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Standard Specification for 2-Butoxyethanol^{1,2}

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1. Scope

- 1.1 This specification covers 2-butoxyethanol.
- 1.2 For specific hazard information and guidance, see the supplier's Material Safety Data Sheet for materials listed in this specification.

2. Referenced Documents

- 2.1 ASTM Standards:
- D 268 Guide for Sampling and Testing Volatile Solvents and Chemical Intermediates for Use in Paint and Related Coatings and Materials³
- D 1078 Test Method for Distillation Range of Volatile Organic Liquids³
- D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)³
- D 1364 Test Method for Water in Volatile Solvents (Fischer Reagent Titration Method)³
- D 1613 Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products³
- D 4052 Test Method for Density and Relative Density of Liquids by Digital Density Meter⁴
- E 1 Specification for ASTM Thermometers⁵
- E 300 Practice for Sampling Industrial Chemicals⁶
- 2.2 U.S. Federal Standard:
- PPP-C-2020 Specification for Packaging of Chemicals, Liquid, Dry, and Paste⁷

3. Properties

3.1 2-Butoxyethanol shall conform to the following requirements:

Apparent specific gravity
20/20°C
25/25°C
Color, Pt-Co scale, max
Distillation range, 760 mm Hg
Initial boiling point, °C, min
168

Initial boiling point, °C, min 168
Dry point, °C, max 173
Water, weight %, max 0.1

Acidity (free acid as acetic acid), 0.01 equivalent to 0.093 mg KOH per weight %, max 0.01 equivalent to 0.093 mg KOH per gram of material

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 the following ASTM methods:
- 5.1.1 Apparent Specific Gravity—Determine the apparent specific gravity by any convenient method that is accurate to the third decimal place, the temperature of both specimen and water being 20 or 25°C (See Guide D 268 or Test Methods D 4052.)
 - 5.1.2 *Color*—Test Method D 1209.
- 5.1.3 Distillation Range—Test Method D 1078 using an ASTM Solvents Distillation Thermometer 103C having a range from 148 to 202°C and conforming to the requirements in Specification E 1.
 - 5.1.4 Water—Test Method D 1364.
 - 5.1.5 Acidity—Test Method D 1613.

6. Packaging and Package Marking

- 6.1 Package size to be agreed upon between the purchaser and the supplier.
- 6.2 Packaging shall conform to applicable carrier rules and regulations or when specified shall conform to PPP-C-2020.

7. Keywords

7.1 ethylene glycol monobutyl ether; 2-butoxyethanol

¹ This specification is under the jurisdiction of ASTM Committee D-1 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 ethylene glycol monobutyl ether.

³ Annual Book of ASTM Standards, Vol 06.04.

⁴ Annual Book of ASTM Standards, Vol 05.02.

⁵ Annual Book of ASTM Standards, Vol 14.03.

⁶ Annual Book of ASTM Standards, Vol 15.05.

⁷ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094.