

SPECIFICATION

Product Name: Di Calcium Phosphate Anhydrous DC Granules IP/BP/USP Grade
Chemical Formula: CaHPO_4
CAS Number: 7757-93-9
Molecular Weight: 136.06 g/mol
Appearance: Free Flowing White Granules
Odor: Odorless

Chemical Composition

Parameter	Method	Unit	Typical Value	Specification (Min/Max)
Identification	UPS	-	Complies	To comply with the test
Acid insoluble substances	UPS	%	0.074	Max 0.2
Carbonates	UPS	-	Complies	To comply with the test
Chloride	UPS	%	<0.25	Max 0.25
Fluoride	UPS	PPM	18	Max 50
Sulphate	UPS	%	<0.5	Max 0.5
Arsenic	UPS	PPM	<3	Max 3
Barium	UPS	-	Complies	To comply with the test
Heavy metals	IH	PPM	<30	Max 30
Lead	ICP-MS	PPM	Complies	Max 1.0

Cadmium	ICP-MS	PPM	Complies	Max 1.0
Mercury	ICP-MS	PPM	Complies	Max 0.1
Assay CaHPO ₄	UPS	%	100.14	98.0 – 103.0
Loss on ignition (800°C to 825°)	UPS	%	8.04	6.6 – 8.5
Microbiological Analysis (In House)				
Total Aerobic 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/10g	Complies	Absent/10g
Physical Analysis (In House)				
Particle size/Sieve Analysis	1.0% Maxi. Retained on 20# BSS (841 micron) 2.0% Maxi. Retained on 40#BBS (400 micron) 40.0% Mini. Retained on 100#BBS (149 micron) 25.0% maxi thru on 200#BBS (74 micron) 5.0% maxi thru on 325# BBS (44 micron)			0.0 0.2 60.4 10 2.5

Physical Properties

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

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 away from moisture and humidity (although anhydrous form is non-hygroscopic, prolonged exposure

to moisture may affect flow properties). Store at room temperature (15–30°C). Keep containers tightly closed when not in use. Protect from direct sunlight and heat sources.

Applications

- Use: Filler/diluent in pharmaceutical tablets, Binder & Carrier for API, Nutritional / Mineral Supplement Tablets. Used in premix formulations. In tablet premixes for veterinary supplements.
- Dosage: Depends on application (pharmaceutical, nutraceutical, or food 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.