



Standard Test Methods for Sampling and Testing Dipentene¹

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1. Scope

1.1 These test methods cover procedures for sampling and testing dipentene and related terpene solvents, consisting chiefly of monocyclic terpene hydrocarbons distilling above the range for turpentine.

1.2 The procedures given in these test methods appear in the following order:

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1.3 *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 and health practices and determine the applicability of regulatory limitations prior to use.*

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 Materials²

D 890 Test Method for Water in Liquid Naval Stores³

D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)²

D 6166 Test Method for Color of Naval Stores and Related Products (Instrumental Determination of Gardner Color)³

D 6387 Test Methods for Composition of Turpentine and Related Terpene Products by Capillary Gas Chromatography³

E 300 Practice for Sampling Industrial Chemicals⁴

3. Significance and Use

3.1 The testing procedures described in these test methods have been in use for many years and emphasize the physical properties rather than the chemical composition of dipentene. These procedures were sufficient when dipentene was used primarily as a solvent. Currently, however, dipentene finds application as a chemical raw material and a knowledge of its chemical composition is therefore important. Test Methods D 6387 describe a capillary gas chromatography method which is suitable for determining both the major and minor components found in dipentene.

4. Sampling

4.1 Sample the material in accordance with the procedure described in Guide D 268 and Practice E 300. If a sample from close to the bottom of a tank shows a decided difference in color or appearance from samples taken at other depths, take an extra bottom sample and examine it separately from the composite sample. In such case the composite sample shall not include any portion of such bottom sample.

5. Detection and Removal of Separated Water

5.1 Draw a portion of the dipentene by means of a glass or metal container with a removable stopper or top,⁵ or with a thief, from the lowest part of the container, or by opening the bottom valve of the level tank car. If water is found to be present, draw it all out, record the quantity, and deduct it from the total volume of liquid delivered.

6. Appearance

6.1 Examine a portion of the sample after agitation to determine its clarity and freedom from foreign matter and separated water.

7. Color

7.1 Compare the color of the sample in any suitable or designated apparatus with the accepted or specific color

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² *Annual Book of ASTM Standards*, Vol 06.04.

³ *Annual Book of ASTM Standards*, Vol 06.03.

⁴ *Annual Book of ASTM Standards*, Vol 15.05.

⁵ Detailed description of equipment suitable for such sampling is given in Practice E 300.