

Product Specification

Ammonium Hydroxide, 5.00 Normal

Lot Number: SAMPLE

Product Number: 644

Manufacture Date: N/A

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) | 4.995-5.015 N at 20°C | N/A | 723 |

| Specification | Reference |
|-------------------------|------------------|
| Ammonium Hydroxide, 5 N | APHA (7500-Ra B) |
| Ammonium Hydroxide, 5 N | APHA (3500-Cu B) |

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) |
|-------------|---------------------|---------------------------------|
| 644-32 | 1 L natural poly | 24 months |
| 644-1 | 4 L natural poly | 24 months |
| 644-16 | 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."