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SO1142 Buffer solution pH = 12,00 (20°C) (di-Sodium hydrogen phosphate/Sodium hydroxide)

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

pH at 20 °C 12,00
uncertainty ± 0,02
Composition per litre is 10,6g di-Sodium hydrogen phosphate and 3,10 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 two-point calibration according to DIN 19268. This pH buffer solution is traceable to Standard Reference Material from NIST.

T (°C)	pH
0	12,58
5	12,41
10	12,26
15	12,10
20	12,00
25	11,88
30	11,72
35	11,67
40	11,54
45	11,41
50	11,33

ART. NO.	VOLUME	CONTAINER
SO11420250	250 ml	Ⓟ
SO11421000	1 l	Ⓟ

SO1143 Buffer solution pH = 13,00 (20°C) (Potassium chloride/Sodium hydroxide)

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

pH at 20 °C 13,00
uncertainty ± 0,02
Composition per litre is 3,73g Potassium chloride and 1,92g 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 two-point calibration according to DIN 19268. This pH buffer solution is traceable to Standard Reference Material from NIST.

T (°C)	pH
0	13,80
5	13,59
10	13,37
15	13,18
20	13,00
25	12,83
30	12,67
35	12,59
40	12,41
45	12,28
50	12,15

ART. NO.	VOLUME	CONTAINER
SO11430250	250 ml	Ⓟ
SO11431000	1 l	Ⓟ
SO1143005P	5 l	Ⓟ

STANDARDS, COLOURED BUFFER SOLUTIONS FOR pH-METER CALIBRATION

SO2004 Buffer solution pH = 4,00 (20°C), red-coloured

- 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 4,00
uncertainty ± 0,01
Composition per litre is 10,21 g Potassium hydrogen phthalate.
Contains preservative.
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	4,01
5	4,00
10	4,00
15	4,00
20	4,00
25	4,01
30	4,02
35	4,03
40	4,04
45	4,05
50	4,06

ART. NO.	VOLUME	CONTAINER
SO20040250	250 ml	Ⓟ
SO20040500	500 ml	Ⓟ
SO20041000	1 l	Ⓟ

SO3004 Buffer solution pH = 4,00 (25 °C), red-coloured

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

pH at 25 °C 4,00
uncertainty ± 0,01
Composition per litre is 10,3 g Potassium hydrogen phthalate.
Contains preservative.
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	4,00
5	4,00
10	4,00
15	4,00
20	4,00
25	4,00
30	4,01
35	4,01
40	4,02
45	4,02
50	4,03

ART. NO.	VOLUME	CONTAINER
SO30040250	250 ml	Ⓟ
SO30041000	1 l	Ⓟ