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## Product Specification

Product Name:

Ammonium hydroxide solution – ACS reagent, 28.0–30.0% NH<sub>3</sub> basis

Product Number:

221228

NH<sub>4</sub>OH

MDL:

MFCD00066650

Formula:

H5NO

Formula Weight:

35.05 g/mol

Storage Temperature:

2 - 8 °C

TEST	Specification
Appearance (Color)	Colorless
Appearance (Form)	Liquid
Free of Suspended Matter	
Titration with HCl NH <sub>3</sub>	28.0 - 30.0 %
Sulfate	≤ 2 ppm
Substances reducing MnO <sub>4</sub>	Pass
Residue on ignition (Ash)	≤ 0.002 %
Phosphate (PO <sub>4</sub> )	≤ 2 ppm
Nitrate (ppm)	≤ 2 ppm
Iron (Fe)	≤ 0.2 ppm
Heavy Metals (as Lead)	≤ 0.5 ppm
Chloride (Cl)	≤ 0.5 ppm
Carbon Dioxide	≤ 0.002 %
Meets ACS Requirements	Current ACS Specification
Recommended Retest Period	-----
2 Years	

Specification: PRD.3.ZQ5.10000010542

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.