

SUPERPHOS - 22/22Gruppo
FOSFITALIA**Calcium Phosphate, chemically obtained intermediate between dicalcium phosphate and monocalcium phosphate. (Superphos 22%)****IDENTIFICATION**

Chemical substance
CaHPO₄, Ca(H₂PO₄)₂·H₂O

Synonyms and commercial names
Mono-dicalcium phosphate
MDCP or DMCP

CAS n° [10103-46-5]
EINECS n° [2332836]

SPECIFICATIONS AND QUALITY PARAMETERS

Phosphorus.....22.0% ± 0,2% (Met. 71/393/EEC)
Calcium22.0% max. (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. 771/535/EEC 3.1.5.1)
-water.....50% min.
pH (10%)3.5 - 4.5

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 and high phosphorus concentration makes SUPERPHOS mono-dicalcium phosphate a more highly regarded source of phosphorus than dicalcium phosphate. Its high phosphorus content means its level of inclusion in formulations can be reduced, so allowing more space-formula where needed.

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

Mixed granular product, odour-free and acidic in taste, pastel-white in colour. Soluble in ammonium citrate and principal inorganic acids. Partly soluble in water.

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

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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