

SPECIFICATION

Product Name: Tri Calcium phosphate Feed Grade
Chemical Formula: $\text{Ca}_3(\text{PO}_4)_2$
CAS Number: 7758-87-4
Molecular Weight: 310.18 g/mol
Appearance: White or almost white, crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification
Solubility		Complies	Practically insoluble in water and in ethanol (96%). It dissolves indilute hydrochloric acid and in dilute nitric acid.
Identification test A Identification test B Identification test C		Complies Complies Complies	A white precipitate is formed. A yellow precipitate of ammonium phosphomolybdate is formed. It complies assay limit of calcium.
Carbonate		Complies	No effervescence occurs
Sulphate	%	0.2	The turbidity of the Sample does not exceed. that of the Standard (NMT0.8%).
Chloride	%	0.8	The turbidity of the Sample does not exceed that of the Standard (NMT0.14%)
Barium		Complies	No turbidity is produced within 15 min.
Arsenic	%	1.77	NMT 3 $\mu\text{g}/\text{gm}$
Acid insoluble substance	%	0.1	Residue NMT 0.2 %
Fluoride	PPM	40	NMT 75 ppm
Assay Calcium	%	36	34.0 % - 40.0%

Loss on ignition	%	2	NMT8.0%
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Physical Properties

- Solubility: Practically insoluble in water; soluble in dilute acids.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated area. Keep container tightly closed and protected from moisture, heat, and direct sunlight. Avoid contact with incompatible materials. Place bags on pallets above floor level to prevent moisture absorption. Use original sealed packaging for best stability.

Applications

- Use: Source of calcium and phosphorus mineral supplement in animal feed. Supports proper bone and teeth formation in growing animals. Supports milk production and skeletal health. Provides essential minerals for fish and shrimp development. Common ingredient in mineral premixes and veterinary feed supplements. Used in pet food formulations as a mineral fortifier.
- Dosage: Depends on species, age, diet composition, and existing calcium/phosphorus levels in the feed. Final inclusion should be set by an animal nutritionist.

Packaging

- Standard Packing: 25 kg HDPE bags 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.