



Designation: ~~D5471-04~~^{ε1} Designation: D5471 - 10

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.

~~ε¹Note—Section 3 editorially corrected in March 2005.~~

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 Consult current OSHA regulations~~

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 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](#)

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](#)

E29 [Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications](#)

2.2 *Other Document:*³

~~OSHA Regulations 29CFR, Paragraphs 1910.1000 and 1910.1200~~ 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 ⁴
Purity, min, wt %	98.0	D3797
Purity, min, wt %	98.0	D3797 or D7504
Nonaromatic hydrocarbons, max, wt %	0.5	D3797
Nonaromatic hydrocarbons, max, wt %	0.5	D3797 or D7504
p-Xylene plus m-Xylene, max, wt %	1.3	D3797

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.

Current edition approved Dec. 1, 2004. Published January 2005. Originally approved in 1993. Last previous edition approved in 2003 as D5471-97(2003). DOI: 10.1520/D5471-04E01 on Benzene, Toluene, Xylenes, Cyclohexane and Their Derivatives.

Current edition approved Feb. 15, 2010. Published April 2010. Originally approved in 1993. Last previous edition approved in 2004 as D5471-04 ^{ε1}. DOI: 10.1520/D5471-10.

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.

³ 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>.

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