

SPECIFICATION

Product Name: Sodium Citrate Dihydrate Food Grade
Chemical Formula: $\text{Na}_3\text{C}_6\text{H}_5\text{O}_7 \cdot 2\text{H}_2\text{O}$
CAS Number: 6132-04-3
Molecular Weight: 294.10 g/mol
Appearance: White powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specifications Min./Max.
Identification	-	Passes	10% w/v solution gives reactions of sodium & Citrate
Appearance solution	-	Passes	Clear and colourless
Acidity or Alkalinity	-	Passes	As per I.H.
pH	-	Passes	7.5 - 9
Arsenic	PPM	Passes	NMT 2 PPM
Heavy Metals	PPM	Passes	NMT 10 PPM
Chloride	PPM	Passes	NMT 100 PPM
Oxalate	PPM	Passes	NMT 300 PPM
Sulphate	PPM	Passes	NMT 150 PPM
Tartrate	-	Passes	As per I.H.
Readily Carbonisable Substances	-	Passes	As per I.H.
Water	%	12.33%	11.0% to 13.0%
Assay (On Anhydrous Basis)	%	99.58%	99.0% to 101.0%

Physical Properties

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

Shelf Life & Storage

- Shelf Life: 5 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 in the food, beverage, nutraceutical, and pharmaceutical industries. It helps control pH, improve product stability, and enhance texture and flavor.
- Dosage: Depends on Desired pH, Buffering capacity, Product formulation, Processing conditions, Regulatory requirements, Sensory characteristics.

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.