

SPECIFICATION

Product Name: Sodium Citrate IP Grade
Chemical Formula: $\text{Na}_3\text{C}_6\text{H}_5\text{O}_7$
CAS Number: 68-04-2
Molecular Weight: 294.10 g/mol
Appearance: White crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specifications Min./Max.
Identification (A) & (B)	-	Complies	As per IP
Appearance of solution	-	Solution A is clear and colourless	As per IP
Acidity or Alkalinity	-	0.08 ml of 0.05M H_2SO_4	NMT 0.5 ml of 0.05 M H_2SO_4 or NMT 0.5 ml of 0.1 M NaOH
Arsenic	PPM	<2 PPM	NMT 2 PPM
Heavy Metals	PPM	<10 PPM	NMT 10 PPM
Chloride	PPM	<100 PPM	NMT 100 PPM
Oxalate	PPM	<300 PPM	NMT 300 PPM
Sulfates	PPM	<150 PPM	NMT 150 PPM
Tartrates	-	Complies	As per IP
Readily Carbonisable Substances	-	Complies	As per IP
Water	%	12.15%	11.0% to 13.0%
Assay (on anhydrous basis)	%	99.68%	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: 4 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 buffering agent, alkalizing agent, anticoagulant, pH regulator, and chelating agent in pharmaceutical, nutraceutical, food, and laboratory applications.
- Dosage: Depends on Patient's age, Medical condition, Urinary pH, Product formulation, Healthcare professional's recommendation.

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.