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

GB/T 3406-2025

Replacing GB/T 3406-2010

Petroleum toluene

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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 3406-2010 "Petroleum Toluene". Compared with GB/T 3406-2010, the main differences are structural adjustments and editorial changes. In addition, the main technological changes are as follows:

a) The color test method ASTM D1209 has been deleted, and the test method GB/T 6324.6 has been added as the arbitration method (see table).

1 Scope

GB/T 3406-2025 is the Chinese national standard covering petroleum-derived toluene as sold - the purity and the distillation range, the colour and the acid wash colour, the sulfur and the non-aromatics, and the bromine index that tells a downstream user how much olefin came through. Issued on 5 October 2025, it has been in force since 1 May 2026, replacing GB/T 3406-2010.

b) Change the purity test method to NB/SH/T 6057 (see Table 1, 2010 version);

c) The test method for hydrocarbon impurity content, ASTM D6526, was deleted, and the test method NB/SH/T 6057 was added as the arbitration method. (See Table 1, 2010 edition);

d) The test methods for total sulfur content have been expanded to include GB/T 34100 and SH/T 1820, and the arbitration method has been changed to GB/T 34100 (see GB/T 34100). Table 1 (2010 edition of Table 1);

e) Change the bromine index indicator to "Report" (see Table 1, 2010 edition);

f) The inspection rules were changed; the evaporation residue test was changed to periodic

inspection, to be measured at least once every six months (see Chapter 6,.2010). Chapter 5 of the 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 and is under the jurisdiction of the National Technical Committee on Standardization of Petroleum Products and Lubricants (SAC/TC280). This document was drafted by: Sinopec Research Institute of Petroleum Processing Co., Ltd., and China Petroleum & Chemical Corporation Jinling Branch. Sinopec Shanghai Petrochemical Co., Ltd., PetroChina Lanzhou Petrochemical Branch, Ningxia Baoting New Materials Technology Co., Ltd. The main drafters of this document are: Han Hongling, Yang He, Fan Xiaojuan, Qian Senzhi, Cheng Ye, Liu Qian, and Wang Yu. This document was first published in 1982, revised for the first time in 1990, revised for the second time in 2010, and this is the third revision. Petroleum toluene Warning

---If appropriate precautions are not taken, the products described in this document may pose a hazard during production, storage, transportation, and use. Risk. This document is not intended to make recommendations on all safety issues related to this product. Users are responsible for establishing appropriate safety protocols before using this document. Safety and security measures, and determine the applicability of relevant regulatory restrictions.

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 511 Petroleum and Petroleum Products and Additives - Determination of Mechanical Impurities

GB/T 1816 Neutral Test for Benzene Products

GB/T 2012 Aromatic Hydrocarbon Pickling Test Method

GB/T 2013 Determination of density of benzene products

GB/T 3143 Determination of color of liquid chemical products (Hazen units - platinum-cobalt color code)

GB/T 3144 Gas Chromatographic Determination of Hydrocarbon Impurities in Toluene

GB/T 3209 Determination of Evaporation Residue of Benzene Products

GB/T 4756 Manual Sampling Method for Petroleum Liquids

GB/T 6324.6 Test methods for organic chemical products - Part

6 Determination of color of liquids - Tristimulus value colorimetric method

GB 30000.1 Standard for Classification and Labelling of Chemicals Part

7 Flammable Liquids

GB 30000.18 Chemical Classification and Labelling Specifications Part

18 Acute Toxicity

GB/T 34100 Determination of total sulfur content in light hydrocarbons, engine fuels and other petroleum products by ultraviolet fluorescence method NB/SH/T 0164 Rules for Packaging, Storage, Transportation and Delivery Acceptance of Petroleum and Related Products NB/SH/T 0253 Determination of Total Sulfur Content in Light Petroleum Products by Coulomb Method NB/SH/T 6057 Determination of purity and hydrocarbon impurities in petroleum benzene, petroleum toluene, and mixed petroleum xylenes by gas chromatography-available carbon Number method SH/T 0604 Determination of density of crude oil and petroleum products (U-tube method) SH/T 0630 Determination of Bromine Value and Bromine Index in Petroleum Products (Electrophoresis Method) SH/T 0689 Determination of Total Sulfur Content in Light Hydrocarbons, Engine Fuels, and Other Petroleum Products (Ultraviolet Fluorescence Method) SH/T 1551 Determination of the bromine index in aromatic hydrocarbons by electrotitration SH/T 1767 Determination of Bromine Index of Industrial Aromatic Hydrocarbons by Potentiometric Titration