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AMERICAN SOCIETY FOR TESTING AND MATERIALS  
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## Standard Specification for Methyl Amyl Acetate (95 % Grade)<sup>1</sup>

This standard is issued under the fixed designation D 2634; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This specification covers methyl amyl acetate<sup>2</sup> (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.

### 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 Materials<sup>3</sup>

D 1078 Test Method for Distillation Range of Volatile Organic Liquids<sup>3</sup>

D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)<sup>3</sup>

D 1296 Test Method for Odor of Volatile Solvents and Diluents<sup>3</sup>

D 1353 Test Method for Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer, and Related Products<sup>3</sup>

D 1364 Test Method for Water in Volatile Solvents (Karl Fischer Reagent Titration Method)<sup>3</sup>

D 1613 Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products<sup>3</sup>

D 1617 Test Method for Ester Value of Lacquer Solvents and Thinners<sup>3</sup>

D 4052 Test Method for Density and Relative Density of Liquids by Digital Density Meter<sup>4</sup>

E 1 Specification for ASTM Thermometers<sup>5</sup>

E 300 Practice for Sampling Industrial Chemicals<sup>6</sup>

#### 2.2 U.S. Federal Specification:

PPP-C-2020 Packaging of Chemicals, Liquid, Dry, and Paste<sup>7</sup>

### 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	0.1
Acidity (free acid as acetic acid), wt %, max	0.01
Ester value, wt %, min	95.0

### 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 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 ASTM Solvents Distillation Thermometer 102C having a range from 123 to 177°C, and conforming to the requirements of Specification E 1, shall be used in connection with this test.

5.1.4 *Nonvolatile Matter*—Test Method D 1353.

5.1.5 *Odor*—Test Method D 1296.

5.1.6 *Water*—Test Method D 1364.

5.1.7 *Acidity*—Test Method D 1613.

5.1.8 *Ester Value*—Test Method D 1617.

### 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

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<sup>2</sup> This compound is also known as 4-methyl-2-pentyl acetate.

<sup>3</sup> *Annual Book of ASTM Standards*, Vol 06.04.

<sup>4</sup> *Annual Book of ASTM Standards*, Vol 05.02.

<sup>5</sup> *Annual Book of ASTM Standards*, Vol 14.03.

<sup>6</sup> *Annual Book of ASTM Standards*, Vol 15.05.

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

regulations or when specified shall conform to Fed. Spec. PPP-C-2020.

## **7. Keywords**

7.1 methyl amyl acetate

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