

Material	85511.260
Material description	Buffer solution pH 4.01
Grade	

Additional information

Characteristics	Specifications
pH (25°C) (tolerance ± 0.02)	3.99 - 4.03
pH expanded uncertainty	± 0.02 (k=2; 95 %)
ISO 17034 accredited by BELAC	Accredit. N°: 542-RM
NIST traceable	Confirmed
Storage conditions (15°C to 25°C)	.

Signature

This document has been produced electronically and is valid without a signature.

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Certified Reference Material ISO 17034



Accreditation N°: 542-RM
VWR International bv
Geldenaaksebaan 464
BE-3001 Leuven, Belgium
Coverage available on: www.belac.be

Additional information

pH-Method: pH value is analyzed with a glass electrode after 4-point calibration following the validated standard procedure. The expanded uncertainty relevant for the user contains contributions of bottle to bottle variation (inhomogeneity), stability over time and laboratory measurement uncertainties, using a coverage factor k=2 for a 95 % coverage probability.

Preparation and use: This reference material is prepared gravimetrically from potassium hydrogen phthalate and high purity water. It is intended to be used for calibrating pH measurement devices.

Accreditation: VWR International bv is accredited as reference material producer according to ISO 17034. The batch homogeneity has been proven by analyzing minimum 6 samples distributed over the entire production process.

The pH of this buffer solution is traceable to and verified against primary Standard Reference Materials (SRM) from National Institute of Standards and Technology (NIST): SRM 188 and SRM 186 I + II.

This product is packed under nitrogen to sustain the shelf life. Maintenance of the nitrogen blanket after container has been opened is recommended. Store at +15°C to +25°C tightly closed in the original container and consume within 4 weeks after first opening.