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## Product Specification

Product Name:  
Ammonium nitrate - ACS reagent, ≥98%

**Product Number:** 221244  
**CAS Number:** 6484-52-2  
**MDL:** MFCD00011425  
**Formula:** H4N2O3  
**Formula Weight:** 80.04 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystal or Granules
Infrared spectrum	Conforms to Structure
Titration with H2SO4	≥ 98.0 %
Insoluble matter	≤ 0.005 %
Residue on ignition (Ash)	≤ 0.01 %
Chloride (Cl)	< = 5 ppm
Iron (Fe)	< = 2 ppm
Heavy Metals (as Lead)	< = 5 ppm
Nitrites	Pass
pH	4.5 - 6.0
At 25 Degrees Celsius; C = 5% H2O	
Phosphate (PO4)	< = 5 ppm
Sulfate (SO4)	< = 0.002%
Meets ACS Tenth Edition	Current ACS Specification
Recommended Retest Period	-----
2 Years	

Specification: PRD.1.ZQ5.10000003806

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.