Tricalcium Phosphate

$Ca_3(PO_4)_2$ · CAS 7758-87-4 · Tricalcium phosphate, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Tricalcium phosphate, powder	$Ca_3(PO_4)_2$	7758-87-4	34.0–40.0%
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Complexometric calcium and phosphate titration	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Tricalcium phosphate specified at 34.0–40.0% calcium and 18.0–20.0% phosphorus; the tribasic salt and dicalcium phosphate are different products with different calcium/phosphorus ratios.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Calcium (complexometric)	34.0–40.0%	As stated
Phosphorus (titration)	18.0–20.0%	As stated
Appearance	White to off-white powder	As stated
Identification	Calcium and phosphate conform	As stated
Loss on drying	≤2.0%	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Particle size	≥95% through 80 mesh	As stated
Marker set	Calcium 34.0–40.0%; phosphorus 18.0–20.0%	Identity
Solubility	Insoluble in water; soluble in dilute acids.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder blends
- Toothpaste-grade separation on request

AVAILABLE FORMS

- Powder, 80 mesh
- Granulated on request

PACKING

STORAGE

- 1 kg foil pouch
- 25 kg fiber drum

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

> **Catalog document.** This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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