



## Product Specification

Product Name:	<b>Ferrous Sulfate 7-hydrate AR</b>
Product Name:	Iron (II) Sulfate 7-hydrate
CAS No:	7782-63-0
Molecular Formula:	FeSO <sub>4</sub> .7H <sub>2</sub> O
Molecular Weight:	278.02 g/mol
HS Code:	2833 29 50
Odour:	Odourless
Appearance:	Bluish-Green crystals
Density:	1.89 g/cm <sup>3</sup> @20°C
Melting Point:	>60° C (release of water of crystallization)
Storage:	Store at temp below 40°C

<u>Sr No</u>	<u>Test Parameter</u>	<u>Value</u>
1.	Test Solution (5g in 50ml water + 1ml sulphuric acid)	Solution is clear and bluish-green
2.	pH of 5% solution	3.0 to 4.0
3.	Assay, as FeSO <sub>4</sub> .7H <sub>2</sub> O	99.0% min.
4.	Chloride, as Cl	0.0005% max.
5.	Phosphate, as PO <sub>4</sub>	0.001% max.
6.	Arsenic, as As	0.00004% max.
7.	Calcium, as Ca	0.005% max.
8.	Copper, as Cu	0.001% max.
9.	Ferric ion, as Fe <sup>+3</sup>	0.05% max. (Due to inherent oxidation, ferric ion (Fe <sup>+3</sup> ) content may increase on storage)
10.	Heavy Metals, as Pb	0.001% max.
11.	Magnesium, as Mg	0.005% max.
12.	Manganese, as Mn	0.05% max.
13.	Nitrogen, as N	0.001% max.
14.	Potassium, as K	0.002% max.
15.	Sodium, as Na	0.02% max.
16.	Zinc, as Zn	0.01% max.