

Certificate of Analysis

Hydrochloric Acid, 0.100 Normal (N/10) in Isopropyl Alcohol

Lot Number: 4312J12

Product Number: 3800

Manufacture Date: DEC 21, 2023

Expiration Date: DEC 2024

Name	CAS#	Grade
Isopropyl Alcohol	67-63-0	ACS
Water	7732-18-5	ACS
Hydrochloric Acid	7647-01-0	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Sodium Hydroxide/Phenolphthalein)	0.0995-0.1005 N at 20°C	0.1005 N at 20°C	84

Specification	Reference
Hydrochloric Acid Solution, Standard Alcoholic (0.1 mol/L)	ASTM (D 664)
Hydrochloric Acid Solution, Standard Alcoholic (0.1 M)	ASTM (D 974)

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.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
3800-1	4 L natural poly	12 months
3800-32	1 L natural poly	12 months
3800-5	20 L Cubitainer®	12 months

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



Paul Brandon (12/21/2023)

Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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