



Designation: D268 – 22

Standard Guide for Sampling and Testing Volatile Solvents and Chemical Intermediates for Use in Paint and Related Coatings and Material¹

This standard is issued under the fixed designation D268; 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 (ε) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope

1.1 This guide covers procedures for the sampling and testing of volatile solvents used in the manufacture of paint, lacquer, varnish, and related products. The test methods are listed in [Table 1](#).

1.2 For specific hazard information and guidance, see Suppliers' Material Safety Data Sheet for materials listed in this guide.

1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

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

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[D13 Specification for Spirits of Turpentine](#)

[D56 Test Method for Flash Point by Tag Closed Cup Tester](#)

[D86 Test Method for Distillation of Petroleum Products and](#)

[Liquid Fuels at Atmospheric Pressure](#)

[D93 Test Methods for Flash Point by Pensky-Martens Closed Cup Tester](#)

[D130 Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test](#)

[D156 Test Method for Saybolt Color of Petroleum Products \(Saybolt Chromometer Method\)](#)

[D233 Test Methods of Sampling and Testing Turpentine](#)

[D235 Specification for Mineral Spirits \(Petroleum Spirits\) \(Hydrocarbon Dry Cleaning Solvent\) \(Withdrawn 2021\)](#)³

[D329 Specification for Acetone](#)

[D611 Test Methods for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents](#)

[D847 Test Method for Acidity of Benzene, Toluene, Xylenes, Solvent Naphthas, and Similar Industrial Aromatic Hydrocarbons](#)

[D848 Test Method for Acid Wash Color of Industrial Aromatic Hydrocarbons](#)

[D849 Test Method for Copper Strip Corrosion by Industrial Aromatic Hydrocarbons](#)

[D850 Test Method for Distillation of Industrial Aromatic Hydrocarbons and Related Materials](#)

[D853 Test Method for Hydrogen Sulfide and Sulfur Dioxide Content \(Qualitative\) of Industrial Aromatic Hydrocarbons \(Withdrawn 2013\)](#)³

[D891 Test Methods for Specific Gravity, Apparent, of Liquid Industrial Chemicals](#)

[D1078 Test Method for Distillation Range of Volatile Organic Liquids](#)

[D1133 Test Method for Kauri-Butanol Value of Hydrocarbon Solvents](#)

[D1209 Test Method for Color of Clear Liquids \(Platinum-Cobalt Scale\)](#)

[D1296 Test Method for Odor of Volatile Solvents and Diluents \(Withdrawn 2021\)](#)³

[D1310 Test Method for Flash Point and Fire Point of Liquids by Tag Open-Cup Apparatus](#)

¹ This guide is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.35 on Solvents, Plasticizers, and Chemical Intermediates.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

***A Summary of Changes section appears at the end of this standard**