



TECHNICAL DATA SHEET

CAS Number: 7757-93-9
Molecular Formula: CaHPO_4
Molecular Weight: 136.06
EINECS No.: 231-840-8
EC Code: Not allocated

1. Product Description

Calcium Hydrogen Phosphate, Anhydrous is a white to off-white crystalline powder used as a source of calcium and phosphorus in feed, food, and industrial applications. It is a stable, bioavailable source of calcium and phosphorus, often used in animal feed, fortified foods, and chemical formulations.

It provides essential nutrients for bone development, metabolic processes, and general health, making it a versatile additive in nutritional, food, and industrial products.

2. Specification

Parameter	Specification
Appearance	White or off-white crystalline powder
Bulk density	0.8 – 1.0 g/cm ³
Tapped density	0.9 – 1.1 g/cm ³
Particle size	100% pass 200 mesh
Identification	Positive
pH (10% solution)	6.5 – 8.0
Loss on Drying	≤ 0.5%
Insoluble Matter	≤ 0.2%
Assay (CaHPO_4)	≥ 98.0%

Parameter	Specification
Calcium (Ca)	22 – 24%
Phosphorus (P ₂ O ₅)	28 – 30%
Heavy Metals (Pb)	≤ 10 ppm
Arsenic (As)	≤ 1 ppm
Microbiological Standards	
Total Plate Count	≤ 1000 CFU/g
Yeast & Mold	≤ 100 CFU/g
E. Coli	Negative
Salmonella	Negative

3. Applications

Feed additive – as a calcium and phosphorus source

Fortified foods and nutritional products

Industrial chemical formulations

Animal nutrition and veterinary feed

4. Packaging and Storage

Packaging: 25 kg net weight per fiber drum or paper bag, inner with PE liner

Shelf Life: 24 months when properly stored

Storage Conditions: Store in a cool, dry place, away from light and moisture

5. Regulatory Status

Food and feed grade, conforms to FCC / USP standards (depending on grade)

Manufactured under ISO and HACCP-certified facilities

Non-GMO, Allergen-Free, BSE/TSE-free