

Certificate of Analysis

Buffer, Reference Standard, pH 9.00 ± 0.01 at 25°C

Lot Number: 4404P25

Product Number: 1590

Manufacture Date: APR 05, 2024

Expiration Date: APR 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST Traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	10	15	20	25	30	35	40	45	50
pH	9.14	9.10	9.05	9.00	8.97	8.93	8.91	8.89	8.87

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Hydroxide	1310-73-2	Reagent
Preservative	Proprietary	
Boric Acid	10043-35-3	ACS
Potassium Chloride	7447-40-7	ACS

Test	Specification	Result
Appearance	Colorless liquid	Passed *Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	9.006	0.02	186-I-g, 186-II-g, 191d

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1590-1	4 L natural poly	24 months
1590-16	500 mL natural poly	24 months
1590-2.5	10 L Cubitainer®	24 months
1590-32	1 L natural poly	24 months
1590-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (04/05/2024)

Production Manager

This product was tested in an ISO 17025 Accredited Laboratory

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