

## Certificate of Analysis

Date of Testing: 2022-12-16 15:42:38  
Date of Next Testing: 2026-12-15 15:42:38  
Product Name: **Ammonia solution**  
CAS Number: 1336-21-6  
Specifications & Purity: ACS, 28.0-30.0% NH3 basis  
Lot #: L2213331  
SKU #: **A112081**  
Analysis: **169021**

Parameter	Limit Values	Result
Phosphate(PO4)	0-2 (ppm)	1.50 ppm
(NO3)Nitrate	0-2 (ppm)	0.76 ppm
Heavy metal (as Pb)	0-0.5 (ppm)	0.01 ppm
Ignition Residue(Ash)	0-0.002 (%)	0.00 %
Ammonia(Titration by HCl)	28-30 (%)	28.83 %
Carbon Dioxide	0-0.002 (%)	0.00 %
Iron(Fe)	0-0.2 (ppm)	0.14 ppm
Sulfate(SO42-)	0-2 (ppm)	0.08 ppm
Chloride (Cl-)	0-0.5 (ppm)	0.06 ppm
Appearance (A112081)	Colorless Liquid	Colorless liquid



John Su  
QA & QC Manager