RICCA CHEMICAL COMPANY®					448 West Fork Dr Arlington, TX 76012 http://www.riccachemical.com 1-888-GO-RICCA customerservice@riccachemical.com		
Certifica	ate of A	nalysi	.S				
Buffer, Reference Standard,	, pH 4.00 ± 0.0	01 at 25°C					
Lot Number: 1301A15	Product Numbe	Jumber: 1500			Manufacture Date: JAN 16, 2023 Expiration Date: JAN 2023		
The certified value for this product is confir The NIST traceable pH value is certified to					tomporature	a_{2} are accurate to ± 0.05	
°C 0 5 10 15 pH 4.00 4.00 4.00 4.00	20 25	30 35 4.01 4.02	40	45 4.04	50 4.06	\rightarrow are accurate to \pm 0.00.	
Name	CA	AS#		Grade			
Water	77	32-18-5		ACS/AS	STM/USP/E	2P	
Potassium Acid Phthalate		877-24-7		Buffer			
Preservative		Proprietary		Commercial			
Fest		Specification		Result			
Appearance		Colorless liquid		Passed		*Not a certified value	
Test		Certified Value		Uncertainty		NIST SRM#	
pH at 25°C(Method: SQCP027, SC	QCP033)	4.000		0.0)2	185i, 186-I-g, 186-II-g	
Specification	Reference						
Phthalate Reference Buffer Solutio	er Solution (pH = 4.00 at 25°C) ASTM (D 1498)						
pH measurements were performed in our A traceable to National Institute of Standard comparisons. The uncertainty is calculated Standard Reference Material, and the uncertainty a normal distribution. Volumetric glassware before first use and recalibrated regularly weights certified traceable to the NIST nat regularly with a thermometer traceable to according to validated methods. Batch reco	Is and Technology (NIS I from the uncertainty ertainty of the measur re complies with Class in accordance with AS cional mass standard. ' NIST standards. All p	ST) Standard Refe of the measureme ement process. Th A tolerance requi TM E 542 and NI Thermometers an products are prepa	erence Mate ent variation ie uncertain irements of ST Procedur d temperatu red accordin	rial as ind from sam ty is multi ASTM E 2 re NBSIR ure probes ng to maste	icated above w pple to sample plied by k=2, 88 and NIST 74-461. Balan are calibrated er documents	via an unbroken chain of c, the uncertainty in the NIST corresponding to 95% coverage in Circular 434; it is calibrated ces are calibrated regularly with l before first use and recalibrated that assure manufacture	
Part Number	Size / Pac	e / Package Type		Shelf Life (Unopened Container)	
1500-1	4 L natur				24 months		

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

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Jason Thomas (01/16/2023) 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.