



PRODUCT SPECIFICATION SHEET

Potassium Nitrate Powder, USP/ACS/FCC Grade

Test	Specification	Typical Result
Assay (KNO ₃)	99.0 – 100.5 %	99.35 %
Appearance	White crystalline powder	Pass
pH of a 5% solution @ 25°C	4.5 – 8.5	6.09
Insoluble Matter	Max. 0.005 %	0.003 %
Chloride (Cl)	Max. 0.002 %	< 0.002 %
Iodate (IO ₃)	Max. 5 ppm	< 5 ppm
Nitrite (NO ₂)	Max. 0.001 %	< 0.001 %
Phosphate (PO ₄)	Max. 5 ppm	< 5 ppm
Sulfate (SO ₄)	Max. 0.003 %	< 0.003 %
Heavy metals (by ICP-OES)	Max. 5 ppm	< 5 ppm
Iron (Fe)	Max. 3 ppm	< 3 ppm
Calcium (as Ca)	Max. 0.005 %	< 0.005 %
Magnesium (Mg)	Max. 0.002 %	< 0.002 %
Sodium (Na)	Max. 0.005 %	0.001 %
Identification A	Gives the reaction of Potassium	Pass
Identification B	Gives the reaction of Nitrate	Pass
Arsenic (As)	Max. 3 ppm	< 3 ppm
Lead (Pb)	Max. 10 ppm	1.1 ppm
Nitrite	Max. 5 µg/g	< 5 µg/g

Appropriate/legal use of this product is the responsibility of the user