

SPECIFICATION

Product Name: Di Calcium Phosphate Anhydrous BP/USP 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	%	0.01	Max 0.2
Carbonates	-	Complies	To Confirm Test
Chlorides	PPM	<330	Max 300
Fluorides	PPM	<50	Max 50
Arsenic	PPM	<2	Max 2
Barium	-	Complies	To Confirm Test
Heavy metals (as Pb)	PPM	<30	Max 30
Iron	PPM	302	Max 400
Loss on ignition (800°C to 825°)	%	7.5	6.6 – 8.5

Mono Calcium & Tri Calcium Phosphate	MI	14.6	14.0 – 15.5
Assay	%	98.5	98 – 102.5
Lead (ICP/MS)	PPM	<25	Max 0.25
Cadmium (ICP/MS)	PPM	<1	Max 1
Mercury (ICP/MS)	PPM	<1	Max 1
Sulphate	%	<0.2	Max 0.48
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 ethanol. Soluble in dilute mineral 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 place. Keep container tightly closed after use. Protect from moisture and humidity. Keep away from direct sunlight and heat sources.

Applications

- Use: Tablet and capsule diluent (filler). Used as a calcium supplement in medicinal formulations.
- Dosage: Depends on formulation type and intended use.

Packaging

- Standard Packing: 25 kg woven PP bags with inner liner, 1Kgs and 100grams, 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.