

Buffer Quality Control Certificate

Nominal Specifications

pH Buffer Solution	NIST/DIN Buffer pH 9.180
Order number	51350056

Buffer Properties

Actual pH Value	9.184	(The expanded uncertainty (k = 2) of the measurement is 0,02 pH)
Lot No. Solution	1B307K	
Buffer Substances	di-Sodium tetraborate decahydrate	
Production Date	November 2, 2016	
Expiry Date	November 2, 2017	

Traceability

For the calibration of the pH value of our buffer solutions, the potentiometric measuring instruments were calibrated using two different reference buffer solutions, based on primary pH reference materials of the NIST¹.

The National Metrology Institutes compare their measurement capabilities periodically in key comparisons within the CIPM-MRA².

The international comparability, harmonization and the equivalence of their measurement capabilities are therefore ensured.

This guarantees a flawless traceability of the certified pH buffer solution values to NIST along with our Quality Management System. The certification is done for each lot.

Procedure	Two point calibration		
NIST Standard solution value	10.012 +/- 0.006 (25°C) 9.182 +/- 0.005 (25°C)		
Standard Reference Material SRM NIST	Sodium Carbonate	Sodium Bicarbonate	Sodium Tetraborat Decahydrate (Borax)
Lot No SRM NIST	191d-1	191d-II	187e

- 1 National Institute of Standards and Technology, Gaithersburg, USA
- 2 Mutual Recognition Arrangement of National Measurement Standards and of Calibration Certificates issued by National Metrology Institutes

Date of Certificate Issue	November 2, 2016
Quality Control	 Peter Rowing