

Product Information

CALCIUM HYDROGEN PHOSPHATE, ANHYDROUS

Ph Eur. GRADE

DESCRIPTION

Dicalcium Phosphate, Anhydrous is a white, odorless, tasteless powder. It is stable in air. Certificates of Analysis according to European Pharmacopoeia (EP 11th ed.).

NOMENCLATURE

Dicalcium Phosphate, Anhydrous

Dibasic Calcium Phosphate, Anhydrous

FORMULA

CaHPO₄

CAS NUMBER

7757-93-9

FORMULA WEIGHT

136.1 g/mol

USES

▪ **Pharmaceutical**

In the manufacture of pharmaceutical tablets and as a source of calcium and phosphorus in nutritional supplements.

▪ **Dentifrice**

As a polishing agent.

▪ **Food**

Fortification of cereals and other processed foods

STORAGE

Store at room temperature

SHELF LIFE

36 Months

SPECIFICATIONS (according to European Pharmacopoeia 11.0)

Identity	Passes test
Assay CaHPO ₄ , as is	97.5 – 102.5 %
Acid-insoluble substances	maximum 0.2 %
Carbonate (CO ₃)	Passes test
Chloride (Cl)	maximum 0.25 %
Fluoride (F)	maximum 0.01 %
Sulfate (SO ₄)	maximum 0.5 %
Arsenic (As)	maximum 0.0001 %
Lead (Pb)	maximum 0.0001 %
Cadmium (Cd)	maximum 0.0001 %
Mercury (Hg)	maximum 0.0001 %
Barium (Ba)	Passes test
Iron (Fe)	maximum 0.04 %
Aluminum (Al)	maximum 0.02 %
Loss on Ignition at 800°C	6.6 – 8.7 %
Loss on drying	maximum 2.0 %
Residual solvents (ICH Q3C)	Excluded by production process
Nickel (Ni)	maximum 0.0001 %
Vanadium (V)	maximum 0.0001 %
Strontium (Sr)	maximum 0.03 %
Solubility	Practically insoluble in water but readily soluble in dilute hydrochloric and nitric acids.