Scharlab S.L.
Gato Pérez, 33. Pol. Ind. Mas d'en Cisa
08181 Sentmenat
+34937456400
helpdesk@scharlab.com

CERTIFICATE OF ANALYSIS

Product	Buffer solution pH = 9,00 (20 °C) (Boric acid/Potassium chloride/Sodium hydroxide)	Batch	18453301
		Quality release date	03/11/2017
SO1009		Expiry date	11/2019

Analysis	Batch value	Specifications	±U
pH at 20 ºC	9,002	8,99 - 9,01	0,01

Preparation
Standard buffer solutions are prepared using gravimetric and volumetric procedures.
Composition per litre is 3,1g Boric Acid, 3,8g Potassium chloride and 0,8g 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 Standard Reference Material from NIST
SRM 185i Potassium hydrogen phthalate,
SRM 186g Phosphate Buffers,
SRM 187e Sodium tetraborate,
SRM 189c Potassium tetroxalate and
SRM 2193a Calcium carbonate

Uncertainty
It characterises the dispersion of the values that could be attributed to the mesurand. 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 five-point calibration according to DIN 19268. The use of more than five points does not yield any significant improvement in the statistical information obtainable.
Calibration standards are prepared according to DIN 19266.
Batch value certified at the time of measurement

Storage and use
For pH-meter calibration
If product is stored and unopened, this solution is stable for 2 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.

This certificate does not exempt the user from checking the results upon receipt of the goods.
Any copy of our CoA may be obtained from our website at www.scharlab.com

M. Canet
Laboratory Manager