

Designation: D5471 - 10 D5471 - 16

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 (\$\epsilon\$) indicates an editorial change since the last revision or reapproval.

1. Scope*

- 1.1 This specification covers a grade of o-xylene identified as ortho-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 Material supplier's Safety Data Sheets, and local regulations for all materials used in this specification.

2. Referenced Documents

2.1 ASTM Standards:²

D850 Test Method for Distillation of Industrial Aromatic Hydrocarbons and Related Materials

D1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)

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D3797 Test Method for Analysis of o-Xylene by Gas Chromatography (Withdrawn 2014)³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

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

2.2 Other Document: 4 iteh.ai/catalog/standards/sist/f89c22ff-c8e8-490f-8e56-1351a5a3aff4/astm-d5471-16

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 %	1.3	D3797 or D7504
C9 and heavier aromatics, max, wt %	0.8	D3797 or D7504
Cumene, wt % ^B	0.5	D3797 or D7504
Bromine index, max mg/100 g	100	D1492 or D5776
Appearance	C	

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

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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 standard's Document Summary page on the ASTM website.

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

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.