

2-2 Monocalcium Phosphate (MCP)

I. Product Overview

Product Name: Monocalcium Phosphate (MCP)

Category: Calcium Phosphate Salt

CAS Number: 7758-23-8

Molecular Formula: $\text{Ca}(\text{H}_2\text{PO}_4)_2 \cdot \text{H}_2\text{O}$ (Monohydrate)

$\text{Ca}(\text{H}_2\text{PO}_4)_2$ (Anhydrous)

Packing Specifications: 25 kg/bag, 23 tons/20FCL

Minimum Order Quantity: 500 kg

Quality Standards: HACCP, Kosher, Halal, ISO



II. Product Specifications

Item	Unit	Specification
Appearance	-	White crystalline powder or flake crystals
Calcium Content (as Ca)	%	15.9-17.70
P ₂ O ₅ Content	%	50.0-52.5
Identification Test	-	Positive
CaO Content	%	19.0-24.8
Arsenic (As)	%	≤0.0003
Fluoride (F)	%	≤0.0001
Heavy Metals (as Pb)	%	≤0.0015
Lead (Pb)	%	≤0.0005
Cadmium (Cd)	%	≤0.0001
Mercury (Hg)	%	≤0.0001
Loss on Ignition	%	≤1.0
Loss on Heating	%	≤17.0
Clarity Test	-	Pass
Carbonate Test	-	Pass
Dissociable Acid and Basic Salts Test	-	Pass

III. Applications

- In the food industry, it is used as a calcium supplement, bulking agent, dough conditioner, curing agent, leavening agent in acidic ingredients, nutritional calcium enhancer, yeast nutrient, and more.

IV. Storage Conditions

Monocalcium phosphate (MCP) should be stored in a cool, dry, and ventilated place, away from direct sunlight and high temperature and humidity environments. The storage temperature should not exceed 30°C.