

Identification

(NH₄)₂S₂O₈

M = 228,20 g/mol

CAS [7727-54-0]

EC number: 231-786-5

Taric code: 2833 40 00

Synonyms

Ammonium persulfate, Peroxodisulfuric acid diammonium salt

Applications

analytical chemistry, synthesis of polymers.

Specifications

assay (iodometric).....min. 98 %	iron (Fe).....max. 0,001 %
insoluble in water.....max. 0,02 %	lead (Pb).....max. 0,001 %
chlorides and chlorates (as Cl).....max. 0,005 %	manganese (Mn).....max. 2 ppm
copper (Cu).....max. 0,005 %	nickel (Ni).....max. 0,005 %
heavy metals (as Pb).....max. 0,003 %	residue on ignition (as SO ₄).....max. 0,1 %

Physical data

- Appearance: crystals, bright bright white or yellowish
- Spec. Density: 0,98 - 1,15 g/cm³
- Bulk density: ~ 900 kg/m³
- Solub. in water: (20 °C): 620 g/l
- Melting point: 120 °C (decomposes)
- pH(100 g/l H₂O, 20 °C) 3,2

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 1444 • AMMONIUM PERSULPHATE
- IMDG: 5.1 III • UN 1444 • AMMONIUM PERSULPHATE
- IATA/ICAO: 5.1 III • UN 1444 • AMMONIUM PERSULPHATE
- PAX: 516
- CAO: 518
- 10°C - 30°C