

PRODUCT SPECIFICATION SHEET

PB DICAL 17

Fertilizer Grade

Chemical Name	CAS N°	Dicalcium phosphate
	EINECS N°	7789-77-7
		231-826-1

Chemical Formula	CaHPO₄·2H₂O
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<u>Chemical Composition</u> ⁽¹⁾	<u>Typical Analysis</u>	<u>Method of Analysis</u>
Total Phosphorus (P), %	17 (σ=0.2)	colorimetry (P-molybdate complex)
Relative solubility of P		
% in Ammonium citrate (Petemann)	98	colorimetry (P-molybdate complex)
% in Citric acid 2%	98	colorimetry (P-molybdate complex)
Calcium (Ca), %	22.5	atomic absorption & colorimetry
Ca/P	1.32	
Chlorides (Cl) (as NaCl)	1.0	potentiometric titration
pH (1% solution in water)	6.7	potentiometry
Humidity, (free water) %	1.0 – 2.0	gravimetry (acetone)
HCl insoluble ash, %	0.15	gravimetry

Undesirable Elements ^(1, 2)

Fluorine (F), %	0.07	ion specific electrode
Lead (Pb), mg/kg	4	inductively coupled plasma spectrometry
Cadmium (Cd), mg/kg	<1	inductively coupled plasma spectrometry
Arsenic (As), mg/kg	<1	atomic absorption (hydride)
Mercury (Hg), mg/kg	<0.01	atomic absorption (without flame)
Dioxines, ng/kg	<0.3	WHO-PCDD/F-TEQ
Dioxins and dioxin-like PCBs, ng/kg	<0.5	WHO-PCDD/F-TEQ

Physical Parameters

Apparent density	0.65	gravimetry
loose, kg/dm ³	0.85	gravimetry
tapped, kg/dm ³	95% < 0.4 mm	granulometry (fluid laser diffraction)
Particle size, mm	90% < 1.0 mm	granulometry (sieve analysis)

(1) Analysis available on request

(2) Conform to EC legislation: Regulation EC No 2003/2003 of the European Parliament and of the Council of 13/10/2003 relating to fertilizers; Commission Decision of 18/04/2012 regarding the maximum admissible content of cadmium in fertilizers;

Date : 01 November 2013	Reference: LAB 210 Editie: 17 Datum: 20/02/2014	Signature :
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