

SPECIFICATION

Product Name: Ferrous Gluconate USP Grade
Chemical Formula: C ₁₂ H ₂₂ FeO ₁₄
CAS Number: 299-29-6
Molecular Weight: 446.14 g/mol
Appearance: Greenish yellow fine powder.
Odor: Odorless.

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification			
Test - A	-	Complies	To comply with the test
Test - B	-	Complies	To comply with the test
Loss on drying	%	8.7%	6.5% to 10.0%
Chloride	PPM	Complies	NMT 700 PPM
Sulphate	PPM	Complies	NMT 1000 PPM
Arsenic	PPM	Complies	NMT 3 PPM
Reducing sugar	-	Complies	Limit to pass the test
Mercury	PPM	Complies	NMT 3 PPM
Ferric iron	%	0.35%	NMT 2%
Assay	%	98.22%	97% - 102% on dry basis.
Lead	PPM	Complies	NMT 10 PPM
Residual solvents	-	Complies	Meets the requirements
Oxalic acid	-	Complies	As per USP

Physical Properties

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



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Shelf Life & Storage

- Shelf Life: 5 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, humidity, heat, and direct sunlight. Keep the container tightly sealed when not in use to prevent oxidation and maintain product quality.

Applications

- Use: Widely used in pharmaceutical, nutraceutical, food, and dietary supplement applications to prevent and treat iron deficiency and support healthy hemoglobin production.
- Dosage: Depends on Desired elemental iron intake, Age and gender, Nutritional status, Severity of iron deficiency, Product formulation, Regulatory requirements.

Packaging

- Standard Packing: 25 kg HDPE bags 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.

