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

GB/T 623-2024

Replacing GB/T 623-2011

Chemical reagent-Perchloric acid

化学试剂 高氯酸

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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 is required.

This document replaces GB/T 623-2011 "Chemical reagent perchloric acid". Compared with GB/T 623-2011, except for the structural adjustment and compilation In addition to logical changes, the main technical changes are as follows.

The determination methods of manganese, iron, copper, silver and lead have been changed (see 6.14, 5.14, 5.15, 5.16, 5.17, 5.18);

The packaging and labeling have been changed (see Chapter 8, Chapter 7 of the 2011 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: Guangdong Guangshi Reagent Technology Co., Ltd., Beijing Chemical Reagent Research Institute Co., Ltd., Guangdong Guanghua Technology Co., Ltd., Cangzhou Xinyuanquan Chemical Co., Ltd., and Shanghai Aladdin Biochemical Technology Co., Ltd.

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This document was first issued in 1965, revised for the first time in 1977, revised for the second time in 1992, and revised for the third time in 2011. Fourth revision.

Chemical reagents. Perchloric 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

This document specifies the properties, technical requirements, test methods, inspection rules, packaging and marking of the chemical reagent perchloric acid.

This document applies to the inspection of the chemical reagent perchloric acid.

Note. The molecular formula of chemical reagent perchloric acid is HClO_4 , the relative molecular mass is 100.45 (according to the 2022 International Relative Atomic Mass), and the CAS number is 7601-90-3.

2 Normative references

GB/T 601

GB/T 602

GB/T 603

GB/T 605

GB/T 610-2008

GB/T 6682

GB/T 9723-2007

GB/T 9727

GB/T 9728

GB/T 9729

GB/T 9741-2008

GB/T 9742

GB 15258

GB 15346

GB/T 23942-2009

3 Terms and definitions

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

4 Properties

Perchloric acid is a colorless, transparent liquid with strong corrosiveness and oxidizing properties. It is very likely to explode when in contact with organic matter or metal powders or when heated.

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