

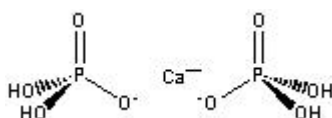
TECHNICAL INFORMATION

Catalog Number: 193803, 193804, 193805, 193806

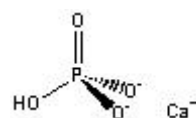
Calcium Phosphate

Structures:

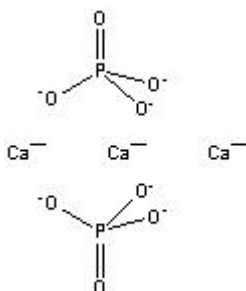
Monobasic:



Dibasic:



Tribasic:



	<i>Monobasic</i>	<i>Dibasic</i>	<i>Tribasic</i>
Molecular Formula:		CaHPO_4	$\text{Ca}_5\text{HO}_{13}\text{P}_3$
Molecular Weight:	$\text{Ca}(\text{H}_2\text{PO}_4)_2$	136.1	502.3
CAS #	234.1 7758-23-8	7757-93-9	12167-74-7

Synonyms:

Monobasic:

Calcium dihydrogenphosphate; Acid calcium phosphate; Calcium biphosphate; Monocalcium orthophosphate; Monocalcium phosphate; Primary calcium phosphate; Calcium superphosphate; Calcium bis(dihydrogenphosphate)

Dibasic:

Calcium monohydrogen phosphate; Dicalcium orthophosphate; Secondary calcium phosphate; Calcium hydrogenphosphate

Physical Description:

White powder

Solubility:

Monobasic:

Soluble in 1 M Hydrochloric acid (50 mg/ml - clear, colorless solution), dilute HNO_3 , acetic acid; moderately soluble in water.

Dibasic:

Soluble in 1 M Hydrochloric acid (100 mg/ml - slightly hazy, colorless to slight yellowish-green solution)

Trihydrate:

Soluble in 1 M Hydrochloric acid (50 mg/ml - clear to slightly hazy, colorless to slight yellowish-green solution)

Description: The monobasic is mainly used in fertilizers, as acidulant in baking powders and in wheat flours, mineral supplement for foods and feeds, in enameling.¹ The dibasic is used in animal feeds, as a mineral supplement, as an antacid, in the manufacturing of glass, in dental products and in fertilizers.¹

Availability:

Catalog Number	Description	Size
193803	Calcium Phosphate, Monobasic	50 g 100 g 500 g
193804	Calcium Phosphate, Dibasic	100 g 500 g 1 kg
193805	Calcium Phosphate, Tribasic	25 g 100 g 500 g
193806	Calcium Phosphate, Tribasic, cell culture reagent	25 g 100 g 500 g

Reference:

– *Merck Index, 12th Ed.*, Nos. 1739, 1740.