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Product Specification

Product Name:
Potassium nitrate – ACS reagent, ≥99.0%

Product Number: 221295
CAS Number: 7757-79-1
MDL: MFCD00011409
Formula: KNO₃
Formula Weight: 101.10 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystals
X-Ray Diffraction	Conforms to Structure
Purity (Titration by NaOH)	≥ 99.0 %
Iodate	≤ 5 ppm
Nitrite	≤ 0.001 %
Calcium (Ca)	≤ 0.005 %
Iron (Fe)	≤ 3 ppm
Heavy Metals	≤ 5 ppm
by ICP-OES	
Magnesium (Mg)	≤ 0.002 %
Sodium (Na)	≤ 0.005 %
Insoluble matter	≤ 0.005 %
Chloride Content	≤ 0.002 %
pH	4.5 - 8.5
@ 25 DEG C (C= 5%, H ₂ O)	
Phosphate	≤ 5 ppm
Sulfate	≤ 0.003 %
Meets ACS Requirements	Current ACS Specification
Recommended Retest Period	-----
3 Years	

Specification: PRD.3.ZQ5.10000017174

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.