

### AMMONIUM HYDROXIDE REAGENT GRADE

**NH<sub>4</sub>OH**

**Formula Weight 35.05**

#### General Information

Ammonium hydroxide (aqua ammonia) covered by this specification will meet the ACS Reagent Grade requirements as follows:

Assay	18% - 19.9% NH <sub>3</sub>
Appearance	Colorless and free from suspended matter or sediment.
Impurities	
Residue After Ignition	0.002% maximum
Carbon Dioxide (CO <sub>2</sub> )	0.002% maximum
Chlorides (Cl)	0.5 ppm maximum
Nitrate (NO <sub>3</sub> )	2 ppm maximum
Sulfates (SO <sub>4</sub> )	2 ppm maximum
Phosphates (PO <sub>4</sub> )	2 ppm maximum
Lead (Pb)	0.5 ppm maximum
Iron (Fe)	0.2 ppm maximum
Substance Reducing Permanganate	To pass test

This product is exempt from the submission requirements of the Federal EPA Risk Management Program.

\* This product exceeds the specifications established by the Airgas Specialty Products Technical Grade Ammonium Hydroxide (Aqua Ammonia) product specification sheet.

NOTE: When performing assay tests, sample container and contents shall be cooled to 5°C -10°C and maintained at this temperature to prevent loss of ammonia gas when opening and transferring for analysis.  
All transferring shall be done as quickly as possible.

PS 4.2