



Product Specification

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
Phosphate (PO ₄)	2 ppm maximum
Total Sulfur (SO ₄)	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.

PS 5.2

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