

**Potassium nitrate, EssentQ®****Identification**

KNO<sub>3</sub>  
M = 101,11 g/mol  
CAS [7757-79-1]  
EC number: 231-818-8  
Taric code: 2834 21 00

**Synonyms**

Nitric acid potassium salt, Saltpeter

**Applications**

analytical chemistry, laboratory reagent, oxidizing agent, in pyrotechnics, manufacture of glass, in food industry.

**Specifications**

assay (acidimetric).....	min. 98,5 %	heavy metals (as Pb).....	max. 0,002 %
nitrites (NO <sub>2</sub> ).....	max. 0,01 %	calcium (Ca).....	max. 0,005 %
phosphates (as PO <sub>4</sub> ).....	max. 0,01 %	iron (Fe).....	max. 0,001 %
ammonium (NH <sub>4</sub> ).....	max. 0,02 %	sodium (Na).....	max. 0,2 %

**Physical data**

- Appearance: powder, yellowish
- Spec. Density: 2,11 g/cm<sup>3</sup>
- Bulk density: ~ 800 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 320 g/l
- Melting point: 334 °C
- pH(50 g/l H<sub>2</sub>O, 20 °C) 5,5 - 8,0

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

H272: May intensify fire; oxidiser.

**Precautionary Statements:**

- P221: Take any precaution to avoid mixing with combustibles.  
P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.  
P220: Keep / Store away from clothing / combustible materials.  
P280: Wear protective gloves / protective clothing / eye protection / face protection.  
P370+P378: In case of fire: Use ... for extinction.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 5.1 O2 III • UN 1486 • POTASSIUM NITRATE
- IMDG: 5.1 III • UN 1486 • POTASSIUM NITRATE
- IATA/ICAO: 5.1 III • UN 1486 • POTASSIUM NITRATE
- PAX: 516
- CAO: 518
- 10°C - 30°C