



Chemical Name : **Monocalcium Phosphate**  
 Chemical Formula : **Ca(H<sub>2</sub>PO<sub>4</sub>)<sub>2</sub>·H<sub>2</sub>O**  
 CAS No : 7758-23-8  
 EINECS No : 231-837-1

## Chemical Specifications<sup>(1)</sup>

## Typical Analysis

## Method of Analysis

Total Phosphorus (P), %	23 ± 0,3%	Spectrometric (71/393/EEC)
Relative solubility of P		
% in Ammonium citrate (Petermann)	98	(77/535/EEC 3.1.4)
% in Citric acid 2%	99	(77/535/EEC 3.1.3)
% in water	80	(71/393/EEC)
Calcium (Ca), %	15-18	(71/250/EEC)
Ca/P	0.73	
pH (1% solution in water)	3.6	potentiometry
Humidity, (free water) %	2.0	(71/393/EEC)

## Undesirable Elements<sup>(1, 2)</sup>

Fluorine (F), %	0.12	ion specific electrode
Lead (Pb), mg/kg	8	atomic absorption (flame)
Cadmium (Cd), mg/kg	1	atomic absorption (flame)
Arsenic (As), mg/kg	6	atomic absorption (hydride)
Mercury (Hg), mg/kg	0.02	atomic absorption (without flame)
Dioxins, ng/kg	<0.2	WHO-PCDD/F-TEQ
Dioxins and dioxin-like PCBs, ng/kg	<0.3	WHO-PCDD/F-TEQ

## Physical Parameters

<i>Apparent density</i>		
<i>loose, kg/dm<sup>3</sup></i>	0.70	gravimetry
<i>tapped, kg/dm<sup>3</sup></i>	1.00	gravimetry
<i>Particle size, mm</i>		
<i>M</i>	0.2<90% < 1.2	granulometry (sieve analysis)
<i>G</i>	0.5<90%<2	granulometry (sieve analysis)
<i>P</i>	90%<0.5	granulometry (sieve analysis)

(1) Analysis available on request. In accordance with European directive 1998/67/EC

(2) Conform to current EC legislation, Directives 2002/32/EC, 2003/57/EC, 2003/100/EC, 2005/87/EC, 2006/13/EC and 2008/76/EC, and Regulation 183/2005  
 Origin : EU

### Nutrix .Ltd.

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## Production Method

**Nutriphos® Monocal** is produced through the chemical reaction of defluorinated phosphoric acid with dihydrated crystalline dicalcium phosphate, under strictly controlled conditions. The phosphoric acid used is purified, eliminating the undesirable elements.

## Packaging Labeling and Storage

**Nutriphos® Monocal** is available in bulk, 1000 Kg big bags or 2 5 Kg bags and either transported by truck, by rail or by ship. All products are labelled conform to Directive 96/25/EC and 98/67/EC and identified by means of a lotnumber in order that trace ability is guaranteed conform to the Feed Hygiene legislation 183/2005/EC.

Properly stored in a dry and cool place it is recommended to use **Nutriphos® Monocal** within 2 years of manufacture.

## Use of Nutriphos® Monocal

**Nutriphos® Monocal** is a granular feed phosphate with a high phosphorus content. From research by reputed institutes, both with poultry and pigs, it is clear that **Nutriphos® Monocal** has the highest content of digestible phosphorus of all calcium phosphates. **Nutriphos® Monocal** contains phosphorus and calcium in the ratio of about 0.73. **Nutriphos® Monocal** is slightly acid with a negative buffering capacity which makes **Nutriphos® Monocal** an ideal phosphorus source for the production of piglet feeds. **Nutriphos® Monocal** is free-flowing and blends easily with other feed materials above all it will not cause dust during handling.

## Why Nutriphos® Monocal?

**Nutriphos® Monocal** icombines highly digestible phosphorus with a slightly acidic nature and it's, therefore, the phosphate of choice not only for the production of feed for pigs but also for poultry.

## Recommendations

The product should be stored in a dry place.

Technical specifications guaranteed at the time that the product leaves the factory.

Not classified as dangerous substance in accordance with current transportation norms.

UNDESIRABLE ELEMENTS	EU STANDARDS
Fluorine (F)	0,2% max
Arsenic (As)	10 mg/kg max
Cadmium (Cd)	10 mg/kg max
Lead (Pb)	15 mg/kg max
Mercury (Hg)	0,1mg/kg max

While every care has been taken to ensure that the information given in this datasheet is correct at the time of publication, the company cannot give any absolute guarantee as to its accuracy or accept any liability resulting from its use.

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