

DATA SHEET		Monodicalcium Phosphate (F)	
Chemical name	Mono-dicalcium Phosphate: product obtained chemically and composed of dicalcium phosphate and monocalcium phosphate.		
Chemical formula	Ca(H2PO4)2 x H2O - Ca(HPO4) x 2H2O CAS n°: [-] EC n°: [914-172-8]		
Commercial name	MDCP, Superphos 11.3.2 - Catalogue of feed material Reg. (EU) No 2022/1104		
Description	It occurs as a white, odourless, granulated powder, chemically obtained from inorganic sources. Partly soluble in water, it is readily soluble in common diluted acids and in ammonium citrate.		
Chemical characteristics (Typical values)	P = (21.8 ± 0.2) % Ca = (20.5 ± 0.5)% Ca/P = 0.95 Moisture = 1.0 % max pH (1% solution in water) = 3.5-4.5		(Met. 71/393/CEE) (Complessometry) (Thermogravimetric Met.) (Potentiometry)
	Undesirable substances	EU Standards	
	Fluorides < 0.2% Cadmium < 10 mg/kg Lead < 15 mg/kg Arsenic < 10 mg/kg Mercury < 0.1 mg/kg Dioxins (WHO-TEQ) < 0.75 ng/kg Dioxins + dioxin-like PCBs < 1.0 ng/kg non-dioxin-like PCBs < 10 µg/Kg	max 0.2 % max 10 mg/kg max 15 mg/kg max 10 mg/kg max 0.1 mg/kg max 0.75 ng/kg max 1.0 ng/kg max 10 µg/Kg	
Physical characteristics (Typical values)	Bioavailability indicators		
	Solubility of Phosphorus in: - 2% citric acid: 95% min - neutral ammonium citrate : 95% min - alkaline ammonium citrate: 95% min - water: 50-75 %		(Met. 77/535/CEE 3.1.3) (Met. 77/535/CEE 3.1.4) (Met. 77/535/CEE 3.1.5.1) (Met. 77/535/CEE 3.1.5)
	Apparent density Loose: 0.8-0.9 Kg/dm³ Tapped: 0.9-1.0 Kg/dm³		
Particle size			
	> 1.25 mm = 1% 1.25 mm – 0.125 mm = 90% < 0.125 mm = 9%		

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Recommended uses	Feedingstuff, according to Reg. (EC) n.178/2002 and Reg.(EC) n. 183/2005.
Labelling -Compulsory declarations	<p>According to Reg. (EC) No. 767/2009 and Reg. (EU) No 2022/1104:</p> <p>The type of feed: “feed material”</p> <p>The name of the feed material: mono-dicalcium phosphate</p> <p>Calcium and total Phosphorus</p> <p>The name and the address of responsible for the labelling</p> <p>The batch or lot reference number</p> <p>The net quantity expressed in units of mass</p>
Packaging	<p>Bulk</p> <p>PE bags 25 Kg net</p> <p>PP big-bag 1000 Kg net</p> <p>PP big-bag 1400 Kg net</p>
Handling and storage	Mono-dicalcium phosphate is a mineral, which is a stable feed. It should be stored in a dry cool and hygienic place, in properly packaging.
Quality Assurance	<p>GMP+ FSA scheme 2020</p> <p>Scopes “Production of and trade in feed materials”</p>

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