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# Standard Specification for Nitration Grade Xylene<sup>1</sup>,<sup>2</sup>

This standard is issued under the fixed designation D 843; 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 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 E 29.
- 1.3 Consult OSHA regulations, supplier's Material Safety Data Sheets, and local regulations for all materials used in this specification.

#### 2. Referenced Documents

- 2.1 ASTM Standards:
- D 848 Test Method for Acid Wash Color of Industrial Aromatic Hydrocarbons<sup>3</sup>
- D 849 Test Method for Copper for Corrosion of Industrial Aromatic Hydrocarbons<sup>3</sup>
- D 850 Test Method of Distillation of Industrial Aromatic Hydrocarbons and Related Materials<sup>3</sup>
- D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)<sup>3</sup>
- D 2360 Test Method for Trace Impurities in Monocyclic Aromatic Hydrocarbons by Gas Chromatography<sup>3</sup>
- D 3437 Practice for Sampling and Handling Liquid Cyclic Products<sup>3</sup>

- E 29 Practrice for Using Significant Digits in Test Data to Determine Conformance with Specifications<sup>4</sup>
- 2.2 Other Document:
- OSHA Regulations 29 CFR, paragraphs 1910.1000 and 1910.1200<sup>5</sup>

## 3. Properties

3.1 Nitration grade xylene shall conform to the following requirements:

		ASTM Test
Property	Specification	Method
Nonaromatic hydrocarbons, max, volume %	4.0	D 2360
Acid wash color, max	pass with 6	D 848
Copper corrosion	pass (1A or 1B)	D 849
Appearance	Α	
Color, Pt/Co scale, max	20	D 1209 or D 5386
Distillation range at 101.3 kPa (760 mm Hg pressure), max,° C	5	D 850
Initial distillation temperature, min,° C	137	D 850
Dry point, max,° C	143	D 850

<sup>&</sup>lt;sup>A</sup>Clear liquid free of sediment and haze when observed at 18.3 to 25.6°C (65 to 78°F).

## 4. Sampling

4.1 The material shall be sampled in accordance with Practice D 3437.

## 5. Keywords

5.1 xylene

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D 5386 Test Method for Color of Liquids Using Tristimulus Colorimetry<sup>3</sup>

<sup>&</sup>lt;sup>1</sup> This specification is under the jurisdiction of ASTM Committee D-16 on Aromatic Hydrocarbons and Related Chemicals and is the direct responsibility of Subcommittee D16.0A on BTX, Cyclohexane, and Their Derivatives.

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<sup>&</sup>lt;sup>2</sup> This material was formerly known as "3° xylol."

<sup>&</sup>lt;sup>3</sup> Annual Book of ASTM Standards, Vol 06.04.

<sup>&</sup>lt;sup>4</sup> Annual Book of ASTM Standards, Vol 14.02.

<sup>&</sup>lt;sup>5</sup> Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.