

SPECIFICATION

Product Name: Ferrous Sulphate Monohydrate IP Grade
Chemical Formula: $\text{FeSO}_4 \cdot \text{H}_2\text{O}$
CAS Number: 17375-41-6
Molecular Weight: 169.93 g/mol
Appearance: White to off white buff colour
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification	-	Complies	It gives reaction A of ferrous salts and the reactions of sulphates
Copper	PPM	Complies	NMT 50 PPM
Lead	PPM	Complies	NMT 50 PPM
Zinc	PPM	Complies	NMT 50 PPM
Manganese	%	Complies	NMT 0.1%
Arsenic	PPM	Complies	NMT 3 PPM
Basic Sulphate	-	Complies	2.0 g dissolve slowly in a mixture of 7.5 ml of freshly boiled and cooled water and 0.5 ml of 0.5 M Sulfuric acid, producing a solution that is not more than faintly turbid
Ferric ions	%	0.32%	NMT 0.5%
Assay (on dry basis)	%	86.74%	Not less than 86.0% and not more than 90.0%

Physical Properties

- Solubility: Freely soluble in water. Insoluble in ethanol. Insoluble in methanol. Insoluble in acetone. Insoluble in ether. Insoluble in chloroform.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, light-resistant container in a cool, dry, and well-ventilated place, protected from moisture, air, heat, and contamination.

Applications

- Use: Widely used in source of elemental iron for the prevention and treatment of iron deficiency and iron deficiency anemia. It is also used in nutraceutical formulations as an iron fortificant.
- Dosage: Depends on Patient's age, Body weight, Severity of iron deficiency, Hemoglobin and ferritin levels, Pregnancy or lactation status, Clinical response and physician's recommendation.

Packaging

- Standard Packing: 25 kgs pp bag with inner liner or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.