Scharlab S.L.

Crtra.Polinya a Sentmenat, Km 8,2

08181 Sentmenat

📞 +34937456400

✉ helpdesk@scharlab.com

CERTIFICATE OF ANALYSIS

SO1141_23174201/1

Product	Buffer solution pH = 11,00 (20 °C) (Boric acid/Sodium hydroxide/Potassium chloride)	Batch	23174201
		Quality release date	29/09/2022
SO1141		Expiry date	09/2025

Analysis	Batch value	Specifications	±U
pH	11,01	10,98 - 11,02	0,01

Preparation

Standard buffer solutions are prepared using gravimetric and volumetric procedures according to DIN 19266.
Composition per litre is 6,2 g Boric acid, 3,9 g Sodium hydroxide and 3,8 g Potassium chloride

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	11,45
5	11,32
10	11,20
15	11,10
20	11,00
25	10,90
30	10,81
35	10,72
40	10,64
45	10,56
50	10,48

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.

Storage and use

For pH-meter calibration
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.
For laboratory use only.

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

Ricard Balladares Abella
Laboratory Technician