

TRI-TAB[®]

(Tricalcium Phosphate, Anhydrous Granular) (1/2)

PRODUCT DATA SHEET

IDENTIFICATION

CAS Number [12167-74-7]

SYNONYM

Tribasic Calcium Phosphate
Tricalcium orthophosphate

EMPIRICAL FORMULA

$\text{Ca}_5(\text{OH})(\text{PO}_4)_3$ *
 $10 \text{CaO} \cdot 3\text{P}_2\text{O}_5 \cdot \text{H}_2\text{O}$

MOLECULAR WEIGHT

$M_r = 502.31^*$

PHYSICO-CHEMICAL PROPERTIES

White, odorless, tasteless granular solid

APPLICATIONS

Used as direct compression excipient in the manufacture of medicinal and nutraceutical products and as a source of calcium and phosphorus in nutritional supplements.

SPECIFICATIONS

Specification items	Ph.Eur.	USP-NF	FCC
Assay (as Calcium)	35.0 to 40.0 %	34.0 to 40.0 %	34.0 to 40.0 %
Loss on Ignition	8.0 % max.	8.0 % max.	10 % max.
Water soluble substances	-	0.5 % max.	-
Chlorides	0.15 % max	0.14 % max.	-
Fluorides	75 ppm max.	75 ppm max.	75 ppm max.
Sulphates	0.5 % max.	0.8 % max.	-
Arsenic	4 ppm max	3 ppm max.	3 ppm max.
Lead (FCC)	-	-	2 ppm max.
Heavy metals (as Pb)	30 ppm max.	30 ppm max.	-
Carbonate	-	Must comply	-
Barium	-	Must comply	-
Nitrate	-	Must comply	-
Acid insoluble substances	0.2 % max.	0.2 % max.	-
Dibasic salt and CaO	-	Must comply	-
Iron	400 ppm max.	-	-

Particle Size:		
On 20 # (850 µm)	0 % max	Not a compendial specification
On 40 # (420 µm)	15 % max	Not a compendial specification
Thru 325 # (45 µm)	5 % max	Not a compendial specification

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TYPICAL PROPERTIES

pH (20 % slurry)	6.8
tapped density	0.95 g/ml (59 lbs/ft ³)
Calcium content (unignited basis)	37.6 %
Phosphorus content (unignited basis)	17.3 %
Particle size:	
on 20 # (850 µm)	0 %
on 40 # (420 µm)	5 %
through 100 # (150 µm)	6 %
through 325 # (45 µm)	2 %

REGULATORY / QUALITY

This product meets the requirements of the USP-NF/EP/FCC compendial specifications, current edition.

INS: 341 (iii). This product complies with current European regulation Directive 2002/82/CE.

The following declarations can be downloaded on

<http://www.innophos.com/certs.asp>:

Allergen:	Free of Allergens
GMO	Free of Genetically Modified Organisms
Halal	Product Conforms to Halal Standards
ISO	ISO-9001: 2000 (NSH-ISR)
Kosher	Product Conforms to Kosher Standards
NAFTA	Product Qualifies for the North-American Free Trade Agreement
BSE/TSE	No materials of animal origin are used
Residual Solvents	The product is free of Residual Solvents

PACKAGING

45 kg net weight paper bags – Resource Code 20058850BK4
60 kg net weight fiber drums – Resource Code 20058850FK6

TRANSPORT

<ul style="list-style-type: none">• INLAND• SEA FREIGHT (OMI)• AIR FREIGHT (IATA)	Not regulated
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STORAGE CONDITIONS

Store at room temperature.
Re-test date: 36 months after the date of manufacture

SAFETY INSTRUCTIONS

Please consult the material safety data sheet, downloadable on <http://www.innophos.com>

Manufacturing Site

Chicago Heights, IL.

Shipping Location

Chicago, IL.