



Designation: ~~D770-05~~ Designation: D770 - 11

Standard Specification for Isopropyl Alcohol^{1, 2}

This standard is issued under the fixed designation D770; 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 specification covers isopropyl alcohol (99 % grade).

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

1.3 The following applies to all specified limits in this standard; for purposes of determining conformance with this standard, 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 E29.

~~1.4~~

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 For hazard information and guidance, see the supplier's Material Safety Data Sheet.

2. Referenced Documents

2.1 *ASTM Standards:*³

D268 [Guide for Sampling and Testing Volatile Solvents and Chemical Intermediates for Use in Paint and Related Coatings and Material](#)

D1078 [Test Method for Distillation Range of Volatile Organic Liquids](#)

D1209 [Test Method for Color of Clear Liquids \(Platinum-Cobalt Scale\)](#)

D1296 [Test Method for Odor of Volatile Solvents and Diluents](#)

D1353 [Test Method for Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer, and Related Products](#)

D1364 [Test Method for Water in Volatile Solvents \(Karl Fischer Reagent Titration Method\)](#)

D1476 [Test Method for Heptane Miscibility of Lacquer Solvents](#)

D1613 [Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products](#)

D1722 [Test Method for Water Miscibility of Water-Soluble Solvents](#)

D4052 [Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter](#)

D5386 [Test Method for Color of Liquids Using Tristimulus Colorimetry](#) ~~E1 Specification for ASTM Liquid-in-Glass Thermometers~~

E29 [Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications](#)

E300 [Practice for Sampling Industrial Chemicals](#)

2.2 *U.S. Federal Specification:*

PPP-C-2020 [Chemicals, Liquid, Dry, and Paste: Packaging of](#)⁴

3. Properties

3.1 Isopropyl alcohol shall conform to the following requirements:

Apparent specific gravity,

¹ This specification is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.35 on Solvents, Plasticizers, and Chemical Intermediates.

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² This compound is also known under the name propanol-2 and isopropanol.

³ 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.

⁴ Available from Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, <http://dodssp.daps.dla.mil>.

*A Summary of Changes section appears at the end of this standard.