

Standard Specifications for INDUSTRIAL GRADE XYLENE^{1,2}



ASTM Designation: D 844 - 50

ADOPTED, 1947; REVISED, 1950.³

This Standard of the American Society for Testing Materials is issued under the fixed designation D 844; the final number indicates the year of original adoption as standard or, in the case of revision, the year of last revision.

Scope

1. These specifications cover industrial grade xylene.

Properties

2. Industrial grade xylene shall conform to the following requirements:

Specific gravity, 15.56/15.56 C.	0.850 to 0.870
Color.....	not darker than a solution of 0.0030 g. of $K_2Cr_2O_7$ in 1 liter of water
Distillation range at 760 mm. pressure:	
Percentage recovered at 130 C.....	not more than 5
Percentage recovered at 145 C.....	not less than 90
End point (dry point)....	not above 155 C.
Acid wash color.....	not darker than No. 10 color standard
Acidity	no free acid; that is, no evidence of acidity
Sulfur compounds	free of H_2S and SO_2
Copper corrosion	copper strip shall not show iridescence nor a gray or black deposit or discoloration

Methods of Testing

3. The material shall be sampled and the properties enumerated in these specifications shall be determined in accordance with the following methods of the American Society for Testing Materials:

(a) *Sampling*.—Tentative Methods of Sampling Petroleum and Petroleum Products (A.S.T.M. Designation: D 270).^{3a}

(b) *Specific Gravity*.—Tentative Methods of Test for Specific Gravity of Industrial Aromatic Hydrocarbons (A.S.T.M. Designation: D 891).⁴

(c) *Color*.—Standard Methods of Test for Color, and Hydrogen Sulfide and Sulfur Dioxide (Qualitative) of Industrial Aromatic Hydrocarbons (A.S.T.M. Designation: D 853).⁴

(d) *Distillation*.—Standard Method of Test for Distillation of Industrial Aromatic Hydrocarbons (A.S.T.M. Designation: D 850),⁵ using either an ASTM Solvents Distillation Thermometer 42C having a range of 95 to 225 C. and conforming to Specifications E 1⁵ or the thermometer described in Section 2 (b) item (2) of Method D 850.

(e) *Acid Wash Color*.—Standard

¹ Under the standardization procedure of the Society, these specifications are under the jurisdiction of the A.S.T.M. Committee D-16 on Industrial Aromatic Hydrocarbons.

² This material was formerly known as "industrial xylol."

³ Prior to adoption as standard, these specifications were published as tentative from 1945 to 1947.

^{3a} See p. 349.

⁴ 1949 Book of ASTM Standards, Part 5.

⁵ Appears in this publication, see Contents in Numeric Sequence of A.S.T.M. Designations at front of book.