

Product Information

CALCIUM HYDROGEN PHOSPHATE, DIHYDRATE

Ph Eur. GRADE

DESCRIPTION

Dicalcium Phosphate, Dihydrate is a white, odorless, tasteless powder. It is stable in air. Product quality comply with European Pharmacopoeia (EP 11th ed.).

NOMENCLATURE

Dicalcium Phosphate, Dihydrate
 Dibasic Calcium Phosphate, Dihydrate

FORMULA

$\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$

CAS NUMBER

7789-77-7

FORMULA WEIGHT

172.1 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

As a leavening agent, when used in conjunction with other leavening acids.

STORAGE

Store at room temperature

SHELF LIFE

36 Months

SPECIFICATIONS (According to European Pharmacopoeia 11.0)

Identity	Passes test	
Assay $\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$, as is	98 – 105	%
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 800-825°C	24.5 – 26.5	%
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.	