



Designation: D843 – 06 (Reapproved 2011)^{ε1} D843 – 16

Standard Specification for Nitration Grade Xylene¹

This standard is issued under the fixed designation D843; 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.

^{ε1} NOTE—This standard was brought up to date with the editorial guidelines in February 2011.

1. Scope*

1.1 This specification covers nitration grade xylene.

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

1.3 The values stated in SI units are to be regarded as standard. The values given in parentheses are for information only.

1.4 Consult OSHA regulations, ~~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

- D848 Test Method for Acid Wash Color of Industrial Aromatic Hydrocarbons
- D849 Test Method for Copper Strip Corrosion by Industrial Aromatic Hydrocarbons
- D850 Test Method for Distillation of Industrial Aromatic Hydrocarbons and Related Materials
- ~~D1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)~~
- D3437 Practice for Sampling and Handling Liquid Cyclic Products
- D5386 Test Method for Color of Liquids Using Tristimulus Colorimetry
- D6563 Test Method for Benzene, Toluene, Xylene (BTX) Concentrates Analysis by Gas Chromatography
- ~~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:*

OSHA Regulations, 29 CFR paragraphs 1910.1000 and 1910.1200³

3. Properties

3.1 Nitration grade xylene shall conform to the following requirements:

Property	Specification	ASTM Test Method ⁴
Nonaromatic hydrocarbons, max, volume %	4.0	D6563
Acid wash color, max	pass with 6	D848
Copper corrosion	pass (1A or 1B)	D849
Appearance	B	...
Color, Pt/Co scale, max	20	D1209 or
		D5386
Color, Pt/Co scale, max	20	D5386 or
		D8005

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 Feb. 1, 2011; June 1, 2016. Published November 2011; June 2016. Originally approved in 1945. Last previous edition approved in 2006/2011 as D843 – 06 (2011)^{ε1}. DOI: 10.1520/D0843-06R11E1-10.1520/D0843-16.

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