

SO1009 Buffer solution pH = 9,00 (20 °C) (Boric acid/Potassium chloride/Sodium hydroxide)

- Density: ~ 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00
- Applications: in buffer solutions.

pH at 20 °C 9,00
uncertainty ± 0,01
Composition per litre is 3,1g Boric Acid, 3,8 g Potassium chloride and 0,8 g Sodium hydroxide
Standard buffer solutions are prepared using gravimetric and volumetric procedures. The batch value is determined by measurement with a combination glass electrode against five-point calibration according to DIN 19268. This pH buffer solution is traceable to Standard Reference Material from NIST.

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

ART. NO.	VOLUME	CONTAINER
SO10090250	250 ml	Ⓟ
SO10091000	1 l	Ⓟ
SO1009025P	25 l	Ⓟ

SO1092 Buffer solution pH = 9,26 (20 °C) (di-Sodium tetraborate decahydrate)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 2660 mg/kg (pure substance)
- Tariff number: 3822 00 00 00
- Applications: in buffer solutions.

pH at 20 °C 9,26
uncertainty ± 0,01
Composition per litre is 3,7 g di-Sodium tetraborate decahydrate.
Standard buffer solutions are prepared using gravimetric and volumetric procedures. The batch value is determined by measurement with a combination glass electrode against five-point calibration according to DIN 19268. This pH buffer solution is traceable to Standard Reference Material from NIST.

T (°C)	pH
0	9,43
5	9,41
10	9,35
15	9,30
20	9,26
25	9,21
30	9,16
35	9,10
40	9,09
45	9,07
50	9,03

ART. NO.	VOLUME	CONTAINER
SO10920250	250 ml	Ⓟ
SO10921000	1 l	Ⓟ

SO1010 Buffer solution pH = 10,00 (20 °C) (Sodium carbonate/Sodium hydrogen carbonate)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -6 °C
- Boiling point: 110 °C
- Tariff number: 3822 00 00 00
- Applications: to fit pH of the reaction media.

pH at 20 °C 10,00
uncertainty ± 0,02
Composition per litre is 2,64 g Sodium carbonate and 2,09 g Sodium hydrogen carbonate
Standard buffer solutions are prepared using gravimetric and volumetric procedures. The batch value is determined by measurement with a combination glass electrode against two-point calibration according to DIN 19268. This pH buffer solution is traceable to Standard Reference Material from NIST.

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

ART. NO.	VOLUME	CONTAINER
SO10100250	250 ml	Ⓟ
SO10101000	1 l	Ⓟ
SO1010005P	5 l	Ⓟ
SO1010010C	10 l	Ⓟ
SO1010025P	25 l	Ⓟ

SO1141 Buffer solution pH = 11,00 (20 °C) (Boric acid/Sodium hydroxide/Potassium chloride)

- Density: 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00
- Applications: to fit pH of the reaction media.

pH at 20 °C 11,00
uncertainty ± 0,02
Composition per litre is 3,1 g Boric Acid, 1,84g Sodium hydroxide and 3,4 g Potassium chloride.
Standard buffer solutions are prepared using gravimetric and volumetric procedures. The batch value is determined by measurement with a combination glass electrode against two-point calibration according to DIN 19268. This pH buffer solution is traceable to Standard Reference Material from NIST.

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

ART. NO.	VOLUME	CONTAINER
SO11410250	250 ml	Ⓟ
SO11411000	1 l	Ⓟ