

Ammonium iron(III) sulfate dodecahydrate, for analysis, ExpertQ®, ACS, ISO
Identification

$\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
 M = 482,19 g/mol
 CAS [7783-83-7]
 EC number: 233-382-4
 Taric code: 2833 30 00

Synonyms

Iron(III) ammonium sulfate, Alum iron, Ferric ammonium alum, Iron alum

Applications

analytical chemistry, laboratory reagent.

Specifications

assay (iodometric).....	99,0 - 102,0 %	copper (Cu).....	max. 0,002 %
identity (IR-spectrum).....	passes test	iron (II) (Fe (II)).....	max. 0,001 %
insoluble in water.....	max. 0,005 %	lead (Pb).....	max. 10 ppm
insoluble in HCl	max. 0,01 %	magnesium (Mg).....	max. 0,001 %
chlorides (Cl).....	max. 5 ppm	manganese (Mn).....	max. 0,005 %
nitrites (NO ₂).....	max. 0,01 %	potassium (K).....	max. 0,005 %
calcium (Ca).....	max. 0,01 %	sodium (Na).....	max. 0,01 %
		zinc (Zn).....	max. 0,003 %

Physical data

- Appearance: humid crystals, light violet
- Bulk density: ~ 750 kg/m³
- Solub. in water: (25 °C): 1240 g/l
- Melting point: 39 - 41 °C
- pH(100 g/l H₂O, 20 °C) ~ 1,8

Transport/storage

- 2°C - 15°C