

**MONOCALCIUM
PHOSPHATE - 22/16**Gruppo
FOSFITALIA**Monocalcium phosphate, chemically obtained from inorganic sources.
(Monocalcium Phosphate 22/16)****IDENTIFICATION**

Chemical substance
Ca(H₂PO₄)₂·H₂O

Synonyms and commercial names
Monobasic calcium phosphate monohydrate
Calcium dihydrogen phosphate
Primary calcium phosphate
MCP

CAS n° [7758-23-8]
EINECS n° [2318371]

SPECIFICATIONS AND QUALITY PARAMETERS

Phosphorus.....22.0% ± 0,2% (Met. 71/393/EEC)
Calcium16.0% min (Met. 71/250/EEC)
Moisture1.5% max.
Fluorides.....0.20% max.
Cadmium.....< 10 mg/kg
Lead.....< 5 mg/kg
Arsenic.....< 5 mg/kg

Bioavailability indicators

Solubility in:
-citric acid 2%.....98% min. (Met. 77/535/EEC 3.1.3)
-neutral ammonium citrate..98% min. (Met. 77/535/EEC 3.1.4)
-alkaline ammonium citrate...98% min. (Met. 77/535/EEC 3.1.5.1)
-water.....75% min.
pH (10%)3.5 - 4.5

DESCRIPTION

Feed grade monocalcium phosphate, chemically obtained by means of reaction between purified phosphoric acid and highly pure mineral sources of calcium.

RECOMMENDED USE/APPLICATIONS

Monocalcium phosphate is the most highly regarded source of phosphorus of all calcium phosphates due to its high phosphorus content and superior digestibility. With a Ca/P ratio < 1, it is especially suitable where a low supply of calcium with respect to phosphorus is required.

PACKAGING, HANDLING AND STORAGE

In bulk, in 1000/1500 kg approx. sacks or in 50 kg sacks on pallets for a net weight of 1600 kg. To be stored in a dry place. Not classified as a dangerous good according to transport regulations.

CHEMICAL AND PHYSICAL CHARACTERISTICS

Granular product, acidic in taste, pastel-white in colour. Soluble in ammonium citrate and principal inorganic acids. Good solubility in water.

Density.....1.1 kg/l
Sieve analysis:
> 500 microns.....40%
500 - 200 microns.....30%
< 200 microns.....30%

UNDESIRABLE ELEMENTS

Fluorine (F)
Arsenic (As)
Cadmium (Cd)
Lead (Pb)
Mercury (Hg)

EU STANDARDS

max 0,2%
max 10 mg/kg
max 10 mg/kg
max 30 mg/kg
max 0,1 mg/kg

FOSFITALIA VALUES

max 0,2%
max 5 mg/kg
max 10 mg/kg
max 5 mg/kg
max 0,1 mg/kg

Headquarters: Via del Perlar, 2 - 37135 Verona - Tel. ++39.045.500.757 - Fax ++39.045.508.658
www.fosfitalia.it - E-mail: info@fosfitalia.it

Manufacturing plant: Via E. Fermi, 11 - 47100 Forlì - Tel. ++39.0543.721.335 - Fax ++39.0543.722.453

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Chemical analysis by: **MEDISERVICE** s.r.l.

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