

Identification

NaClO₄·H₂O
M = 140,46 g/mol
CAS [7791-07-3]
EC number: 231-511-9
Taric code: 2829 90 10

Applications

analytical chemistry, laboratory reagent, oxidizing agent, precipitant for: potassium.

Specifications

assay (argentometric)	min. 99 %	heavy metals (as Pb).....	max. 0,001 %
pH (5 %, H ₂ O).....	4,5 - 7	calcium (Ca).....	max. 0,005 %
total nitrogen (as N).....	max. 0,001 %	iron (Fe).....	max. 5 ppm
chlorides and chlorates (as Cl).....	max. 0,005 %	potassium (K).....	max. 0,01 %
sulfates (SO ₄).....	max. 0,005 %		

Physical data

- Appearance: crystals, white
- Spec. Density: ~ 2,02 g/cm³
- Bulk density: 900 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: 130 °C
- pH(50 g/l H₂O, 25 °C) ~ 6,0

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H271: May cause fire or explosion; strong oxidiser.
H302: Harmful if swallowed.

**Precautionary Statements:**

- P221: Take any precaution to avoid mixing with combustibles.
P283: Wear fire / flame resistant / retardant clothing.
P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P306+P360: IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P371+P380+P375: In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 2100 mg/kg (anhydrous substance)
- WGK: 1
- Poison class CH (Swiss): 3

Transport/storage

- ADR: 5.1 O2 II • UN 1502 • SODIUM PERCHLORATE
- IMDG: 5.1 II • UN 1502 • SODIUM PERCHLORATE
- IATA/ICAO: 5.1 II • UN 1502 • SODIUM PERCHLORATE
- PAX: 508
- CAO: 511