

Potassium chlorate, EssentQ®**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 (oxidimetric).....	99 - 101 %	arsenic (As).....	max. 1 ppm
appearance of solution.....	passes test	calcium (Ca).....	max. 0,01 %
insoluble in water.....	passes test	copper (Cu).....	max. 0,002 %
pH (5 %, H ₂ O).....	5,0 - 9,0	heavy metals (as Pb).....	max. 0,002 %
chlorides (Cl).....	max. 0,005 %	iron (Fe).....	max. 0,002 %
sulfates (SO ₄).....	max. 0,005 %	lead (Pb).....	max. 0,002 %
nitrogen compounds (as N).....	max. 0,005 %	magnesium (Mg).....	max. 0,01 %
		nickel (Ni).....	max. 0,002 %

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