

**Buffer solution pH = 8,00 (20 °C)** (Boric acid/Potassium chloride/Sodium hydroxide)**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..... 8,00  
specification range..... 7,99 - 8,01  
uncertainty ..... ± 0,01

Composition per litre is 3,1 g Boric acid, 3,7 g Potassium chloride and approx. 39,8 g Sodium hydroxide 0,1N.

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..... 8,15

5..... 8,10  
10..... 8,07  
15..... 8,04  
20..... 8,00  
25..... 7,96  
30..... 7,94  
35..... 7,92  
40..... 7,90  
45..... 7,87  
50..... 7,85

**Physical data**

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

**Transport/storage**

- 10°C - 30°C