

Designation: D329 – $07^{\epsilon 1}$

StandardSpecification for Acetone^{1,2}

This standard is issued under the fixed designation D329; 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.

This standard has been approved for use by agencies of the Department of Defense.

ε¹ NOTE—Subsection 5.1.7 was corrected editorially in July 2008.

1. Scope*

- 1.1 This specification covers acetone (99.5 % grade).
- 1.2 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.
- 1.3 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. Specific hazard statements are given in 1.5 and 4.1.
- 1.5 This specification specifies the use of a U.S. Occupational Safety and Health Administration (OSHA)-designated hazardous chemical, acetone. 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
- 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.
- Current edition approved July 10, 2008. Published July 2007. Originally approved in 1931. Last previous edition approved in 2002 as D329-02. DOI: 10.1520/D0329-07E01.
- $^{2}\,\mathrm{The}$ compound is also known under the names dimethyl ketone and 2-propanone.
- 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.

- 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
- D1363 Test Method for Permanganate Time of Acetone and Methanol
- 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
- D1614 Test Method for Alkalinity in Acetone
- 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
- 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

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