

**AMMONIUM HYDROXIDE
(AQUA AMMONIA)
REAGENT GRADE**

NH₄OH

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 ₃
Appearance	Colorless and free from suspended matter or sediment.
Impurities	
Residue after ignition	0.002% maximum
Carbon Dioxide (CO ₂)	0.002% maximum
Chloride (Cl)	0.5 ppm maximum
Nitrate (NO ₃)	2 ppm maximum
Phosphate (PO ₄)	2 ppm maximum
Total Sulfur (SO ₄)	2 ppm maximum
Heavy Metals (Pb)	0.5 ppm maximum
Iron (Fe) Substances	0.2 ppm maximum
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.