

Calcium Propionate : $(\text{CH}_3\text{CH}_2\text{OO})_2\text{Ca}$

Product Identification:

Chemical Synonyms: cal prop, CP, calpro, propionic acid, calcium salt

Chemical Family: organic acid, calcium salt

Ingredients:

	% by Weight	CAS #
Calcium Propionate (dry basis)	99 min	4075-81-4
Water	5 max	7732-18-5

Physical Properties

	As a Solution	Data
	Molecular Weight:	186.22 (Calcium Propionate)
	Appearance:	clear, colorless, liquid
	pH:	4.5 to 5.5
	Freezing Point:	not determined
	Specific Gravity:	1.10 to 1.13 at 25°C
	Reactivity in Water:	does not react
	Odor:	characteristic, propionic acid
	Boiling Point:	108°C
	Solubility in Water:	infinitely soluble
	As a Powder	Data
	Molecular Weight:	186.22
	Appearance:	white powder or granules
	pH of 10% Aqueous Solution:	8.0 to 9.5
	Melting Point:	400°C (decomposes)
	Solubility in Water:	28.5% in water at 20°C
	Reactivity in Water:	does not react
	Odor:	odorless
	Boiling Point:	not applicable
	Vapor Pressure :	not applicable
	Bulk Density:	approximately 48 lbs./cu .ft.

Solubilities

Water Solubility	
Temperature	Weight %
0°C :	30.0
20°C :	28.5
40°C :	28.0
60°C :	27.0
80°C :	28.5
100°C :	32.5

Solvent Solubility at 25°C	
Temperature	Weight %
Methanol :	2.0
Ethanol :	0.3
Acetone :	<0.1

Toxological Properties

Calcium Propionate is a non-toxic food chemical Generally Regarded As Safe by the FDA

As a Solid:

Occupational Exposure:

No exposure limits have been set by OSHA, NIOSH or ACGIH

Carcinogen:

IARC: No, NTP: No, OSHA: No

As a Liquid:

Occupational Exposure:

No exposure limits have been set by OSHA, NIOSH or ACGIH

Carcinogen:

IARC: No, NTP: No, OSHA: No

FDA Status

Section	Use References
FDA §184.1221	Antimicrobial Agent

NIACET Calcium Propionate Chemical Abstract Service Number: 4075-81-4