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## **Certificate of Analysis**

## Hydrochloric Acid, 25% (v/v)

Lot Number: 2403K22 Product 1	Number: 3577	Manufacture Date: MAR 21, 2024 Expiration Date: MAR 2027		
Name	CAS#	Grade		
Water	7732-18-5	ACS/ASTM/USP/EP		
Hydrochloric Acid	7647-01-0	ACS		
Test	Specification	Result	NIST SRM#	
Appearance	Colorless to slightly greenish-yellow liqu	Passed		
Assay (vs. Sodium Hydroxide/Phenolphthalei	n) $24.9-25.1\%$ (v/v)	24.9 % (v/v)	84	
Specification	Reference			
Hydrochloric Acid (1+3)	А	ASTM (D 3869 A)		
Hydrochloric Acid (1+3)	ASTM (D 128)			
Hydrochloric Acid, Dilute (1+3)	ASTM (D 3712)			
Volumetric glassware complies with Class A tolerance r recalibrated regularly in accordance with ASTM E 542 a traceable to the NIST national mass standard. Thermon thermometer traceable to NIST standards. All products methods. Batch records document raw material traceable	nd NIST Procedure NBSIR 74-46 neters and temperature probes are are prepared according to master	<ol> <li>Balances are calibrated regularly e calibrated before first use and reca documents that assure manufactur</li> </ol>	v with weights certified alibrated regularly with a	
Part Number Siz	e / Package Type	Shelf Life (Unope	ened Container)	
3577-1 4 I	natural poly	36 months		
3577-16 500	) mL natural poly	36 months		
		0.0 1		

3577-5

Jose Pena (03/21/2024) Operations Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

20 L Cubitainer®

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

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

36 months