



# Product Specification

**Product Name:** POTASSIUM NITRATE TG with anti-caking agent

Alternate Name(s)

Description

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

Properties

Chemical Formula:  $\text{KNO}_3$

Molecular Weight: 101.1

Product Code: PT011

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:

Specific Properties and Impurities [Typical levels]:

Melting point	337°C
Potassium (as $\text{K}_2\text{O}$ )	45.4% min.
Nitrogen (N)	13.0% min.
Moisture	≤ 0.2%
Insolubles	≤ 0.1%
Arsenic (As)	≤ 0.0001%
Calcium (Ca)	≤ 0.04%
Cadmium (Cd)	≤ 0.000025%
Cobalt (Co)	≤ 0.000025%
Copper (Cu)	≤ 0.0001%
Iron (Fe)	≤ 0.002%
Lead (Pb)	≤ 0.0001%
Magnesium (Mg)	≤ 0.015%
Mercury (Hg)	≤ 0.000025%
Molybdenum (Mo)	≤ 0.0001%
Nickel (Ni)	≤ 0.0001%
Selenium (Se)	≤ 0.0001%
Sulfur (S)	≤ 0.02%
Zinc (Zn)	≤ 0.002%

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

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