

Mineral Fact Sheet

Monocalcium phosphate	
Formula:	$\text{CaHPO}_4 \times \text{Ca}(\text{H}_2\text{PO}_4)_2 \times \text{H}_2\text{O}$
CAS No.:	10103-46-5
EC No.:	233-283-6
Feed Materials Catalogue:	11.3.2
Manufacturing Process:	
<p>Monocalcium phosphate, chemically a intermediate between dicalcium phosphate and monocalcium phosphate, is obtained by reaction of a calcium source with purified feed grade phosphoric acid or by reaction of dicalcium phosphate feed grade with purified feed grade phosphoric acid. According to the reaction, the ratio monocalcium-/dicalcium phosphate can vary.</p>	
Characteristics:	
Total phosphorus	20 – 22 %
Soluble phosphorus	> 95 % in 2% citric acid
	> 95 % in alkaline ammonium citrate
	> 50 % in water
Calcium	19.5 – 23 %
Ca : P ratio	0.9 – 1.1 : 1
pH (1% solution)	3.5 – 4.5
Ash insoluble in HCl	0.9 – 1.2 %
Moisture	0.7 %
Appearance	off white granulate or powder
Apparent density	0.8 – 1.0 kg/l loose
	0.9 - 1.1 kg/l tapped
Handling, storage, toxicity:	
Non toxic	
Avoid dust formation	
Store in a dry place	
Specific information:	
High concentration of elements, Ca : P ratio balanced, granulated, free flowing	