

## SPECIFICATION

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| <b>Product Name:</b> Disodium Hydrogen Phosphate Anhydrous BP Grade |
| <b>Chemical Formula:</b> Na <sub>2</sub> HPO <sub>4</sub>           |
| <b>CAS Number:</b> 7558-79-4                                        |
| <b>Molecular Weight:</b> 141.96 g/mol                               |
| <b>Appearance:</b> White or almost white powder                     |
| <b>Odor:</b> Odorless                                               |

## Chemical Composition

| Parameter                 | Unit | Typical Value | Specification (Min./Max.)                             |
|---------------------------|------|---------------|-------------------------------------------------------|
| Identification            |      |               |                                                       |
| A. Reaction               | -    | Complies      | A. 5% solution in slightly alkaline.                  |
| B. LOD                    | -    | Complies      | B. Complies with LOD test.                            |
| C. Reaction of phosphates | -    | Complies      | C. Solution gives reaction of phosphates.             |
| D. Reaction of sodium     | -    | Complies      | D. Solution gives reaction of sodium.                 |
| Chloride                  | PPM  | Complies      | NMT 200 PPM                                           |
| Sulphates                 | PPM  | Complies      | NMT 500 PPM                                           |
| Iron                      | PPM  | Complies      | NMT 20 PPM                                            |
| Reducing substances       | -    | Complies      | The color of the solution is not completely discharge |
| Mono sodium phosphate     | %    | 1.54%         | NMT 2.5%                                              |
| Loss on drying (at 105°C) | %    | 0.15%         | NMT 1.0%                                              |
| Assay (on dry basis)      | %    | 99.85%        | 98.0% - 101.0%                                        |

### Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Insoluble in acetone. Insoluble 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 incompatible materials and excessive humidity.

### **Applications**

- Use: Widely used as a buffering agent, pH adjuster, and electrolyte source in pharmaceutical formulations. It helps maintain the desired pH of oral, topical, and injectable preparations and is also used in laboratory reagents, food processing, and water treatment applications.

- Dosage: Depends on its intended pharmaceutical formulation and therapeutic application. It should be used according to formulation requirements or as directed by a qualified healthcare professional. The appropriate dosage varies based on the dosage form, patient age, and clinical indication.

### **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.