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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 26324-2025

Replacing GB/T 26324-2010

1-Hydroxyethylidene-1,1-diphosphonic acid

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Standardization Administration of the PRC

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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 replaces GB/T 26324-2010 "Hydroxyethylidene Diphosphonic Acid". Compared with GB/T 26324-2010, except for structural adjustments and... Aside from editorial modifications, the main technical changes are as follows:

a) A full-text warning has been added (see Warnings);

b) Added terms and definitions (see Chapter 3);

c) The requirement for the integral area of the characteristic spectrum has been increased (see Table 1);

d) The indicator requirements have been changed (see Table 2, Table 1 in the.2010 version);

e) Added structural identification (see 6.3);

f) The method for determining the active ingredient has been changed (see 6.4,

4.2 of the.2010 edition);

g) A method for determining arsenic content has been added (see 6.12);

h) The marking requirements have been changed (see 8.1,

6.1 in the.2010 edition). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Petroleum and Chemical Industry Federation. This document is under the jurisdiction of the National Technical Committee on Chemical Standardization (SAC/TC63). This document was drafted by: Jiyuan Qingyuan Water Treatment Co., Ltd., Shandong Taihe Technology Co., Ltd., and Nantong Lianlin Chemical Co., Ltd. Company, CNOOC Tianjin Chemical Research and Design Institute Co.,

Ltd., Guangzhou Special Equipment Inspection and Research Institute, Shandong Xintai Water Treatment Technology Co., Ltd. Company, Shandong Kerry Chemical Co., Ltd., Ansteel Kurita (Anshan) Water Treatment Co., Ltd., Hebei Zhongtian Lanqing Environmental Technology Co., Ltd., Tianjin Zheng Da Technology Co., Ltd. and Nanjing Yushui Technology Co., Ltd. The main drafters of this document are. Zhang Gaofeng, Li Cui, Liang Rong, Bai Ying, Du Yuhui, Cui Jin, Sun Baoji, Zhang Haiming, Zhao Qingshun, Chen Wei, and Sun Hui. This document was first published in.2010, and this is its first revision. Hydroxyethylidene diphosphonic acid Warning. Hydroxyethylidene diphosphonic acid belongs to Class 8 corrosive substances as specified in GB 6944-2012.The strong acids and strong... (The sentence is incomplete and requires further context to be translated accurately.) Alkali is corrosive; avoid inhalation or skin contact during use. If splashed on the skin, immediately rinse with plenty of water; seek medical attention immediately if the condition is severe.

1 Scope

GB/T 26324-2025 is the Chinese national standard covering HEDP as a commercial product - the active acid content, the phosphorous and phosphoric acid impurities, the chloride and iron, the colour and density, for the scale inhibitor used in nearly every cooling water system. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 26324-2010.

This document specifies the requirements, inspection rules, marking, packaging, transportation, and storage of hydroxyethylidene diphosphonic acid (HEDP), and describes the relevant... The corresponding test method. This document applies to hydroxyethylidene diphosphonic acid (HEDP).

Note. This product is mainly used as a scale and corrosion inhibitor in industrial water treatment, and can also be used as a chelating agent in textile printing and dyeing, and as an additive in daily chemical products.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB 190 Packaging Marks for Dangerous Goods

GB/T 191 Packaging and Storage Graphic Symbols

GB/T 601 Preparation of Standard Titration Solutions for Chemical Reagents

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

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

GB/T 6678 General Rules for Sampling of Chemical Products

GB/T 6682-2008 Specifications and test methods for water used in analytical laboratories

GB/T 8170 Rules for rounding off numerical values and the representation and determination of limiting values

GB/T 22592 General Rules for Determination of pH Value of Water Treatment Agents

GB/T 22594-2018 General Rules for Determination of Density of Water Treatment Agents

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 The maximum mass of calcium ions chelated per unit mass of product.