

Potassium peroxodisulfate

Identification

$K_2S_2O_8$
M = 270,33 g/mol
CAS [7727-21-1]
EC number: 231-781-8
Taric code: 2833 40 00

Synonyms

Potassium persulfate, Peroxydisulfuric acid dipotassium salt

Specifications

assay (iodometric).....min. 98 %	iron (Fe)..... max. 0,002 %
insoluble in water..... max. 0,02 %	lead (Pb)..... max. 0,005 %
chlorides (Cl)..... max. 0,005 %	manganese (Mn)..... max. 5 ppm
copper (Cu)..... max. 0,005 %	nickel (Ni)..... max. 0,005 %
heavy metals (as Pb)..... max. 0,005 %	total nitrogen (as N)..... max. 0,001 %

Physical data

- Spec. Density: 2,48 g/cm³
- Bulk density: ~ 780 kg/m³
- Solub. in water: (20 °C): 47 g/l
- Melting point: 100 °C (decomposes)
- pH(50 g/l H₂O, 20 °C) ~ 4 - 5

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H272: May intensify fire; oxidiser.
H302: Harmful if swallowed.
H335: May cause respiratory irritation.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.



Precautionary Statements:

- P221: Take any precaution to avoid mixing with combustibles.
P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
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.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 5.1 O2 III • UN 1492 • POTASSIUM PERSULPHATE
- IMDG: 5.1 III • UN 1492 • POTASSIUM PERSULPHATE
- IATA/ICAO: 5.1 III • UN 1492 • POTASSIUM PERSULPHATE
- PAX: 516
- CAO: 518
- 10°C - 30°C