



Product Specification

Product Name: POTASSIUM NITRATE AR

Alternate Name(s)

Description

Transparent colourless or white crystalline powder or crystals; slightly hygroscopic; pungent saline taste.

Properties

Chemical Formula: KNO_3

Molecular Weight: 101.1

Product Code: PA011

CAS No.: 7757-79-1

General Information:

Mixtures with combustible material are readily ignited and may burn fiercely. Bags, though empty, still impregnated with this substance, are liable to self-sustaining combustion.

Quality Specification

Assay: 99.0% min.

Specific Properties and Impurities [Typical levels]:

Melting point	334°C
Solubility in water	360 g/l @ 20°C
pH of 5% solution (25°C)	4.5 - 8.5
Insoluble matter	0.005%
Chloride (Cl)	0.002%
Iodate (IO ₃)	0.0005%
Nitrite (NO ₂)	0.001%
Phosphate (PO ₄)	0.0005%
Sulfate (SO ₄)	0.003%
Heavy Metals (as Pb)	0.0005%
Calcium (Ca)	0.005%
Iron (Fe)	0.0003%
Magnesium (Mg)	0.002%
Sodium (Na)	0.005%

Hazard and Safety Data

UN Group:	III
Class:	5.1
UN Number:	1486
Hazchem code:	1Z
CS MSDS Code:	1CH5K
Poison schedule:	Not Scheduled
Emergency Procedure Guide No.:	31

CONFORMS TO ACS

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