

**Identification** $(\text{NH}_4)_2\text{S}_2\text{O}_8$ 

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 <sub>4</sub> ).....	max. 0,1 %

**Physical data**

- Appearance: crystals, bright bright white or yellowish
- Spec. Density: 0,98 - 1,15 g/cm<sup>3</sup>
- Bulk density: ~ 900 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 620 g/l
- Melting point: 120 °C (decomposes)
- pH(100 g/l H<sub>2</sub>O, 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.
- P285: In case of inadequate ventilation wear respiratory protection.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405: Store locked up.
- P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Toxicological data**

- LD 50 (oral, rat): 495 mg/kg
- WGK: 1
- Poison class CH (Swiss): 4

**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
- Store below 25°C