

**Scharlab S.L.**

Crtra.Polinya a Sentmenat, Km 8,2

08181 Sentmenat

☎ +34937456400

✉ helpdesk@scharlab.com

**CERTIFICATE OF ANALYSIS****SO1010\_21839401/1**

Product Buffer solution pH = 10,00 (20 °C) (Sodium carbonate/Sodium hydrogen carbonate)

Batch 21839401

Quality release date 09/06/2021

Expiry date 06/2023

**SO1010**

Analysis	Batch value	Specifications	±U
pH	10,02	9,98 - 10,02	0,01

**Preparation**

Standard buffer solutions are prepared using gravimetric and volumetric procedures according to DIN19266.

Composition per litre is 2,44g Sodium carbonate and 2,09g Sodium hydrogen carbonate

**Temperature dependence of the pH value**

When calibrating your pHmeter at different temperatures than 20°C, refer to the table below to introduce accurate pH values.

T (°C)	pH
0	10,25
5	10,18
10	10,12
15	10,06
20	10,00
25	9,97
30	9,93
35	9,91
40	9,89
45	9,83
50	9,78

**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.