/cm | 500ml | C20C270 |
| KCl 0.01 M | | | |
| KS930 | 146.9 μ S/cm | 500ml | C20C280 |
| KCl 0.001 M | | | |

* Buffer traceable to NIST standard reference materials, accuracy ± 0.02 pH (25°C); additional concentrations on request



Formulated in accordance with IUPAC requirements: Certified standards for pH and conductivity