

## SPECIFICATION

<b>Product Name:</b> Ferrous Gluconate BP Grade
<b>Chemical Formula:</b> C <sub>12</sub> H <sub>22</sub> FeO <sub>14</sub>
<b>CAS Number:</b> 299-29-6
<b>Molecular Weight:</b> 446.14 g/mol
<b>Appearance:</b> Greenish yellow fine powder.
<b>Odor:</b> 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
PH	-	4.34	4.0 to 5.5
Loss on drying	%	8.8%	7% to 10.5%
Chloride	PPM	Complies	NMT 600 PPM
Sulphate	PPM	Complies	NMT 500 PPM
Arsenic	PPM	Complies	NMT 3 PPM
Reducing sugar	-	Complies	Limit to pass the test
Microbial Contamination	Cfu/gm	Complies	NMT 103 micro organisms per gm
Ferric iron	%	0.36%	NMT 1%
Assay	%	12.17%	11.8% - 12.5% on dry basis.
Lead	PPM	Complies	NMT 10 PPM
Residual solvents	-	Complies	Meets the requirements

### Physical Properties

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



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**CIN:** U24230GJ2011PTC064654

### **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.

