



## Product Specification

Product Name: **Ammonium Ferric Sulfate 12-hydrate ACS**  
CAS No: 7783-83-7  
Molecular Formula:  $\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$   
Molecular Weight: 482.19 g/mol  
HS Code: 2833 30 00  
Odour: Odourless  
Appearance: Pale violet solid irregular lumps and/or white fine crystals  
Bulk density:  $\sim 750 \text{ kg/m}^3$   
Melting Point:  $38^\circ$  to  $41^\circ \text{ C}$   
Storage: Store at temp below  $30^\circ \text{C}$ . Surface of material turns yellow at  $35^\circ \text{C}$   
Starts melting at  $38^\circ \text{C}$

<u>Sr No</u>	<u>Test Parameter</u>	<u>Value</u>
1.	Test Solution (5g in 50ml water)	Solution is bright clear and yellowish-brown
2.	Assay, as $\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	98.5 – 102.0% min.
3.	Insoluble content	0.01% max.
4.	Chloride, as Cl	0.001% max.
5.	Nitrate, as $\text{NO}_3$	0.01% max.
6.	Calcium, as Ca	0.01% max.
7.	Copper, as Cu	0.003% max.
8.	Ferrous ion, as $\text{Fe}^{+2}$	0.001% max.
9.	Magnesium, as Mg	0.005% max.
10.	Potassium, as K	0.005% max
11.	Sodium, as Na	0.02% max.
12.	Zinc, as Zn	0.003% max.