

Manufacture Date: MAY 02, 2024

## **Certificate of Analysis**

## Hydrochloric Acid, 0.200 Normal (N/5) in Isopropyl Alcohol

mber: 3802		Expiration I	Date: APR 202
CAS#	Grade		
7732-18-5	ACS		
7647-01-0	ACS		
67-63-0	ACS		
Specification		Result	NIST SRM#
Colorless liquid		Passed	
0.1995-0.2005 N at 2	0°C	0.2003 N at 20°C	84
Reference			
	CAS# 7732-18-5 7647-01-0 67-63-0 Specification Colorless liquid 0.1995-0.2005 N at 24	CAS# Grade   7732-18-5 ACS   7647-01-0 ACS   67-63-0 ACS   Specification Colorless liquid   0.1995-0.2005 N at 20°C ACS	CAS#Grade7732-18-5ACS7647-01-0ACS67-63-0ACSSpecificationResultColorless liquidPassed0.1995-0.2005 N at 20°C0.2003 N at 20°C

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Specification		101010100		
Hydrochloric Acid Solution, Stan	dard Alcoholic (0.2 mol/L)	ASTM (D 664)		
Hydrochloric Acid, Standard Alco	oholic (0.2 M)	ASTM (D 974)		
Hydrochloric Acid, Standard Alco	oholic Solution (0.2 N)	ASTM (D 3242)		
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 (U	nopened Container)	

1 art Humber	Size / Fackage Type	Shell Life (Unopened Container)
3802-16	500 mL natural poly	12 months
3802-32	1 L natural poly	12 months
3802-5	20 L Cubitainer®	12 months
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Recommended Storage: 15°C - 30°C (59°F - 86°F)

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Paul Brandon (05/02/2024) Production Manager

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