

SPECIFICATION

Product Name: Di Sodium Phosphate Anhydrous Food Grade
Chemical Formula: Na_2HPO_4
CAS Number: 7558-79-4
Molecular Weight: 141.96 g/mol
Appearance: White crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification A) Reaction of phosphate B) Reaction of sodium	- -	Complies Complies	A) Meets the requirement B) Meets the requirement
Solution (10% aqueous)	-	Solution is clear and colourless	Solution should be clear and colourless
Heavy metals (as pb)	%	NMT 0.0001%	Max. 0.0001%
Fluoride	%	NMT 0.005%	Max. 0.005%
Arsenic	%	NMT 0.0001%	Max. 0.0001%
Cadmium	%	NMT 0.00001%	Max. 0.00001%
Aluminium	%	NMT 0.001%	Max. 0.001%
Pyrophosphate	%	Complies	Max. 2.0%
Chlorate	%	NMT 0.0001%	Max. 0.0001%
Loss on drying (at 120°C)	%	0.49%	Max. 5.0%
Assay (on dry basis)	%	99.66%	NLT 98.0% of Na_2HPO_4

Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Insoluble in acetone.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Keep the container tightly closed to protect from moisture and contamination. Store in the original, properly labeled container away from strong acids, excessive heat, and direct sunlight to maintain product quality and stability.

Applications

- Use: Widely used as a buffering agent, pH regulator, emulsifier, stabilizer, sequestrant, and source of phosphate in food, beverage, pharmaceutical, and nutraceutical formulations. It helps maintain pH, improve texture, enhance protein stability, prevent mineral precipitation, and improve product shelf life.
- Dosage: Depends on the intended food application, desired functional effect, and product formulation.

Packaging

- Standard Packing: 25 Kgs woven 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.