

Manufacture Date: N/A

## **Product Specification**

## Ammonium Hydroxide, 33% (v/v)

Lot Number: SAMPLE	Product Number: 638		Expiration Date: N/A
Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Ammonium Hydroxide	1336-21-6	ACS	
Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	N/A	
Assay (vs. Sulfuric Acid/Methyl ]	Red) 32.7-33.3 % (v/v)	N/A	723
Assay (vs. Sulturic Acid/Methyl	Ked) 32.7-33.3 % (v/v)	N/A	

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)
638-16	500 mL natural poly	24 months

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

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

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