

Identification

KClO3
 M = 122,55 g/mol
 CAS [3811-04-9]
 EC number: 223-289-7
 Taric code: 2829 19 00

Synonyms

Chloric acid potassium salt

Applications

analytical chemistry, laboratory reagent, in explosive compositions, manufacture of dyes and painting (in the textile industry), antiseptic.

Specifications

assay (argentometric).....	min. 99 %	total nitrogen (as N).....	max. 0,0005 %
identity.....	passes test	arsenic (As).....	max. 0,00005 %
insoluble in water.....	max. 0,005 %	calcium (Ca).....	max. 0,002 %
chlorides (Cl).....	max. 0,001 %	heavy metals (as Pb).....	max. 5 ppm
bromates (BrO ₃).....	max. 0,015 %	iron (Fe).....	max. 3 ppm
sulfates (SO ₄).....	max. 0,002 %	magnesium (Mg).....	max. 0,001 %
		sodium (Na).....	max. 0,01 %

Physical data

- Appearance: crystals, white
- Spec. Density: 2,32 g/cm³
- Bulk density: ~ 1200 - 1400 kg/m³
- Solub. in water: (20 °C): 73 g/l
- Melting point: 356 °C
- Boiling point: 400 °C (decomposes)
- pH(73 g/l H₂O, 20 °C) ~ 5,6

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H271: May cause fire or explosion; strong oxidiser.
 H302: Harmful if swallowed.
 H332: Harmful if inhaled.
 H411: Toxic to aquatic life with long lasting effects.


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.
 P370+P378: In case of fire: Use ... for extinction.
 P306+P360: IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 5.1 O2 II • UN 1485 • POTASSIUM CHLORATE
- IMDG: 5.1 II • UN 1485 • POTASSIUM CHLORATE
- IATA/ICAO: 5.1 II • UN 1485 • POTASSIUM CHLORATE
- PAX: 509
- CAO: 512
- 10°C - 30°C