

A-TAB[®]

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

PRODUCT DATA SHEET
IDENTIFICATION

CAS Number [7757-93-9]

SYNONYM

Dibasic Calcium Phosphate Anhydrous
 Phosphoric acid, calcium salt (1:1)
 Calcium Phosphate, Anhydrous (1:1)
 Calcium Hydrogen Phosphate Anhydrous
 Calcii hydrogenophosphas anhydricus

EMPIRICAL FORMULA
 CaHPO_4
MOLECULAR WEIGHT
 $M_r = 136.1$
PHYSICO-CHEMICAL PROPERTIES

White, odorless and tasteless granules. Practically insoluble in cold water and in ethanol (96 per cent). It dissolves in dilute hydrochloric acid and in dilute nitric acid.

APPLICATIONS

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

SPECIFICATIONS

The specifications below are the harmonized specifications in force in the European Union, the USA and Japan. As there are some small differences in the harmonized specifications, our sales specifications are based on the most restrictive ones.

Specification Items	Limits	Comment
Identification A	White precipitate forms	Passes test
Identification B	Yellow precipitate forms	Passes test
Assay (as CaHPO_4)	98.0 – 103.0%	“As is” basis
Loss on Ignition	6.6 – 8.5%	
Chlorides	0.248% max	
Fluorides	50 ppm max	Ph.Eur. limit is 100 ppm max
Sulfates	0.48% max	
Arsenic	2 ppm ($\mu\text{g/g}$) max	Ph.Eur. limit is 10 ppm max
Lead ICP/MS	0.25 ppm max	Not in USP nor in Ph.Eur.
Heavy Metals (as Pb)	0.003% max (30 ppm)	Ph.Eur. limit is 40 ppm max
Carbonates	No effervescence	Passes test
Barium	No turbidity in 10 mins.	Passes test
Acid-insoluble substances	0.2% max (≤ 10 mg)	
Iron	400 ppm max	Not a USP requirement
Particle size : On 20 # (850 μm)	1.0 % max	Not a compendial specification
On USS 40 # (425 μm) (cum.)	2.0 % max	Not a compendial specification
On USS 100 # (150 μm) (cum.)	40.0 % min	Not a compendial specification
Through USS 100# (150 μ)	60.0 % max	Not a compendial specification
Through USS 200 # (75 μm)	25.0 % max	Not a compendial specification
Through USS 325 # (45 μm)	5.0 % max	Not a compendial specification

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TYPICAL PROPERTIES

pH (20 % slurry)	5
Bulk Density	0.80 g/ml (50 lbs/ft ³)
Calcium content	29.1 %
Phosphorus content	22.6 %
Lead	0.25 ppm
Particle size (Rotap)	
On 20 # (850 µm)	0 %
Through 100 # (150 µm)	41 %
Through 200 # (75 µm)	10 %
Through 325 # (45 µm)	3 %

REGULATORY / QUALITY

This product meets the requirements of the USP/EP/JP compendial specifications, current edition.

The following declarations can be downloaded on the website:

<http://www.innophos.com/en/products-and-markets>

Allergen:	Free of Allergens
GMO	Free of Genetically Modified Organisms
Halal	Product Conforms to Halal Standards
ISO	ISO-9001:2008 (NSF-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

25 kg net weight paper bags – Resource Code F110BG0035
50 kg net weight fiber drums – Resource Code F110DR0037
500 kg net wt. super sacks - Resource Code F110SS0039
2000 lb net wt. super sacks - Resource Code F110SS0036

TRANSPORT

• INLAND International Legislation (RID-ADR)	Not regulated
• SEA FREIGHT (OMI)	
• AIR FREIGHT (IATA)	

STORAGE CONDITIONS

Store at room temperature.

RETEST DATE

36 months after the date of manufacture.

SAFETY INSTRUCTIONS

Please consult the material safety data sheet, downloadable on <http://www.innophos.com/en/products-and-markets/msds-library>

Manufacturing Site

Chicago Heights, IL.

Shipping Location

Chicago, IL.