

## **Certificate of Analysis**

## Ammonium Hydroxide, 5.00 Normal

Lot Number: 2311L91 Product Number: 644			Manufacture Date: NOV 29, 202 Expiration Date: NOV 202	
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	Passed		
Assay (vs. Sulfuric Acid/Methyl Red)	4.995-5.015 N at 20°C	5.014 N at 20°C	723	
Specification	Ref	erence		
Ammonium Hydroxide, 5 N Ammonium Hydroxide, 5 N Volumetric glassware complies with Class A toleranc recalibrated regularly in accordance with ASTM E 54 traceable to the NIST national mass standard. Therm thermometer traceable to NIST standards. All produc methods. Batch records document raw material trace	API e requirements of ASTM E 288 and NIS 2 and NIST Procedure NBSIR 74-461. I cometers and temperature probes are ca ts are prepared according to master door	Balances are calibrated regularly v librated before first use and recali cuments that assure manufacture	with weights certified ibrated regularly with a	
Part Number	Size / Package Type	Shelf Life (Unoper	ned Container)	
644-16	600 mL natural poly	24 months		

Jose Pena (11/29/2023) Operations Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.