

ICS 71.080.40
CCS G17



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

GB/T 1628-2020

Replacing GB/T 1628-2008

Glacial acetic acid for industrial use

工业用冰乙酸

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Standardization Administration of China**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 1628-2008 "Industrial Glacial Acetic Acid". Compared with GB/T 1628-2008, except for editorial changes The technical changes are as follows:

- The product grade has been cancelled, and the product is divided into two models, I and II (see Chapter 3, Chapter 3 of the.2008 edition);
- Increased propionic acid index (see Table 1);
- Added the technical requirements for Type I and Type II products (see Table 1, Table 1 of the.2008 edition);
- Modified the calculation result of the titration method for determining the acetic acid mass fraction (see 4.4.2.4,.2008 version 4.5.2.4);
- Added Karl Fischer Coulomb's electricity method for determining the mass fraction of water, with Karl Fischer method (general method) as the arbitration method (see 4.5);
- Added gas chromatography external standard method in the determination of formic acid mass fraction (see 4.6.2.5.2);
- Added test method for propionic acid project (see 4.11). This standard was proposed by the China Petroleum and Chemical Industry Federation. This standard is under the jurisdiction of the National Chemical Standardization Technical Committee (SAC/TC63). This standard was drafted by: Jiangsu Thorpe (Group) Co., Ltd., Yankuang Lunan Chemical Co., Ltd., Shanghai Huayi Energy Chemical Co., Ltd., Celanese (Nanjing) Chemical Co., Ltd., Shandong Hualu Hengsheng Chemical Co., Ltd., Tianjin Bohua Yongli Chemical Co., Ltd., He Nanlongyu Coal Chemical Co., Ltd., Kingboard (Hebei) Coking Co., Ltd., Yangzijiang Acetate Chemical Co., Ltd., Nantong Baichuan New Materials Co., Ltd. Division, China Petroleum & Chemical Corporation Beijing Chemical Research Institute. The main drafters of this standard. Hu Zonggui, Ge Lixin, Huang Yu, Liu Qiang, Ling Guozhen, Liu Zhongfa, Liu Yaohua, Lu Jian, Liu Xia, Liu Pintao, Jia Yekui, Hao Yuxia, Qin Ronglin, Li Zhiyuan, Mao Zhiwang, Feng Renqing, Zhang Fujin, Hu Chonglan, Chen Minglei, Zhang Xinglei. This standard replaces GB/T 1628-2008; The previous releases of

GB/T 1628-2008 are.

--- GB/T 1628-1979, GB/T 1628-1989, GB/T 1628.1-2000;

--- GB/T 1628.2-2000;

--- GB/T 1628.3-2000;

--- GB/T 1628.4-2000;

--- GB/T 1628.5-2000;

--- GB/T 1628.6-2000;

1 Scope

GB/T 1628-2020 is the Chinese national standard on glacial acetic acid for industrial use, 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 31 March 2020 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 February 2021. Classification: ICS 71.080.40, CCS G17. 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 standard specifies the technical requirements, test methods, inspection rules and signs, packaging, transportation and storage of glacial acetic acid for industrial use. This standard applies to the production, inspection and sale of glacial acetic acid for industrial use. Molecular formula. C_2H_4O

2 Relative molecular mass. 60.05 (according to 2016 international relative atomic mass)

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article. For the cited documents without date, the latest version (including all amendments) applies to this document.

GB 190 Dangerous Goods Packaging Mark Preparation of

GB/T 601 chemical reagent standard titration solution

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

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

GB/T 3049 General method for determination of iron content in industrial chemical products
1,10-phenanthroline spectrophotometry

GB/T 3143 Color Determination Method for Liquid Chemical Products (Hazen Unit
--- Platinum-Cobalt Color Number)

GB/T 3723 Safety General Rules for Sampling of Industrial Chemical Products

GB/T 6283 Determination of water content in chemical products Karl Fischer method
(general method)

GB/T 6324.2 Test methods for organic chemical products Part 2. Determination of dry
residue after evaporation on volatile organic liquid water bath

GB/T 6324.8 Test Methods for Organic Chemical Products Part 8. Determination of
Moisture in Liquid Products Karl Fischer Coulometric Method

GB/T 6678 General Principles of Sampling for Chemical Products

GB/T 6680 General Rules for Sampling of Liquid Chemical Products

3 Technical requirements

3.1 Appearance. transparent liquid, no suspended matter and mechanical impurities.