



Designation: ~~D802-97~~ Designation: **D 802 – 02 (Reapproved 2009)**

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

This standard is issued under the fixed designation D 802; 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 pine oils, and are applicable to both natural pine oils derived from pine stumps either by the steam and solvent process or by destructive distillation, and also to synthetic pine oils obtained by the chemical hydration of terpene hydrocarbons.

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

	Section
Sampling	4
Appearance	5
Color	6
Specific Gravity	7
Refractive Index	8
Composition	9
<del>Moisture</del>	<del>10</del>
Moisture	10

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](#)

D 803 [Test Methods for Testing Tall Oil](#)

D 890 [Test Method for Water in Liquid Naval Stores](#)

~~D 3009 Test Method for Composition of Turpentine by Gas Chromatography~~

E 300 [Practice for Sampling Industrial Chemicals](#) - 1209 [Test Method for Color of Clear Liquids \(Platinum-Cobalt Scale\)](#)

D 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 of pine oil rather than its chemical composition. Gas chromatography is the accepted method for determining the chemical composition of pine oil. An ASTM test method based on capillary gas chromatography can be used for the major components of pine oil. A capillary GC procedure is currently being written which is suitable for both major and minor components.~~

3.1 The testing procedures described in these test methods have been in use for many years and emphasize the physical properties of pine oil rather than its chemical composition. Test Methods D 6387 describe a capillary gas chromatography method which is suitable for determining both the major and minor components found in pine oils.

<sup>1</sup> These test methods are under the jurisdiction of ASTM Committee ~~D-401~~ 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.