

5-1 Calcium Propionate

I. Product Overview

Product Name: Calcium Propionate

Category: Preservative

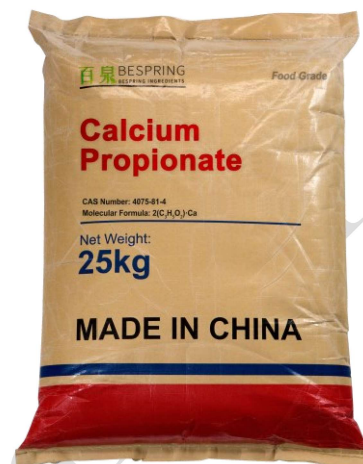
CAS Number: 4075-81-4

Molecular Formula: $2(C_3H_5O_2) \cdot Ca$

Packing Specifications: 25 kg/bag, 16 tons/20FCL

Minimum Order Quantity: 500 kg

Quality Standards: HACCP, Kosher, Halal, ISO



II. Product Specifications

Item	Specification
Appearance	White powder
Calcium Propionate Content (on dry basis)	99.0 ~ 100.5%
Loss on Drying	≤ 4%
Acidity/Alkalinity	≤ 0.1%
pH of 10% Aqueous Solution	7.0-9.0
Water-Insoluble Matter	≤ 0.15%
Heavy Metals (as Pb)	≤ 10 ppm
Arsenic (As)	≤ 3 ppm
Lead	≤ 2 ppm
Mercury	≤ 1 ppm
Iron	≤ 5 ppm
Fluoride	≤ 3 ppm
Magnesium	≤ 0.4%

III. Applications

- It has a broad antibacterial effect against molds, yeasts, and bacteria, making it suitable for use in bread and pastries. The antimicrobial efficacy increases as the pH value decreases. Calcium propionate is nearly non-toxic to humans. In cosmetics, a

maximum permissible concentration of 2% (as propionic acid) is used as an anti-corrosive agent.

IV. Storage Conditions

Calcium propionate should be stored in a dry, cool warehouse away from heat sources and direct sunlight. During storage and transportation, attention should be paid to moisture and rain prevention to prevent the product from becoming damp and caking, which can affect its quality.