

SPECIFICATION

Product Name: Sodium Iron EDTA 12% Food Grade
Chemical Formula: $C_{10}H_{12}FeN_2NaO_8$
CAS Number: 15708-41-5
Molecular Weight: 421.09 g/mol
Appearance: Light yellow powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specifications Min./Max.
Solubility	%	0.078%	NMT 0.1%
pH (1% Solution)	-	4.55	3.5 – 5.5
Ferric content	%	13.11%	Min 13%
EDTA Content (trihydrate basis)	%	68.65%	65.5 – 70.5 %
Arsenic	PPM	1.8 PPM	Max. 3 PPM
Lead	PPM	7.5 PPM	Max. 10 PPM

Physical Properties

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

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, moisture-resistant container in a cool, dry, and well-ventilated place, protected from moisture, heat, direct sunlight, and contamination.

Applications

- Use: Widely used as an iron fortification ingredient to improve the iron content of foods and dietary supplements. It is especially valuable in cereal-based products because it provides highly bioavailable iron even in the presence of compounds that inhibit iron absorption.

- Dosage: Depends on Target elemental iron level, Product formulation, Age group, Regulatory limits, National food fortification standards.

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.