

**MONO-DICALCIUM
PHOSPHATE - 20/20**Gruppo
FOSFITALIA**Calcium Phosphate, chemically obtained intermediate between dicalcium phosphate and monocalcium phosphate. (Mono-dicalcium Phosphate 20/20)****IDENTIFICATION**

Chemical substance
 CaHPO_4 , $\text{Ca}(\text{H}_2\text{PO}_4)_2 \cdot \text{H}_2\text{O}$
 Synonyms and commercial names
 Mono-dicalcium phosphate
 MCDP or DMCP
 CAS n° [10103-46-5]
 EINECS n° [2232836]

SPECIFICATIONS AND QUALITY PARAMETERS

Phosphorus.....20.0% \pm 0,2% (Met. 71/393/EEC)
 Calcium.....20.0 - 21.0% (Met. 71/250/EEC)
 Moisture2.0% 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)
 -water40 - 50%
 pH (10%)4.0 - 5.0

DESCRIPTION

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

RECOMMENDED USE/APPLICATIONS

The established greater digestibility of the product makes mono-dicalcium phosphate a more highly regarded source of phosphorus than dicalcium phosphate. Its Ca/P ratio is \approx 1 which makes it particularly suitable for formulations in which it is not necessary to alter the Ca/P value already created by other ingredients. As it is a micro-granular product, it is especially free-flowing and so creates less dust during use.

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

Microgranular product, pastel-white in colour. Density.....1.0 kg/l
 Soluble in ammonium citrate and principal Sieve analysis:
 inorganic acids. Partly soluble in water. > 500 microns.....40%
 500 - 200 microns.....40%
 < 200 microns.....20%

UNDESIRABLE ELEMENTS**EU STANDARDS****FOSFITALIA VALUES**

Fluorine (F)	max 0,2%	max 0,2%
Arsenic (As)	max 10 mg/kg	max 5 mg/kg
Cadmium (Cd)	max 10 mg/kg	max 10 mg/kg
Lead (Pb)	max 30 mg/kg	max 5 mg/kg
Mercury (Hg)	max 0,1 mg/kg	max 0,1 mg/kg

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Chemical analysis by:

Valid from 1998-10-01

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