

SPECIFICATION

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

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification (A) Reaction of sodium (B) Reaction of phosphate	- -	Complies Complies	A. Gives reaction of sodium B. Gives reaction of phosphates
Insoluble substances	%	0.09%	NMT 0.4%
Arsenic	PPM	Complies	NMT 16 PPM
Chloride	%	Complies	NMT 0.06%
Sulphates	%	Complies	NMT 0.2%
Loss on drying (at 130°C)	%	0.05%	NMT 5.0%
Assay (On dry basis)	%	99.41%	98.0% - 100.5% of Na_2HPO_4
Sieve #40	%	Complies	NMT 10%
Sieve #100	%	Complies	NMT 50%
Sieve #230	%	Complies	NMT 20%
Microbiological Test			
Aerobic plate count	cfu/g	Complies	NMT 1000cfu/g

Yeast & Molds count	cfu/g	Complies	NMT 100cfu/g
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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. Protect from moisture, excessive humidity, and contamination. Keep the container tightly closed in the original, properly labeled container. Store away from strong acids and incompatible materials, and protect from direct sunlight and excessive heat to maintain product quality and stability.

Applications

- Use: Widely used as a buffering agent, pH adjuster, emulsifier, stabilizer, sequestrant, and source of phosphate in pharmaceutical, nutraceutical, laboratory, and food formulations. It helps maintain pH, improve formulation stability, prevent precipitation of metal ions, and enhance product performance. It is commonly incorporated into tablets, capsules, oral solutions, powders, buffer solutions, injectable formulations (where appropriate), dietary supplements, and laboratory reagents in accordance with USP standards.
- Dosage: Depends on the intended therapeutic use, patient age, clinical condition, and product formulation. It should be used according to product specifications or as directed by a qualified healthcare professional.

Packaging

- Standard Packing: 50 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.