ASTM INTERNATIONAL

Designation: ~~D2916 – 09~~ D2916 – 09 (Reapproved 2017)

Standard Specification for
Isophorone[1]

This standard is issued under the fixed designation D2916; 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*~~Scope

1.1 This specification covers isophorone[2] (98 % grade) for use in paint, varnish, lacquer, and related products.

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 For specific hazard information and guidance, see the ~~supplier's Material~~ supplier's Safety Data Sheet for materials listed in this specification.

1.5 *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~~ safety, health, and ~~health~~environmental practices and determine the applicability of regulatory limitations prior to use.*

1.6 *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:*[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)
D1364 Test Method for Water in Volatile Solvents (Karl Fischer Reagent Titration Method)
D1613 Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products
D2192 Test Method for Purity of Aldehydes and Ketones
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:*[4]
PPP-C-2020 Chemicals, Liquid, Dry, and Paste: Packaging of

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[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 3,5,5-trimethyl-2-cyclohexene-1-one.

[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~~standard's Document Summary page on the ASTM website.

[4] Available from ~~Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D,~~ DLA Document Services, Building 4/D, 700 Robbins Ave., Philadelphia, PA ~~19111-5098, http://www.dodssp.daps.mil.~~ 19111-5094, http://quicksearch.dla.mil.

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