

SPECIFICATION

Product Name: Tri Sodium Orthophosphate Food Grade
Chemical Formula: Na ₃ PO ₄
CAS Number: 7601-54-9
Molecular Weight: 163.94 g/mol
Appearance: White Powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification	-	+ve	+ve
PH	%	11.78%	Min 11.5%
Loss on drying	%	0.3%	Max. 2.0%
Phosphorus pentoxide	%	42.26%	Min. 41.0%
Sulphated	PPM	40 PPM	150 PPM
Iron	PPM	<8 PPM	30 PPM
Chloride	PPM	30 PPM	200 PPM
Arsenic	PPM	Nil	10 PPM
Heavy metals	PPM	0.1 PPM	20 PPM

Physical Properties

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

Shelf Life & Storage

- Shelf Life: 3 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 acids, excessive heat, and humidity in the original, properly labeled container.

Applications

- Use: Widely used as a buffering agent, pH adjuster, emulsifier, sequestrant, and stabilizer in food processing. It helps improve texture, retain moisture, enhance product stability, and control acidity. It is also used in pharmaceutical, laboratory, and industrial formulations.

- Dosage: Depends on the intended application and formulation. In food products, it should be used in accordance with applicable food regulations and product formulation requirements. The appropriate usage level varies based on the product type, processing requirements, and applicable regulatory limits.

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.