

ICS 65.120
CCS B46



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 7300.206-2025

Replacing GB 34462-2017

**Feed additives - Part 2: Vitamins, provitamins and chemically
well-defined substances having similar effects - Choline
chloride**

饲料添加剂 第2部分：维生素及类维生素 氯化胆碱

Issued on: December 31, 2025

Implemented on: January 1, 2027

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

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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 206 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 7300.206-2025 is the Chinese national standard on feed additives - part 2: vitamins, provitamins and chemically well-defined substances having similar effects - choline chloride, 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, relative molecular mass,

and structural formula of choline chloride, and specifies the feed additive choline chloride. The raw materials, technical requirements, inspection rules, labeling, packaging, transportation, storage and shelf life are described, as well as the sampling and testing methods. This document applies to choline chloride aqueous solution, a feed additive produced by reacting trimethylamine hydrochloride aqueous solution with ethylene oxide, and choline chloride aqueous solution. Choline chloride powder is a feed additive made by adding a carrier to an alkaline solution.

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, relative molecular mass, and structural formula

4.1 Chemical Name 2-Hydroxyethyltrimethylammonium chloride.

4.2 Molecular Formula $C_5H_{14}ClNO$.

4.3 Relative Molecular Mass 139.65 (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 34462-2017 "Choline Chloride Feed Additives". Compared with GB 34462-2017, the main differences are in structural adjustments and compilation. Aside from the logical changes, the main technical changes are as follows:
 - The requirements for carriers and anti-caking agents have been removed from the scope (see Chapter 1 of the.2017 edition);
 - Added raw material requirements (see Chapter 5);
 - Added qualitative and quantitative requirements for ion chromatography (arbitration method) (see 8.4.1.6.2 and 8.4.1.6.3) and a single step for processing experimental data. Point calibration calculation formula (see 8.4.1.7);
 - The precision requirements for ion chromatography (arbitration method) have been changed (see 8.1.4.8, 4.4.2.1.5 in the.2017 version);