



Standard Specification for Methyl Amyl Acetate (95 % Grade)¹

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1. Scope *

1.1 This specification covers methyl amyl acetate² (95 % grade) for use in paint, varnish, and related products.

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

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 E 29.

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 1296 Test Method for Odor of Volatile Solvents and Diluents³
- D 1353 Test Method for Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer, and Related Products³
- D 1364 Test Method for Water in Volatile Solvents (Karl Fischer Reagent Titration Method)³
- D 1476 Test Method for Heptane Miscibility of Lacquer Solvents³
- D 1613 Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products³
- D 1617 Test Method for Ester Value of Lacquer Solvents and Thinners³
- D 4052 Test Method for Density and Relative Density of

Liquids by Digital Density Meter⁴

E 1 Specification for ASTM Thermometers⁵

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications⁶

E 300 Practice for Sampling Industrial Chemicals⁷

2.2 U.S. Federal Specification:

PPP-C-2020 Packaging of Chemicals, Liquid, Dry, and Paste⁸

3. Properties

3.1 Methyl amyl acetate shall conform to the following requirements:

Apparent specific gravity:	
20/20°C	0.856 to 0.859
25/25°C	0.852 to 0.855
Color, Pt-Co units, max	15
Distillation range	
Below 142.5°C	none
Above 149.5°C	none
Nonvolatile matter mg/100 mL, max	5
Water, wt %, max (see Note 1)	0.1
Acidity (free acid as acetic acid), wt %, max	0.01
Ester value, wt %, min	95.0

NOTE 1—In some cases, Test Method D 1476 may serve as a useful alternative method to determine the presence of water. Because it is a qualitative test, its use would require agreement between user and supplier.

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 method that is accurate to the third decimal place, the temperature of both specimen and water being 20°C. See Guide D 268 or Test Method D 4052.

5.1.2 *Color*—Test Method D 1209.

5.1.3 *Distillation Range*—Test Method D 1078, using an

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² This compound is also known as 4-methyl-2-pentyl acetate.

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 14.02.

⁷ *Annual Book of ASTM Standards*, Vol 15.05.

⁸ Available from Standardization Documents Order Desk, DODSSP, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098.

