

## **Certificate of Analysis**

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

Lot Number: 2309L40 Product Nu	1 <b>mber:</b> 3574	Manufacture Date: SEP 22, 20 Expiration Date: SEP 20
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 liquid	Passed d
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)	
Hydrochloric Acid (1+4)	ASTM (D 1425)	
Volumetric glassware complies with Class A tolerance req recalibrated regularly in accordance with ASTM E 542 and traceable to the NIST national mass standard. Thermomet thermometer traceable to NIST standards. All products ar methods. Batch records document raw material traceability	d NIST Procedure NBSIR 74-461. ters and temperature probes are of e prepared according to master do	. Balances are calibrated regularly with weights certified calibrated before first use and recalibrated regularly with ocuments that assure manufacture according to validated
Part Number Size	/ Package Type	Shelf Life (Unopened Container)
3574-1 4 L r	natural poly	36 months
3574-16 500	mL natural poly	36 months
3574-2.5 10 L	Cubitainer®	36 months
	<i>α</i>	

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

NOU

Sharon Travers (09/22/2023) Operations Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

3574-5 20 L Cubitainer®

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36 months