

**Ammonium iron(II) sulfate hexahydrate, for analysis, ExpertQ®, ACS,
ISO, Reag. Ph Eur****Identification**

$(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$
M = 392,14 g/mol
CAS [7783-85-9]
EC number: 233-151-8
Taric code: 2842 90 80

Synonyms

Iron(II) ammonium sulfate, Ferrous ammonium sulfate, Mohr's salt

Applications

analytical chemistry, synthesis of polymers, photography.

Specifications

assay (permanganometric).....	99,0 - 101,5 %	iron (III) (Fe (III)).....	max. 0,01 %
insoluble in diluted H ₂ SO ₄	max. 0,01 %	lead (Pb).....	max. 0,001 %
pH (5 %, H ₂ O).....	3,0 - 5,0	magnesium (Mg).....	max. 0,002 %
chlorides (Cl).....	max. 0,001 %	manganese (Mn).....	max. 0,01 %
phosphates (as PO ₄).....	max. 0,002 %	potassium (K).....	max. 0,002 %
calcium (Ca).....	max. 0,002 %	sodium (Na).....	max. 0,01 %
copper (Cu).....	max. 0,002 %	zinc (Zn).....	max. 0,003 %

Physical data

- Appearance: crystals, green-bluish
- Spec. Density: 1,86 g/cm³
- Bulk density: ~ 900 kg/m³
- Solub. in water: (20 °C): 269 g/l
- Melting point: 100 °C
- pH(50 g/l H₂O, 20 °C) 3 - 5

Transport/storage

- 10°C - 30°C