

# PCHA100

<b>Formula:</b> $\text{Ca}_{10}(\text{OH})_2(\text{PO}_4)_6$ <b>Product:</b> Calcium Phosphate, Tribasic Food Grade <b>Other names:</b> Tricalcium Phosphate (TCP)- $\text{Ca}_3(\text{PO}_4)_2$ Calcium Hydroxyapatite $\text{Ca}_{10}(\text{OH})_2(\text{PO}_4)_6$ Precipitated Calcium Phosphate- $\text{Ca}_5\text{OH}(\text{PO}_4)_3$  <b>INS:</b> E341iii <b>IUPAC:</b> Tricalcium bis (phosphate)  <b>MW:</b> 1004.61 g/mol <b>CAS#:</b> [7758-87-4]; [62974-97-4][1306-06-5]  <b>Appearance:</b> White powder, stable in air <b>Taste:</b> Tasteless <b>Odor:</b> Odorless <b>Solubility:</b> Almost insoluble in water Insoluble in alcohol  <b>Shelf Life:</b> 3 Years <b>Storage:</b> Store in cool dry place.	<b>PCHA100</b>	
	Typical	
	<b>Particle Size:</b> 100.0 $\mu\text{m}$ <b>Packed Density:</b> 31lb/ft <sup>3</sup> <b>D90 less than:</b> 80.11 $\mu\text{m}$ <b>D50 less than:</b> 8.22 $\mu\text{m}$	

Chemical/Physical Parameters			ADDITIONAL PARAMETERS	
Analysis	Specification	Typical		
<b>Assay Ca</b>	34.0-40.0 %	38.0 %	Bovine Constituents	None
<b>Arsenic</b>	<3.0 ppm	<1.0 ppm	Recombinant DNA	None
<b>Fluoride</b>	<75.0 ppm	<50.0 ppm	Hormones/Antibiotics	None
<b>Lead</b>	<2.0 ppm	<0.5 ppm	Insecticides	None
<b>Loss on ignition</b>	<10.0 %	5.0 %	GMO's	None
<b>pH</b>	6.0-7.5	7.0	Artificial Colors	None
<b>Held on 140 Mesh.</b>	<0.50 %	0.2 %	Irradiation/Radioactivity	None
<b>Through 325 mesh</b>	>95.0 %	99.0 %	<b>NUTRITIONAL VALUES</b>	
<b>Density (ASG)</b>	0.455-0.548	0.500 g/cc	Fat	None
			Calories	None
			Protein	None
			Vitamins	None
			Carbohydrates	None
			Calcium	34—40%
			Phosphates	55.2—57.2%

Complies with the latest Food Chemical Codex (FCC).

**Main uses:** Flow agent, anti-caking agent, calcium/phosphorus fortification. \*Refer to NEI Application Sheet for additional uses.

**Certifications/Registers:** Halal, Kosher, FDA, SQF Certified Facility.

**Vegetarians:** NEI's TCP is well suited for vegetarians and vegan diets.

**Raw Materials:** NEI uses domestically sourced raw materials low in heavy metals to ensure production of high-quality food grade TCP.

**HACCP:** HACCP practices are followed throughout the manufacturing process to ensure compliance with Good Manufacturing Practices (GMP) Guidelines.

**Product Usage Guideline:** The product is Generally Recognized as Safe (GRAS) when used in conjunction with GMPs.

**Disclaimer:** The values listed above are best estimates of what can be expected to be found in the product due to variability in production methodology.

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