

## Certificate of Analysis

Date of Testing: 2022-10-14 13:41:34  
Date of Next Testing: 2026-10-13 13:41:34  
Product Name: **Ammonia solution**  
CAS Number: 1336-21-6  
Specifications & Purity: ACS, 28.0-30.0% NH3 basis  
Lot #: J2212116  
SKU #: **A112081**  
Analysis: **143667**

| Parameter                 | Limit Values     | Result           |
|---------------------------|------------------|------------------|
| Phosphate(PO4)            | 0-2 (ppm)        | 0.19 ppm         |
| (NO3)Nitrate              | 0-2 (ppm)        | 0.10 ppm         |
| Heavy metal (as Pb)       | 0-0.5 (ppm)      | 0.02 ppm         |
| Ignition Residue(Ash)     | 0-0.002 (%)      | 0.00 %           |
| Ammonia(Titration by HCl) | 28-30 (%)        | 28.90 %          |
| Carbon Dioxide            | 0-0.002 (%)      | 0.00 %           |
| Iron(Fe)                  | 0-0.2 (ppm)      | 0.12 ppm         |
| Sulfate(SO42-)            | 0-2 (ppm)        | 0.85 ppm         |
| Chloride (Cl-)            | 0-0.5 (ppm)      | 0.20 ppm         |
| Appearance (A112081)      | Colorless Liquid | Colorless liquid |



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QA & QC Manager