

**AMMONIUM HYDROXIDE  
(AQUA AMMONIA)  
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	28% - 30% 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
Chloride (Cl)	0.5 ppm maximum
Phosphate (PO <sub>4</sub> )	2 ppm maximum
Total Sulfur (SO <sub>4</sub> )	2 ppm maximum
Heavy Metals (Pb)	0.5 ppm maximum
Iron (Fe)	0.2 ppm maximum
Substances Reducing Permanganate	To pass test

NOTE: When performing assay tests, sample container and contents shall be cooled to 5°C and 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.