

Identification

NaNO₃
M = 84,99 g/mol
CAS [7631-99-4]
EC number: 231-554-3
Taric code: 3102 50 00

Synonyms

Nitric acid sodium salt

Applications

analytical chemistry, laboratory reagent, oxidizing agent, in food industry (E 251), preservative agent.

Specifications

assay (acidimetric).....	min. 99,5 %	phosphates (as PO ₄).....	max. 5 ppm
identity (IR-spectrum).....	passes test	sulfates (SO ₄).....	max. 0,003 %
insoluble in water.....	max. 0,005 %	ammonium (NH ₄).....	max. 0,002 %
pH (5 %, H ₂ O, 25 °C).....	5,5 - 8,0	calcium (Ca).....	max. 0,002 %
chlorides (Cl).....	max. 5 ppm	heavy metals.....	max. 5 ppm
iodates (IO ₃).....	max. 5 ppm	iron (Fe).....	max. 3 ppm
nitrites (NO ₂).....	max. 0,001 %	magnesium (Mg).....	max. 0,002 %
		potassium (K).....	max. 0,01 %

Physical data

- Appearance: crystals, white or almost white
- Spec. Density: 2,26 g/cm³
- Bulk density: ~ 1200 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: 308 °C
- pH(50 g/l H₂O, 20 °C) 5,5 - 8,3

Safety - GHS

Signal Word: Danger

Hazard Statements:

H272: May intensify fire; oxidiser.
H319: Causes serious eye irritation.



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.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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 1498 • SODIUM NITRATE
- IMDG: 5.1 III • UN 1498 • SODIUM NITRATE
- IATA/ICAO: 5.1 III • UN 1498 • SODIUM NITRATE
- PAX: 559
- CAO: 563
- 10°C - 30°C