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CCS B46

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 7300.312-2025

Replacing GB 34457-2017

Feed additives - Part 3:Minerals and their complexes (or chelates) - Tricalcium phosphate

饲料添加剂 第3部分：矿物元素及其络（螯）合物 磷酸三钙

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Table of Contents

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 312 of GB 7300 "Feed Additives". GB 7300 has already published the following parts.

1.Amino acids, amino acid salts and their analogues L-threonine (GB 7300.101);

1.Amino acids, amino acid salts and their analogues, glycine (GB 7300.102);

1.Amino acids, amino acid salts and their analogues, methionine hydroxy analogues (GB 7300.103);

1.Amino acids, amino acid salts and their analogues L-valine (GB 7300.104);

1.Amino acids, amino acid salts and their analogues, taurine (GB 7300.105);

2.Vitamins and Vitamin-like L-ascorbic acid-2-phosphate salts (GB 7300.201);

1 Scope

GB 7300.312-2025 is the Chinese national standard on feed additives - part 3:minerals and their complexes (or chelates) - tricalcium phosphate, in the field of agriculture. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 December 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 January 2027. Classification: ICS 65.120, CCS B46. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document provides the chemical name, molecular formula, and relative molecular

mass of tricalcium phosphate, and specifies the technical requirements for tricalcium phosphate as a feed additive. Requirements, inspection rules, labeling, packaging, transportation, storage and shelf life, and sampling and testing methods are described. This document applies to tricalcium phosphate feed additives produced using high-temperature sintering, chemical precipitation, and phytate hydrolysis processes.

2 Vitamins and Vitamin D

3 Oils (GB 7300.202);

2.Vitamins and Vitamin-like Betaine (GB 7300.203);

2.Vitamins and Vitamin-like Betaine Hydrochloride (GB 7300.204);

2.Vitamins and Vitamin B2-like Riboflavin (Vitamin B2) (GB 7300.205);

2.Vitamins and Vitamin-like Choline Chloride (GB 7300.206);

2.Vitamins and Vitamin-like Nicotinamide (GB 7300.207);

2.Vitamins and Vitamin-like L-Ascorbate Calcium (GB 7300.208);

2.Vitamins and Vitamin B12-like Cyanocobalamin (Vitamin B12) (GB 7300.209);

3.Mineral Elements and Their Complexes (Chelates) - Potassium Iodide (GB 7300.301);

3.Mineral Elements and Their Complexes (Chelates) - Sodium Selenite (GB 7300.302);

3.Mineral Elements and Their Complexes (Chelates) Potassium Iodate (GB 7300.303);

3.Mineral Elements and Their Complexes (Chelates) - Glycine Iron Complex (GB 7300.304);

3.Mineral Elements and Their Complexes (Chelates) - Basic Copper Chloride (GB 7300.305);

3.Mineral Elements and Their Complexes (Chromium Nicotinate) (GB 7300.306);

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4 Chemical name, molecular formula, and relative molecular mass

4.1 Chemical name. Tricalcium phosphate.

4.2 Molecular formula. Ca3(PO4)2.

4.3 Relative molecular mass. 310.18 (based on the 2022 international relative atomic mass).

8 Benzoic acid (GB 7300.804). Preservatives, fungicides and acidity regulators

8.Preservatives, fungicides and acidity regulators (lactic acid) (GB 7300.805);

8.Preservatives, fungicides and acidity regulators, calcium formate (GB 7300.806);

8.Preservatives, fungicides and acidity regulators, calcium citrate (GB 7300.807);

8.Preservatives, fungicides and acidity regulators, sodium diacetate (GB 7300.808);

9.Coloring agent beta-carotene powder (GB 7300.901);

9.Coloring agents beta,beta-carotene-4,4-dione (cantharidin) (GB 7300.902);

10.Monosodium glutamate (MSG), a flavoring and stimulating food ingredient (GB 7300.1001);

10.Allicin, a flavoring and stimulating agent (GB 7300.1002);

10.Flavoring and Enhancing Agent Neomethylhesperidin dihydrochalcone (GB 7300.1003);

13.Other bile acids (GB 7300.1301). This document replaces GB 34457-2017 "Tricalcium Phosphate Feed Additives". Compared with GB 34457-2017, the main differences are structural adjustments and revisions. Aside from the logical changes, the main technical changes are as follows:

---The "Appearance and Characteristics" section has been changed (see 5.1,

3.1 in the.2017 edition);

---The technical specifications for "fluorine" have been changed (see 5.3,

3.2 in the.2017 edition);