PO0287

Potassium nitrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

Identification

KNO_3
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 %
assay (acidimetric)	min 99 %
appearance of solution	clear and colourless
insoluble in water	max. 0,005 %
acidity or alkalinity	passes test
pH (5 %, H2O)	5 - 8
chlorides (Cl)	max. 0,001 %
iodates (IO3)	max. 0,0005 %
nitrites (NO2)	max. 0,001 %
phosphates (as PO4)	max. 0,0005 %
sulfates (SO_4)	max. 0,003 %
ammonium (NH4)	max. 0,001 %
calcium (Ca)	max. 0,001 %
copper (Cu)	max. 0,0001 %
heavy metals	max. 0,0005 %
iron (Fe)	max. 0,0003 %
lead (Pb)	max. 0,0001 %
magnesium (Mg)	max. 0,002 %
sodium (Na)	max. 0,005 %
reducible substances	passes test
identity (IR-spectrum)	passes test

Physical data

- Appearance: crystals, white
- Spec. Density: 2,11 g/cm^3
- Bulk density: ~ 800 kg/m^3
- Solub. in water: (20 ºC): 320 g/l
- Melting point: 334 ºC
- pH(50 g/l H_2O, 20 ºC) 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