

SPECIFICATION

Product Name: Mono Sodium Phosphate Anhydrous USP Grade
Chemical Formula: NaH_2PO_4
CAS Number: 7558-80-7
Molecular Weight: 119.98 g/mol
Appearance: White crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification A. Reaction B. Reaction	- - -	Complies Complies	A. It gives reaction of phosphates. B. It gives reaction of sodium salts.
pH	-	4.38	4.1 – 4.5
Insoluble substances	%	Complies	NMT 0.2%
Chloride	%	Complies	NMT 0.014%
Aluminium, Calcium and related elements.	-	Complies	Not became turbid when rendered slightly alkaline to litmus paper with 6N ammonium hydroxide.
Arsenic	PPM	Complies	NMT 8 PPM
Water determination	%	0.16%	NMT 2.0%
Assay	%	99.96%	98.0% - 103.0% of NaH_2PO_4

Physical Properties

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

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. Keep the container tightly closed to protect from moisture. Store away from excessive heat and humidity in the original, properly labeled container.

Applications

- Use: Widely used as a buffering agent, pH adjuster, and electrolyte source in pharmaceutical formulations. It is also used in food processing, laboratory reagents, and nutraceutical products to maintain pH stability and improve formulation performance.

- Dosage: Depends on its intended formulation and application. It should be used according to product formulation requirements, applicable pharmacopeial and regulatory standards, or as directed by a qualified healthcare professional.

Packaging

- Standard Packing: 50 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.