

**Ammonium iron(III) sulfate dodecahydrate, EssentQ®****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).....	97,0 - 102,0 %	copper (Cu).....	max. 0,005 %
identity (IR-spectrum).....	passes test	iron (II) (Fe (II)).....	max. 0,002 %
insoluble in water.....	max. 0,01 %	lead (Pb).....	max. 0,002 %
chlorides (Cl).....	max. 0,005 %	magnesium (Mg).....	max. 0,03 %
calcium (Ca).....	max. 0,03 %	zinc (Zn).....	max. 0,005 %

**Physical data**

- Appearance: humid crystals, light crystals
- Bulk density: ~ 750 kg/m<sup>3</sup>
- Solub. in water: (25 °C): 1240 g/l
- Melting point: 39 - 41 °C
- pH(100 g/l H<sub>2</sub>O, 20 °C) ~ 1,8

**Transport/storage**

- 2°C - 15°C