

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

Taric code: 3822 00 00

**Applications**

This reference material is intended for the calibration of pH meters and electrodes used for pH measurement or as a control sample for measuring the pH value.

**Specifications**

pH at 20 °C..... 4,00  
specification range..... 3,99 - 4,01  
uncertainty ..... ± 0,01  
Composition per litre is 10,2 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 |

**Physical data**

- Density: 1,01 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- pH(20 °C) 4,00

**Transport/storage**

- 10°C - 30°C