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

GB/T 1289-2022

Replacing GB/T 1289-1994

Chemical reagent - Sodium oxalate

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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. This document replaces GB/T 1289-1994 "Chemical Reagent Sodium Oxalate". In addition to editorial changes, the main technical changes are as follows:

- Changed the technical requirements of the content, the technical requirements of superior grades were increased from " $\geq 99.8\%$ " to " $\geq 99.9\%$ " (see Chapter 5, 1994 version 3.1);
 - Added the technical requirements and determination methods of two superior grades of magnesium and calcium (see Chapter 5, 6.10, 6.12);
 - Increased the determination method of potassium inductively coupled plasma atomic emission spectrometry (see 6.11.1);
 - Changed the sample weight of the flame atomic absorption spectrometry method for potassium (see 6.11.2, 4.3.7 of the 1994 edition);
 - Added the method for the determination of iron inductively coupled plasma atomic emission spectrometry (see 6.13.1);
 - Changed the inspection rules (see Chapter 7, Chapter 5 of the 1994 edition);
 - Changed the packaging and markings (see Chapter 8, Chapter 6 of the 1994 edition).
- Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents. This document is proposed by China Petroleum and Chemical Industry Federation. This document is under the jurisdiction of the National Chemical Standardization Technical Committee (SAC/TC63). This document was drafted by: Nanjing Guoyuan Standard Technology Service Co., Ltd.,

Guangdong Guangshi Reagent Technology Co., Ltd., Taizhou Product Quality Supervision and Inspection Institute, Suzhou Pengran Technology Co., Ltd., Shandong Product Quality Inspection Research Institute. The main drafters of this document. Li Min, Cao Juan, Qian Hui, Wu Ronghui, Wang Aixia, Du Bohui, Wang Jie, Qiu Ailing, Gao Li. This document was first published in 1965, revised for the first time in 1977, revised for the second time in 1994, and this is the third revision. Chemical Reagent Sodium Oxalate

1 Scope

GB/T 1289-2022 is the Chinese national standard on chemical reagent - sodium oxalate, 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 30 December 2022 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 2023. 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 signs of the chemical reagent sodium oxalate. This document applies to the inspection of the chemical reagent sodium oxalate.

Note. The molecular formula of the chemical reagent sodium oxalate is $\text{Na}_2\text{C}_2\text{O}_4$, the relative molecular mass is 134.00 (according to the international relative atomic mass in 2018), CAS number. 62- 76-0.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document. Preparation of

GB/T 601 Chemical Reagent Standard Titration Solution

GB/T 602 Preparation of Standard Solution for Determination of Impurities in Chemical Reagents Preparation of preparations and products used in

GB/T 603 test methods for chemical reagents

GB/T 609 General method for the determination of total nitrogen content of chemical reagents

GB/T 6682 Analytical laboratory water specifications and test methods

GB/T 9723-2007 General rules for chemical reagent flame atomic absorption spectrometry

GB/T 9724 General Rules for Determination of pH Value of Chemical Reagents

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

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

GB/T 9737-2008 General rules for the determination of easily carbonized substances in chemical reagents

GB/T 9738 General method for the determination of water-insoluble substances in chemical reagents

GB 15346 Chemical Reagent Packaging and Marking

GB/T 23942-2009 General rules for chemical reagents inductively coupled plasma atomic emission spectrometry

3 Terms and Definitions

This document does not have terms and definitions that need to be defined.

4 Traits

This reagent is white crystalline powder, soluble in water, insoluble in ethanol.

5 Technical Requirements

See Table 1 for the technical requirements of sodium oxalate.