

## **Certificate of Analysis**

## Hydrochloric Acid, 20% (v/v)

Lot Number: 2403G33 Product Number: 3574			Manufacture Date: MAR 11, 202 Expiration Date: FEB 202	
Name	CAS#	Grade		
Water	7732-18-5	ACS/AS'	TM/USP/EP	
Hydrochloric Acid	7647-01-0	ACS		
Test	Specification		Result	NIST SRM#
Appearance	Colorless to slightly greenish-yellow liq		Passed	
Assay (vs. Sodium Hydroxide/Phenolphthalein)	19.92-20.08 % (v/v)		20.08 % (v/v)	84
Specification	Reference			
Hydrochloric Acid (1+4)	ASTM (D 4994 B)			
Hydrochloric Acid Solution (1:4)	EPA (320.1)			
Hydrochloric Acid (1+4)	ASTM (D 932)			
Hydrochloric Acid (1+4)	ASTM (D 1126)			
Hudrochloric Acid (1+4)	ASTM (D 1425)			
Volumetric glassware complies with Class A tolerance requirecalibrated regularly in accordance with ASTM E 542 and traceable to the NIST national mass standard. Thermometer thermometer traceable to NIST standards. All products are methods. Batch records document raw material traceability	NIST Procedure NBSIR 74-4 ers and temperature probes and prepared according to master	61. Balances are re calibrated befo r documents that	calibrated regularly with ore first use and recalibre t assure manufacture ac	th weights certified rated regularly with a
Part Number Size /	Package Type	S	Shelf Life (Unopene	d Container)
3574-1 4 L na	atural poly	3	86 months	
3574-2.5 10 L G	Cubitainer®	3	36 months	

3574-5 20 L Cubitainer® Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (03/11/2024) Operations Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

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36 months