

SPECIFICATION

Product Name: Tetra Sodium Pyrophosphate Anhydrous Food Grade
Chemical Formula: Na ₄ P ₂ O ₇
CAS Number: 7722-88-5
Molecular Weight: 265.90 g/mol
Appearance: White Powder.
Odor: Odorless.

Chemical Composition

Parameter	Unit	Specification (Min/Max)
pH (1 % Solution)	-	10.0 – 10.7
Bulk Density	-	0.60 to 1.00
Water Insoluble	%	Max. 0.05%
Loss on ignite (at 550 °C, 30 minute)	%	Max. 0.5
P ₂ O ₅	%	Min. 53%
Assay	%	95.0 - 100.5
Fluoride	PPM	Max. 10.0 PPM
Arsenic	PPM	Max. 3.0 PPM
Lead as pb	PPM	Max. 3.0 PPM
Cadmium	PPM	Max. 1.0 PPM

Mercury as hg	PPM	Max. 1.0 PPM
Moisture (at 110 Deg C)	%	Max. 0.50%
Iron	PPM	Max. 50 PPM
Sulphates	PPM	Max. 100 PPM
Heavy Metal	PPM	Max. 30 PPM
Chloride	PPM	Max. 500 PPM
Retained on 20 mesh (850 μ m)	%	Max. Nil to 1.20
Passed thru 100 mesh (150 μ m)	%	Min 75 %

Physical Properties

- Solubility: Freely soluble in water. Practically insoluble in ethanol. Insoluble in organic solvents.

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated area, protected from moisture, humidity, and direct sunlight. Due to its hygroscopic nature, exposure to moisture may cause caking and affect product quality. Keep containers tightly sealed when not in use and avoid contact with strong acids.

Applications

- Use: Used as a sequestrant, emulsifier, buffering agent, dispersing agent, and texturizer in food applications. It helps improve water retention, stabilize emulsions, control mineral interactions, and enhance texture in processed foods.
 - Dosage: Depends on the food application, processing requirements, and applicable regulatory limits.

Packaging

- Standard Packing: 25 kg woven PP bags with inner liner and 100 gram, 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.

