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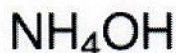
Outside USA: eurtechserv@sial.com

Certificate of Analysis

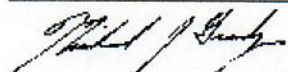
Product Name:

Ammonium hydroxide solution – ACS reagent, 28.0–30.0% NH₃ basis

Product Number: 221228
 Batch Number: SHBL6742
 Brand: SIGALD
 MDL Number: MFCD00066650
 Formula: H5NO
 Formula Weight: 35.05 g/mol
 Quality Release Date: 30 OCT 2019
 Recommended Retest Date: OCT 2021



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Free of Suspended Matter		
Titration with HCl NH ₃	28.0 - 30.0 %	29.1 %
Residue on ignition (Ash)	≤ 0.002 %	< 0.002 %
Chloride (Cl)	≤ 0.5 ppm	< 0.5 ppm
Carbon Dioxide	≤ 0.002 %	< 0.002 %
Iron (Fe)	≤ 0.2 ppm	< 0.2 ppm
Heavy Metals (as Lead)	≤ 0.5 ppm	< 0.5 ppm
Nitrate (ppm)	≤ 2 ppm	< 2 ppm
Phosphate (PO ₄)	≤ 2 ppm	< 2 ppm
Substances reducing MnO ₄ Sulfate	Pass ≤ 2 ppm	Pass < 2 ppm
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period 2 Years	-----	-----



Michael Grady, Manager
 Quality Control
 Sheboygan Falls, WI US

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. 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.