Arlington, TX 76012
Pocomoke City, MD 21851
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

## **Product Specification**

Buffer, Reference Standard, pH 11.00 ± 0.01 at 25°C

Lot Number: SAMPLE Product Number: 1610

Manufacture Date: N/A

Expiration Date: N/A

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 15 20 25 30 35 40 45 50 pH 11.16 11.08 11.00 10.88 10.86 10.78 10.73 10.66

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Sodium Hydroxide	1310-73-2	Reagent

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

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	10.990-11.010	0.02	186-I-g, 186-II-g, 191d

pH measurements were performed in our Arlington, TX, Pocomoke City, MD, or Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387) 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)
1610-1	4 L natural poly	18 months
1610-16	500 mL clear PET-G	18 months
1610-1CT	4 L Cubitainer®	18 months
1610-2.5	10 L Cubitainer®	18 months
1610-20	20 x 20 mL pack	18 months
1610-32	1 L natural poly	18 months
1610-5	20 L Cubitainer®	18 months
1610-8	250 mL natural poly	18 months

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

Version: 1.3 Lot Number: SAMPLE Product Number: 1610 Page 1 of 2

This document is designed to comply with ISO Guide 31 "Reference Materials  $^{\rm --}$  Contents of Certificates and Labels." This product was tested in an ISO 17025 Accredited Laboratory This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Product Number: 1610

Lot Number: SAMPLE

Version: 1.3

Page 2 of 2