

SPECIFICATION

Product Name: Di-basic Calcium Phosphate Anhydrous IP Grade
Chemical Formula: CaHPO ₄
CAS Number: 7757-93-9
Molecular Weight: 136.06 g/mol
Appearance: White or almost white, crystalline granules
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification A, B & C	-	Complies	-
Acid insoluble substances	%	0.070	Max 0.2
Carbonates	-	Complies	To Confirm Test
Chlorides	PPM	750	Max 2500
Fluorides	PPM	21	Max 50
Sulphates	%	0.4	Max 0.5
Arsenic	PPM	Complies	Max 3
Barium	-	Complies	To Confirm Test
Heavy metals (as Pb)	PPM	32	Max 40
Iron	PPM	260	Max 400

Loss on ignition (800°C to 825°)	%	7.70	6.6 – 8.5
Mono Calcium & Tri Calcium Phosphate	MI	11.6	11 – 12.5
Assay	%	100.81	98 - 105
Microbiological Analysis (In House)			
Total Aerobic microbial count	cfu/gm	Complies	Max 1000
Total yeast and mold count	cfu/gm	Complies	Max 100
Escherichia Coli	Absent/g	Complies	Absent/g
Salmonella	Absent/g	Complies	Absent/g

Physical Properties

- Solubility: Slightly soluble in water; insoluble in alcohol.

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 container tightly closed to protect from moisture. Protect from humidity and direct sunlight. Store at room temperature (below 30°C). Keep away from strong acids and incompatible materials.

Applications

- Use: Diluent/filler in tablet and capsule formulations. Used as a binder and bulking agent. Used in calcium tablets. Used in antacid preparations. Used as a mineral fortifier.
- Dosage: Depends on the formulation and medical indication.

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.