

Identification

KNO₃
 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, referred to dried sample).....	99,0 - 101,0 %	ammonium (NH ₄).....	max. 0,001 %
assay (acidimetric).....	min 99 %	calcium (Ca).....	max. 0,001 %
appearance of solution.....	clear and colourless	copper (Cu).....	max. 0,0001 %
insoluble in water.....	max. 0,005 %	heavy metals.....	max. 0,0005 %
acidity or alkalinity.....	passes test	iron (Fe).....	max. 0,0003 %
pH (5 %, H ₂ O).....	5 - 8	lead (Pb).....	max. 0,0001 %
chlorides (Cl).....	max. 0,001 %	magnesium (Mg).....	max. 0,002 %
iodates (IO ₃).....	max. 0,0005 %	sodium (Na).....	max. 0,005 %
nitrites (NO ₂).....	max. 0,001 %	reducing substances.....	passes test
phosphates (as PO ₄).....	max. 0,0005 %	identity (IR-spectrum).....	passes test
sulfates (SO ₄).....	max. 0,003 %		

Packaging

Packaging Code

- 500 g  PO02870500
- 1 kg  PO02871000
- 5 kg  PO0287005P

Physical data

- Appearance: crystals, white
- Spec. Density: 2,11 g/cm³
- Bulk density: ~ 800 kg/m³
- Solub. in water: (20 °C): 320 g/l
- Melting point: 334 °C
- pH(50 g/l H₂O, 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+P378a: In case of fire: Use for extinction: CO₂, powder or water spray.
- P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 3750 mg/kg
- WGK: 1
- Poison class CH (Swiss): 4

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