



Designation: ~~D801-97~~ Designation: D 801 – 02 (Reapproved 2009)

## Standard Test Methods for Sampling and Testing Dipentene<sup>1</sup>

This standard is issued under the fixed designation D 801; 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 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:

	Section
Sampling	4
Detection and Removal of Separated Water	5
Appearance	6
Color	7
Odor	8
Specific Gravity	9
Refractive Index	10
Composition	11
Flash Point	12
Moisture	13

~~1.3~~

~~1.3~~ The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

~~1.4~~ *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:*<sup>2</sup>

D 268 [Guide for Sampling and Testing Volatile Solvents and Chemical Intermediates for Use in Paint and Related Coatings and Materials](#)

~~D803~~ [Standard Test Methods for Testing Tall Oil](#)

~~D 890~~ [Test Method for Water in Liquid Naval Stores](#)<sup>3</sup> [Test Method for Water in Liquid Naval Stores](#)

D 1209 [Test Method for Color of Clear Liquids \(Platinum-Cobalt Scale\)](#)

~~D3009~~ [Standard Test Method for Composition of Turpentine by Gas Chromatography](#)<sup>3</sup> [6166 Test Method for Color of Naval Stores and Related Products \(Instrumental Determination of Gardner Color\)](#)

~~D 6387~~ [Test Methods for Composition of Turpentine and Related Terpene Products by Capillary Gas Chromatography](#)

E 300 [Practice for Sampling Industrial Chemicals](#)

### 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. Gas chromatography is the accepted method for determining the chemical composition of dipentene. An ASTM test method using an existing ASTM test method using packed column gas chromatography can be used for the major compounds in dipentene. A capillary GC procedure is currently being written which is suitable for both the major and minor components.~~

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<sup>1</sup> These test methods are under the jurisdiction of ASTM Committee ~~D-4~~[D01](#) on Paint and Related Coatings, Materials, and Applications and are the direct responsibility of Subcommittee [D01.34](#) on Naval Stores.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.