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Designation: D5471 - 16 D5471 - 17

Standard Specification for O-Xylene 980¹

This standard is issued under the fixed designation D5471; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope*Scope

1.1 This specification covers a grade of *o-xyleneo-xylene* identified as *ortho-Xyleneortho-Xylene* 980.

1.2 The following applies to all specified limits in this specification: for purposes of determining conformance with this specification, an observed value or a calculated value shall be rounded off to the nearest unit in the last right-hand digit used in expressing the specification limit, in accordance with the rounding-off method of Practice E29.

1.3 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.4 Consult current OSHA regulations and supplier's Safety Data Sheets, and local regulations for all materials used in this specification.

<u>1.5 This international standard was developed in accordance with internationally recognized principles on standardization</u> established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards:²

D850 Test Method for Distillation of Industrial Aromatic Hydrocarbons and Related Materials D1492 Test Method for Bromine Index of Aromatic Hydrocarbons by Coulometric Titration

D3437 Practice for Sampling and Handling Liquid Cyclic Products

D3797 Test Method for Analysis of o-Xylene by Gas Chromatography (Withdrawn 2014)³

D5386 Test Method for Color of Liquids Using Tristimulus Colorimetry

D5776 Test Method for Bromine Index of Aromatic Hydrocarbons by Electrometric Titration

D7504 Test Method for Trace Impurities in Monocyclic Aromatic Hydrocarbons by Gas Chromatography and Effective Carbon Number

D8005 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale) 4bbc-b05d-4d351bcc1fae/astm-d5471-17

E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

E2680 Test Method for Appearance of Clear, Transparent Liquids (Visual Inspection Procedure)

2.2 Other Document:⁴

OSHA Regulations, 29 CFR Paragraphs 1910.1000 and 1910.1200

3. Properties

3.1 O-Xylene 980 shall conform to the following requirements:

Property	Specification	ASTM Test Method ^A
Purity, min, wt %	- 98.0	D3797 or D7504
Nonaromatic hydrocarbons, max, wt %	- 0.5	D3797 or D7504
p-Xylene plus m-Xylene, max, wt %		D3797 or D7504

¹ This specification is under the jurisdiction of ASTM Committee D16 on Aromatic Hydrocarbons Aromatic, Industrial, Specialty and Related Chemicals and is the direct responsibility of Subcommittee D16.01 on Benzene, Toluene, Xylenes, Cyclohexane and Their Derivatives.

³ The last approved version of this historical standard is referenced on www.astm.org.

*A Summary of Changes section appears at the end of this standard

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

⁴ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, http:// www.access.gpo.gov.