

SPECIFICATION

Product Name: Ferrous Ascorbate IP Grade
Chemical Formula: C ₁₂ H ₁₄ FeO ₁₂
CAS Number: 24808-52-4
Molecular Weight: 406.08 g/mol
Appearance: Fine dark violet coloured dried powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification (A)	-	Complies	(A) The solution gives orange-red colour.
(B)	-	Complies	(B) It gives reaction (A) of ferrous salts.
Appearance of solution	-	Complies	1.0%w/v solution in 1M HCL acid is clear & not more intensely coloured than reference solution BYS5.
pH (1%w/v solution)	-	6.24	5.5 to 7.0
Sulphated ash	%	23.92%	19.00% to 25.00%
Loss on drying	%	4.82%	NMT 10.0% determined on 1.0 gm by drying in an oven at 105°
Ferrous content (on dried basis)	%	15.06%	13.5% to 15.5%
Ascorbic acid content (on dried basis)	%	80.42%	78.00% to 87.00%
Bulk density	-	0.666(Tapped) 0.500(Un Tapped)	0.600 to 0.800 (Tapped) 0.450 to 0.550 (Un Tapped)

Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Insoluble in acetone. Soluble in dilute mineral acids.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry place at 15–25°C. Protect from light, heat, and moisture. Keep the container tightly closed in the original, properly labeled container and store in a well-ventilated area to maintain product stability.

Applications

- Use: Widely used as an iron supplement to prevent and treat iron deficiency and iron deficiency anemia. It supports the formation of hemoglobin and red blood cells, helps improve oxygen transport in the body, and is widely used in pharmaceutical, nutraceutical, and dietary supplement formulations.
- Dosage: Depends on the intended formulation, elemental iron content, patient age, and clinical condition. It should be used according to product formulation requirements or as directed by a qualified healthcare professional.

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.