



Designation: ~~D7717–11~~ D7717 – 11 (Reapproved 2017)

Standard Practice for Preparing Volumetric Blends of Denatured Fuel Ethanol and Gasoline Blendstocks for Laboratory Analysis¹

This standard is issued under the fixed designation D7717; 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 (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers and provides instructions on making a volumetric blend of denatured fuel ethanol with gasoline blendstocks, such as a reformulated gasoline blendstock for oxygenate blending (RBOB) or a conventional gasoline blendstock for oxygenate blending (CBOB).

1.2 This practice does not preclude the use of automated volumetric blending systems.

1.3 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[D4806](#) Specification for Denatured Fuel Ethanol for Blending with Gasolines for Use as Automotive Spark-Ignition Engine Fuel

[D4814](#) Specification for Automotive Spark-Ignition Engine Fuel

[D4815](#) Test Method for Determination of MTBE, ETBE, TAME, DIPE, tertiary-Amyl Alcohol and C₁ to C₄ Alcohols in Gasoline by Gas Chromatography

[D5501](#) Test Method for Determination of Ethanol and Methanol Content in Fuels Containing Greater than 20% Ethanol by Gas Chromatography

[D5599](#) Test Method for Determination of Oxygenates in Gasoline by Gas Chromatography and Oxygen Selective Flame Ionization Detection

2.2 *Federal Standard:*³

[CFR 40.80 Title 40—Protection of Environment, Chapter 1—Environmental Protection Agency \(continued\), Part 80—Regulation of Fuels and Fuel Additives, Subpart D— Reformulated Gasoline](#)

3. Terminology

3.1 *Definitions:*

3.1.1 *denaturants, n*—materials added to ethanol to make it unsuitable for beverage use under a formula approved by a regulatory agency to prevent the imposition of beverage alcohol tax. **D4806**

3.1.2 *denatured fuel ethanol, n*—fuel ethanol made unfit for beverage use by the addition of denaturants under formula(s) approved by the applicable regulatory agency to prevent the imposition of beverage alcohol tax. **D4806**

¹ This practice is under the jurisdiction of ASTM Committee [D02](#) on Petroleum Products—Products, Liquid Fuels, and Lubricants and is the direct responsibility of Subcommittee [D02.04.0A](#) on Preparation of Standard Hydrocarbon Blends.

Current edition approved ~~June 1, 2011~~ May 1, 2017. Published ~~August 2011~~ July 2017. Originally approved in 2011. Last previous edition approved in 2011 as D7717 – 11. DOI: ~~10.1520/D7717-11~~ 10.1520/D7717-11R17.

² 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.

³ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.