



Designation: D 362 - 75

Standard Specification for INDUSTRIAL GRADE TOLUENE^{1, 2}

This Standard is issued under the fixed designation D 362; 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 reappraisal.

1. Scope

1.1 This specification covers industrial grade toluene.

2. Applicable Documents

2.1 ASTM Standards:

D 268 Sampling and Testing Volatile Solvents for Use in Paint, Varnish, Lacquer, and Related Products³

D 270 Sampling Petroleum and Petroleum Products⁴

D 847 Test for Acidity of Benzene, Toluene, Xylenes, Solvent Naphthas, and Similar Industrial Aromatic Hydrocarbons³

D 848 Test for Acid Wash Color of Industrial Aromatic Hydrocarbons³

D 849 Test for Copper Corrosion of Industrial Aromatic Hydrocarbons³

D 850 Test for Distillation of Industrial Aromatic Hydrocarbons and Related Materials³

D 853 Test for Hydrogen Sulfide and Sulfur Dioxide Content (Qualitative) of Industrial Aromatic Hydrocarbons³

D 891 Tests for Specific Gravity of Industrial Aromatic Hydrocarbons and Related Materials³

D 941 Text for Density and Specific Gravity of Liquids by Lipkin Bicapillary Pycnometer⁴

D 1078 Test for Distillation Range of Volatile Organic Liquids³

D 1133 Test for Kauri-Butanol Value of Hydrocarbon Solvents³

D 1209 Test for Color of Clear Liquids (Platinum-Cobalt Scale)³

D 1296 Test for Odor of Volatile Solvents and Diluents³

D 1298 Test for Density, Specific Gravity,

or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method⁴

D 1364 Test for Water in Volatile Solvents (Fischer Reagent Titration Method)³

D 1613 Test for Acidity in Volatile Solvents and Chemical Intermediate Used in Paint, Varnish, Lacquer, and Related Products³

D 1616 Test for Copper Corrosion by Mineral Spirits (Copper Strip Test)³

E 1 Specification for ASTM Thermometers⁵

3. Properties

3.1 Industrial grade toluene shall conform to the following requirements:

Specific gravity	0.864 to 0.874
15.56/15.56°C (60/60°F)	
20/20°C ^a	0.860 to 0.870
(68/68°F)	
25/25°C ^a	0.858 to 0.868
(77/77°F)	
Color	not darker than 20 max on the platinum-cobalt scale (Method D 1209).
Distillation range at 760 mm Hg pressure	
total distillation	not more than 2°C from initial boiling point to dry point, including the temperature of 110.6°C

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.OA on BTX, Cyclohexane, and Their Derivatives.

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² This material was formerly known as "industrial pure toluol."

³ Annual Book of ASTM Standards, Part 29.

⁴ Annual Book of ASTM Standards, Part 23.

⁵ Annual Book of ASTM Standards, Parts 25 and 44.