

PRODUCT SPECIFICATION SHEET

PB DICAL 17

Feed Grade

Chemical Name

CAS N°
EINECS N°

Dicalcium phosphate
7789-77-7
231-826-1

Chemical Formula

CaHPO₄·2H₂O

Chemical Composition ⁽¹⁾

Typical Analysis

Method of Analysis

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		
Particle size, mm	95% < 0.4 mm	granulometry (fluid laser diffraction)
	90% < 1.0 mm	granulometry (sieve analysis)

⁽¹⁾ Analysis available on request

⁽²⁾ Conform to current EC legislation; Directives 2001/9/EC, 1292/2005/EC 2002/32/EC, 2003/57/EC, 2003/100/EC, 2005/87/EC, 2006/13/EC, 2008/76/EC and 2009/141/EC; Regulations (EC) 178/2002, 183/2005, 767/2009 and 575/2011

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