

STANDARDS, BUFFER SOLUTIONS FOR pH-METER CALIBRATION

KT0001 Buffer solution pH= 4,00, 7,00, 10,00 (20 °C), coloured MIX

- Tariff number: 3822 00 00 00

pH (red) at 20°C 4,00
 uncertainty ± 0,01 Composition per litre is 10,21 g Potassium hydrogen phthalate.
 Contains preservative.

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

pH (yellow) at 20 °C 7,00
 uncertainty ± 0,01
 Composition per litre is 3,54 g Potassium dihydrogen phosphate and 14,7 g di-Sodium hydrogen phosphate.
 Contains preservative.

T (°C)	pH
0	7,13
5	7,07
10	7,05
15	7,02
20	7,00
25	6,98
30	6,98
35	6,96
40	6,95
45	6,95
50	6,95

pH (blue) at 20 °C 10,00
 uncertainty ± 0,02 Composition per litre is 2,64 g Sodium carbonate and 2,09g Sodium hydrogen carbonate.

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
KT00016000	6x1l	Ⓟ

SO1101 Buffer solution pH = 1,00 (20 °C) (Hydrochloric acid/Sodium chloride)

- 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 1,00
 uncertainty ± 0,01
 Composition per litre is 0,17 g Glycine, 0,13 g Sodium chloride and 11ml Hydrochloric acid concentrated.
 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	0,96
5	0,99
10	0,99
15	0,99
20	1,00
25	1,01
30	1,01
35	1,01
40	1,01
45	1,01
50	1,01

ART. NO.	VOLUME	CONTAINER
SO11010250	250 ml	Ⓟ
SO11011000	1 l	Ⓟ

SO1022 Buffer solution pH = 2,00 (20 °C) (Citric acid/Sodium hydroxide/Hydrochloric acid)

- 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 2,00
 uncertainty ± 0,01
 Composition per litre is 6,43 g Citric acid, 2,40 g Sodium hydroxide and 6,13 ml Hydrochloric acid.
 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	2,01
5	2,01
10	2,01
15	2,00
20	2,00
25	2,00
30	2,00
35	2,00
40	2,00
45	2,00
50	2,00

ART. NO.	VOLUME	CONTAINER
SO10220250	250 ml	Ⓟ
SO10221000	1 l	Ⓟ

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z