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Chlorotrifluoroethene

三氟氯乙烯

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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. 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 National Gas Standardization Technical Committee (SAC/TC 206). This document was drafted by: Zhejiang Chemical Industry Research Institute Co., Ltd., Chenzhou Sinochem Fluorine Source New Materials Co., Ltd.,

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1 Scope

GB/T 44332-2024 is the Chinese standard for chlorotrifluoroethylene, the monomer from which PCTFE and a family of fluoroelastomers and specialty fluids are made. Its specification is dominated by polymerisation behaviour: the monomer must be free of the oxygen, moisture and inhibitor residues that kill a polymerisation or shift the molecular weight, and free of the isomeric and saturated impurities that end-cap chains, so the impurity ceilings rather than the assay are what the purchaser is buying. The standard sets the technical requirements, the assay and the limits on each impurity, the acidity, the moisture and the non-volatile residue, then the sampling, which for a liquefied gas under pressure is itself a procedure, and the test methods, principally gas chromatography with the columns and conditions specified together with the moisture and acidity determinations; it then sets the inspection rules and the marking, packaging, transport and storage, including the requirements on the cylinders and the inhibitor. It took effect on 23 August 2024.

This document specifies the technical requirements, sampling, test methods, inspection rules, marking, packaging, filling, transportation, storage and other aspects of chlorotrifluoroethylene. The safety information of chlorotrifluoroethylene is provided as required. This document applies to chlorotrifluoroethylene prepared from 1,1,2-trichlorotrifluoroethane.

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 190 Dangerous Goods Packaging Marking

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

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

GB/T 3634.2 Hydrogen Part

3 Terms and definitions

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