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CERTIFICATE OF ANALYSIS

SO1009_26242601/1

Product	Buffer solution pH = 9,00 (20 °C) (Boric acid/Potassium chloride/Sodium hydroxide)	Batch	26242601
		Quality release date	31/10/2025
SO1009		Expiry date	10/2028

Analysis	Batch value	Specifications	±U
pH	9,01	8,99 - 9,01	0,01

Preparation
Standard buffer solutions are prepared using gravimetric and volumetric procedures according to DIN 19268.
Composition per litre is 3,1 g Boric Acid, 3,8 g Potassium chloride and 0,8 g Sodium hydroxide.

Temperature dependence of the pH value
When calibrating your pHmeter at different temperatures than 20ºC, refer to the table below to introduce accurate pH values.

T (°C)	pH
0	9,24
5	9,16
10	9,11
15	9,05
20	9,00
25	8,95
30	8,91
35	8,88
40	8,85
45	8,82
50	8,79

Traceability
This pH buffer solution is traceable to the International System of Units through Standard Reference Materials® from NIST:
SRM 185 Potassium hydrogen phthalate,
SRM 186 Phosphate Buffers,
SRM 187 Sodium tetraborate,
SRM 189 Potassium tetroxalate and
SRM 2193 Calcium carbonate.

Uncertainty
It characterises the dispersion of the values that could be attributed to the measurand. The limits of the expanded uncertainty are given at a confidence level of 95% (k=2).

Measurement
The batch value is determined by measurement with a combination glass electrode against multiple-point calibration according to DIN 19268.
Batch value certified at the time of measurement.

Intended use
This reference material is intended for the calibration of pH meters and electrodes used for pH measurement or as a control sample for measuring the pH value.
For laboratory use only.

Storage
If product is stored and unopened, this solution is stable for 3 years from the date of manufacturing.
Once the bottle is opened, store tightly closed at room temperature. Avoid exposure to light.
We suggest rejecting the solution six months after opening.
Never introduce the electrode in the bottle for measurements.
Never pour the used solution back in the bottle.

Marta Martinez Casals
Laboratory Technician