SO1009

Buffer solution pH = 9,00 (20 °C) (Boric acid/Potassium chloride/Sodium hydroxide)

Identification

Taric code: 3822 00 00

Applications

in buffer solutions.

Specifications

pH at 20 °C..... 9,00
specification range..... 8,99 - 9,01
uncertainty ..... ± 0,01
Composition per litre is 3,1g Boric Acid, 3,8g Potassium chloride and 0,8g 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 five-point calibration according to DIN 19268.
This pH buffer solution is traceable to Standard Reference Material from NIST.
T (°C)pH
0..... 9,24
5..... 9,16
10..... 9,11
15..... 9,05
20..... 9,00
25..... 8,95
30..... 8,91
35..... 8,88
40..... 8,85
45..... 8,82
50..... 8,79

Physical data

- Density: ~ 1,00 g/cm3
- Solub. in water: (20 °C): miscible
- pH(H_2O, 20 °C) 9,0

Transport/storage

- 15°C - 25°C