

**Identification** $(\text{NH}_4)_2\text{SO}_4$ 

M = 132,14 g/mol

CAS [7783-20-2]

EC number: 231-984-1

Taric code: 3102 21 00

**Synonyms**

Sulfuric acid diammonium salt

**Applications**

analytical chemistry, manufacture of alums.

**Specifications**

assay (acidimetric).....	min. 99,0 %	calcium (Ca).....	max. 0,001 %
identity (IR-spectrum).....	passes test	copper (Cu).....	max. 2 ppm
insoluble matter.....	max. 0,005 %	heavy metals.....	max. 5 ppm
pH (5 %, H <sub>2</sub> O).....	5,0 - 6,0	iron (Fe).....	max. 2 ppm
chlorides (Cl).....	max. 3 ppm	lead (Pb).....	max. 2 ppm
nitrates (NO <sub>3</sub> ).....	max. 0,001 %	magnesium (Mg).....	max. 5 ppm
phosphates (as PO <sub>4</sub> ).....	max. 5 ppm	zinc (Zn).....	max. 1 ppm
arsenic (As).....	max. 0,2 ppm	residue on ignition.....	max. 0,005 %
cadmium (Cd).....	max. 1 ppm	loss on drying (105 °C).....	max. 0,1 %

**Physical data**

- Appearance: crystals, colourless
- Spec. Density: 1,77 g/cm<sup>3</sup>
- Bulk density: ~ 850 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 754 g/l
- Melting point: 280 °C (decomposes)
- pH(50 g/l H<sub>2</sub>O, 20 °C) ~ 5 - 6

**Safety - GHS**

Signal Word: Warning

**Hazard Statements:**

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.

**Precautionary Statements:**

- P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
- P280: Wear protective gloves / protective clothing / eye protection / face 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.
- P321: Specific treatment (see on this label).
- P405: Store locked up.
- P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- 10°C - 30°C