

Standard Specification for Ethylene Glycol¹

This standard is issued under the fixed designation D 2693; 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 ethylene glycol for use in the preparation of surface coatings.

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 E 29.

1.3 For specific hazard information and guidance, consult the supplier's Material Safety Data Sheet.

2. Referenced Documents

2.1 ASTM Standards:

- D 4052 Test Method for Density and Relative Density of Liquids by Digital Density Meter²
- E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications³
- E 202 Test Methods for Analysis of Ethylene Glycols and Propylene Glycols⁴
- E 300 Practice for Sampling Industrial Chemicals⁵

2.2 U.S. Federal Specification:

PPP-C-2020 Chemicals, Liquid, Dry, and Paste: Packaging of ⁶

3. Properties

3.1 Ethylene glycol shall conform to the following requirements:

1.1151 to 1.1156 or
1.1129 to 1.1134
15
193
204
0.2
0.005
1.0
1.0

4. Sampling

4.1 The material shall be sampled in accordance with Practice E 300.

5. Test Methods

5.1 The properties enumerated in this specification shall be determined in accordance with Test Methods E 202.

5.2 The specific gravity can also be determined in accordance with Test Method D 4052.

6. Packaging and Package Marking

6.1 Package size shall be agreed upon by the purchaser and the supplier.

6.2 Packaging shall conform to applicable carrier rules and regulations or when specified shall conform to Fed. Spec. PPP-C-2020.

7. Keywords

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

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 Annual Book of ASTM Standards, Vol 05.02.

³ Annual Book of ASTM Standards, Vol 14.02.

⁴ Annual Book of ASTM Standards, Vol 15.05.

⁵ Discontinued; see 2001 Annual Book of ASTM Standards, Vol 15.05.

^{7.1} ethylene glycol

⁶ Available from Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098



SUMMARY OF CHANGES

Committee D01.35 has identified the location of selected changes to this standard since the last issue (D 2693 - 93 (1997)) that may impact the use of this standard.

(1) Added reference to Practice E 29 in Scope section.
(2) Added Practice E 29 to list of Referenced Documents.

(3) Changed specs limits for apparent specific gravity in section 3.1.

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