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Standard Specification for Toluene for Toluene Diisocyanate (TDI) Feedstock¹

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1. Scope

1.1 This specification covers toluene for toluene diisocyanate (TDI) feedstock.

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 E 29.

1.3 Consult OSHA regulations and suppliers' material safety data sheets for all materials used in this specification.

1.4 The values stated in SI units are to be regarded as the standard.

2. Referenced Documents

- 2.1 ASTM Standards:
- D 848 Test Method for Acid Wash Color of Industrial Aromatic Hydrocarbons²
- D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)²
- D 2360 Test Method for Trace Impurities in Monocyclic Aromatic Hydrocarbons by Gas Chromatography²
- D 3437 Practice for Sampling and Handling Cyclic Products²

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¹ 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 Benzene, Toluene, Xylenes, Cyclohexane, and Their Derivatives.

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² Annual Book of ASTM Standards, Vol 06.04.

D 5386 Test Method for Color Using Tristimulus Colorimetry²

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications³

2.2 Other Document:

OSHA Regulations, 29 CFR, paragraphs 1910.1000 and 1910.1200^4

3. Properties

3.1 Toluene for TDI feedstock shall conform to the following requirements:

Property	Specification	ASTM Test Method
Purity, min, wt%	99.9	D 2360
Acid wash color, max	pass with 2	D 848
Benzene, max, mg/kg	300	D 2360
Nonaromatics, max, wt %	0.1	D 2360
Ethylbenzene, max, mg/kg	300	D 2360
Xylenes, max, mg/kg	500	D 2360
Appearance	Α	
Color, max, Pt-Co scale	10	D 1209 or D5386
^A Clear liquid free of sediment and haze when observed at 18.3 to 25.6°C (65 to		
78°F).		Ϋ́Υ,

4. Sampling

4.1 Sample the material in accordance with Practice D 3437. $_{\odot}$

5. Keywords)a-bac4-968904ba2311/astm-d5606-98

5.1 impurities in toluene; toluene; toluene diisocyanate feedstock

³ Annual Book of ASTM Standards, Vol 14.02.

⁴ Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

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