

ICS 71.040.30

CCS G63



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

GB/T 15896-2024

Replacing GB/T 15896-1995

Chemical reagent - Formic acid

化学试剂 甲酸

Issued on: September 29, 2024

Implemented on: April 1, 2025

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

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Properties

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting is required. This document replaces GB/T 15896-1995 "Chemical Reagent Formic Acid". Compared with GB/T 15896-1995, except for structural adjustments and In addition to editorial changes, the main technical changes are as follows: Added high-purity grades, technical requirements, and determination methods (see Chapter 5 and Chapter 6); - Added the analytically pure (98%) category, and divided analytically pure into Class I and Class II (see Chapter 5); Added technical requirements and test methods for chromaticity and acetic acid (see Chapter 5, 6.3, 6.9); - The technical requirements for evaporation residue and iron have been changed (see Chapter 5,

3.2 of the.1995 edition); - Deleted the technical requirements and test methods for sulfite (see

4.2.4 of the.1995 edition); - The determination method of formic acid has been changed (see 6.2,

4.1 of the.1995 edition); - Added the spectrophotometric determination method for iron (see 6.8.1); - Added the sodium sulfideglycerol colorimetric method for the determination of heavy metals (see 6.10); The packaging and labeling have been changed (see Chapter 8, Chapter 6 of the.1995 edition). Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by the China Petroleum and Chemical Industry Federation. This document is under the jurisdiction of the Chemical Reagents Subcommittee of the National Technical Committee for Chemical Standardization (SAC/TC 63/SC 3). This document was drafted by: Chongqing Wansheng Chuandong Chemical Co., Ltd., Beijing Chemical Reagent Research Institute Co., Ltd., Taizhou Product Quality Management Co., Ltd. Quality Supervision and Inspection Institute, Xinxiang Ruicheng Technology Co., Ltd., and Guangdong Guanghua Technology Co., Ltd. The main

drafters of this document are. Wang Lu, Li Mao, Wang Yuhua, Zhao Jifei, Han Baoying, Wang Aixia, Fan Jiangtao, Lin Yong, Gao Li, and Lin Chuqing. This document was first published in 1995 and this is the first revision. Chemical reagents. formic acid WARNING. Some of the test procedures specified in this document may result in hazardous situations and it is the user's responsibility to take appropriate safety and health measures.

1 Scope

GB/T 15896-2024 is the Chinese national standard on chemical reagent - formic acid, in the field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 29 September 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 April 2025. Classification: ICS 71.040.30, CCS G63. 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 specifies the properties, technical requirements, test methods, inspection rules, packaging and marking of the chemical reagent formic acid. This document applies to the inspection of the chemical reagent formic acid.

Note. The molecular formula of chemical reagent formic acid is HCOOH , the relative molecular mass is 46.03 (according to the 2022 International Relative Atomic Mass), and the CAS number is 64186.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. in this document.

GB/T 601 Preparation of standard titration solutions for chemical reagents

GB/T 602 Preparation of standard solutions for determination of impurities in chemical reagents

GB/T 603 Preparation of preparations and products used in chemical reagent test methods

GB/T 605 General method for colorimetric determination of chemical reagents

GB/T 6682 Specifications and test methods for water used in analytical laboratories

GB/T 9722-2023 General rules for gas chromatography of chemical reagents

GB/T 9728 General method for determination of sulfate in chemical reagents

GB/T 9729 General method for determination of chloride in chemical reagents

GB/T 9735-2008 General method for determination of heavy metals in chemical reagents

GB/T 9739-2006 General method for determination of iron in chemical reagents

GB/T 9740 Chemical reagents General method for determination of evaporation residue

GB 15258 Provisions for the preparation of chemical safety labels

GB 15346 Chemical reagent packaging and marking

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4 Properties

Formic acid is a colorless, transparent liquid with a pungent odor and can be mixed with water, alcohol and ether.