

## SPECIFICATION

<b>Product Name:</b> Di Calcium Phosphate Anhydrous EP Grade
<b>Chemical Formula:</b> CaHPO <sub>4</sub>
<b>CAS Number:</b> 7757-93-9
<b>Molecular Weight:</b> 136.06 g/mol
<b>Appearance:</b> White Crystalline Powder
<b>Odor:</b> Odorless

## Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Assay (as CaHPO <sub>4</sub> )	%	99.5%	97.0 - 103.0%
Calcium Content	%	25.2%	23.0 - 28.0%
Phosphate (PO <sub>4</sub> )	%	19.8%	18.5 - 21.0%
pH (10% solution)	-	7.0	6.5 - 7.5
Fluoride (F)	PPM	30 PPM	NMT 50 PPM
Loss on Drying	%	5.2%	NMT 6.6%
Heavy Metals (as Pb)	PPM	10 PPM	NMT 20 PPM
Arsenic (As)	PPM	1.2 PPM	NMT 2 PPM
Lead (Pb)	PPM	2.1 PPM	NMT 3 PPM
Mercury (Hg)	PPM	0.5 PPM	NMT 1 PPM
Cadmium (Cd)	PPM	0.6 PPM	Max. 1 PPM
<b>Microbiological Tests</b>			
Total Plate Count/g	cfu/g	450 cfu/g	NMT 1000 cfu/g
Yeast and Molds/g	cfu/g	30 cfu/g	NMT 100 cfu/g
Escherichia coli	g	Absent	Absent in 1g
Salmonella spp.	g	Absent	Absent in 10g



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### **Physical Properties**

- Solubility: Practically Insoluble in water. Insoluble in ethanol. Insoluble in acetone. Insoluble in ether.

### **Shelf Life & Storage**

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated place, protected from moisture and contamination.

### **Applications**

- Use: Widely used in pharmaceutical, nutraceutical, food, and dietary supplement formulations. It serves as a source of calcium and phosphorus and is a versatile pharmaceutical excipient.
- Dosage: Depends on Calcium and phosphorus requirements, Intended application, Product formulation, Age and nutritional status, Regulatory requirements.

### **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.



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