



Designation: D4790 – 20

# Standard Terminology of Aromatic Hydrocarbons and Related Chemicals<sup>1</sup>

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## 1. Referenced Documents

### 1.1 ASTM Standards:<sup>2</sup>

**D835** Specification for Refined Benzene-485 (Withdrawn 1997)<sup>3</sup>

**D841** Specification for Nitration Grade Toluene

**D843** Specification for Nitration Grade Xylene

**D846** Specification for Ten-Degree Xylene (Withdrawn 1989)<sup>3</sup>

**D847** Test Method for Acidity of Benzene, Toluene, Xylenes, Solvent Naphthas, and Similar Industrial Aromatic Hydrocarbons

**D848** Test Method for Acid Wash Color of Industrial Aromatic Hydrocarbons

**D1015** Test Method for Freezing Points of High-Purity Hydrocarbons (Withdrawn 2019)<sup>3</sup>

**D1016** Test Method for Purity of Hydrocarbons from Freezing Points (Withdrawn 2019)<sup>3</sup>

**D1129** Terminology Relating to Water

**D1298** Test Method for Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method

**D1492** Test Method for Bromine Index of Aromatic Hydrocarbons by Coulometric Titration

**D1840** Test Method for Naphthalene Hydrocarbons in Aviation Turbine Fuels by Ultraviolet Spectrophotometry

**D2031** Test Method for Reducing Substances in Refined Pyridine (Withdrawn 2003)<sup>3</sup>

**D2121** Test Methods for Polymer Content of Styrene Monomer

**D2147** Method of Test for Detection and Estimation of Water-Insoluble Impurities in Refined Phenol by Cloud

Point Depression (Withdrawn 1979)<sup>3</sup>

**D2269** Test Method for Evaluation of White Mineral Oils by Ultraviolet Absorption

**D2279** Method of Test for Acid Wash Color of Refined Naphthalene (Withdrawn 1982)<sup>3</sup>

**D2323** Specification for Refined Pyridine (1 Degree) (Withdrawn 2003)<sup>3</sup>

**D2359** Specification for Refined Benzene-535

**D2403** Specification for Refined Phthalic Anhydride-1308 (Withdrawn 2008)<sup>3</sup>

**D2777** Practice for Determination of Precision and Bias of Applicable Test Methods of Committee D19 on Water

**D2827** Specification for Styrene Monomer

**D2935** Test Method for Apparent Density of Industrial Aromatic Hydrocarbons (Withdrawn 2005)<sup>3</sup>

**D3980** Practice for Interlaboratory Testing of Paint and Related Materials (Withdrawn 1998)<sup>3</sup>

**D4053** Test Method for Benzene in Motor and Aviation Gasoline by Infrared Spectroscopy (Withdrawn 2013)<sup>3</sup>

**D4734** Specification for Refined Benzene-545

**E12** Terminology Relating to Density and Specific Gravity of Solids, Liquids, and Gases (Withdrawn 1996)<sup>3</sup>

## 2. Terminology

**absorbance, *n***—the logarithm to the base 10 of the reciprocal of the relative transmittance, *T*, expressed as:

$$A = \log_{10} (1/T) = -\log_{10} T \quad (1)$$

**D1840, D2269, D4053; D02**

**accuracy, *n***—the agreement between the mean of a series of repeated measurements of a property and the accepted reference value of the property. **D3980; D01**

**acidity, *n***—the number of milligrams of sodium hydroxide consumed when 100 mL of the sample are titrated under the conditions prescribed in this method. **D847; D16**

**acid reaction, *n***—a characteristic of materials producing the acid-color of the indicator used under the conditions prescribed in this method. **D847; D16**

**acid wash color, *n***—the color developed in the separated acid when a sample is agitated with sulfuric acid under the condition prescribed in this method. **D848; D2279; D16**

<sup>1</sup> This terminology is under the jurisdiction of ASTM Committee D16 on Aromatic, Industrial, Specialty and Related Chemicals and is the direct responsibility of Subcommittee D16.05 on Editorial and Nomenclature.

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The boldface designations refer to the original source of the definition and the ASTM Technical Committee having jurisdiction.

<sup>2</sup> 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.

<sup>3</sup> The last approved version of this historical standard is referenced on www.astm.org.