## RICCA CHEMICAL COMPANY

Manufacture Date: MAR 14, 2024

186-I-g, 186-II-g, 191d

## **Certificate of Analysis**

Product Number: 1595

## Buffer, Reference Standard, pH $9.18 \pm 0.01$ at $25^{\circ}$ C

Lot Number: 2403H57				<b>P</b> :	Product Number: 1595							Expiration Date: SEP 2025
The certified value for this product is confirmed in independent testing by a second qualified chemist.												
°C pH	$\begin{array}{c} 0\\ 9.463\end{array}$	5 9.395	10 9.333	$\begin{array}{c} 15\\ 9.277\end{array}$	$20 \\ 9.226$	$25 \\ 9.180$	$30 \\ 9.139$	$35 \\ 9.102$	$\begin{array}{c} 40\\9.070\end{array}$	$\begin{array}{c} 45\\9.042\end{array}$	50 9.018	
Name						CA	\S#			Grade		
Water						77	32-18-5			ACS/AS	STM/USP	P/EP
Sodium Tetraborate Decahydrate				1303-96-4			ACS					
Test					Specification			Re	esult			
Appearance					Colorless liquid			Pa	ssed	*Not a certified value		
Test					Certified Value			U	ncertainty	y NIST SRM#		

pH at 25°C (Method: SQCP027, SQCP033)

Lot Number: 2403H57

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) 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.

9.185

0.02

Part Number	Size / Package Type	Shelf Life (Unopened Container)					
1595-16	500 mL natural poly	18 months					
1595-2.5	10 L Cubitainer®	18 months					
1595-20	20 x 20 mL pack	18 months					
$\mathbf{D}_{1}$							

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

Jose Pena (03/14/2024)

**Operations Manager** This document is designed to comply with ISO Guide 31 "Reference Materials --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.