

**SO1023 Buffer solution pH = 3,00 (20 °C) (ortho-Phosphoric acid/Sodium hydroxide)**

- Density: ~ 1,00 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00
- Applications: in buffer solutions.

pH at 20 °C . . . . . 3,00  
 uncertainty ± 0,01  
 Composition per litre is 0,7 ml  
 ortho- Phosphoric acid concentrated and 15 ml  
 Sodium hydroxide 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	2,96
5	2,96
10	2,97
15	2,98
20	3,00
25	3,01
30	3,01
35	3,01
40	3,01
45	3,01
50	3,01







ART. NO.	VOLUME	CONTAINER
SO10230250	250 ml	
SO10231000	1 l	

**SO1004 Buffer solution pH = 4,00 (20 °C) (Potassium hydrogen phthalate)**

- Density: 1,01 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00
- Applications: for calibrating pH-meters, analytical chemistry.

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	4,00
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
SO10040250	250 ml	
SO10040500	500 ml	
SO10041000	1 l	
SO1004005P	5 l	
SO1004010C	10 l	
SO1004025P	25 l	

**SO1005 Buffer solution pH = 4,01 (20 °C) (Potassium hydrogen phthalate)**

- Density: ~ 1,00 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00
- Applications: in buffer solutions.

pH at 20 °C . . . . . 4,01  
 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	4,01
25	4,01
30	4,02
35	4,02
40	4,03
45	4,05
50	4,05


ART. NO.	VOLUME	CONTAINER
SO10050250	250 ml	
SO10051000	1 l	

**SO1025 Buffer solution pH = 5,00 (20 °C) (Acetic acid/Potassium hydroxide)**

- Density: ~ 1,00 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00
- Applications: in buffer solutions.

pH at 20 °C . . . . . 5,00  
 uncertainty ± 0,01  
 Composition per litre is 0,7ml  
 Acetic acid glacial and 0,6 g  
 Potassium hydroxide.  
 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	4,97
5	4,98
10	4,99
15	5,00
20	5,00
25	5,01
30	5,01
35	5,02
40	5,02
45	5,03
50	5,03

ART. NO.	VOLUME	CONTAINER
SO10250250	250 ml	
SO10251000	1 l	
SO1025025P	25 l	