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Standard Guide for the Comparison, Detection, and Identification of the Odors of Paints, Inks, and Related Materials¹

This standard is issued under the fixed designation D6165; 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.

1. Scope

1.1 This guide is intended to provide direction in order to assist the producers and users of paints, inks, and related coatings, and others who may also be exposed, to detect, compare and identify the odors that may originate from these materials.

1.2 This guide is intended to provide references for establishing guidelines to assist in identifying and verifying the sources of odors and other related issues. Further information may be found in DS-48A (1).²

1.3 This guide is intended to assist in establishing guidelines as follows:

(1) Comparing products for their odor characteristics,

(2) Determining the perception threshold of odors,

(3) Isolating and identifying the chemical nature of the odor, and

(4) Confirming the results.

1.4 For hazard information and guidance, see the supplier's Material Safety Data Sheet.

1.5 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:³

D1292 Test Method for Odor in Water

D1296 Test Method for Odor of Volatile Solvents and Diluents

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 D01.24 on Physical Properties of Liquid Paints and Paint Materials.

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 2 The boldface numbers in parentheses refer to the list at the end of this guide.

- D2650 Test Method for Chemical Composition of Gases by Mass Spectrometry
- D3686 Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal Tube Adsorption Method)
- D3687 Practice for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method
- D4339 Test Method for Determination of the Odor of Adhesives
- E253 Terminology Relating to Sensory Evaluation of Materials and Products
- E544 Practices for Referencing Suprathreshold Odor Intensity
- E679 Practice for Determination of Odor and Taste Thresholds By a Forced-Choice Ascending Concentration Series Method of Limits
- E769 Test Methods for Odor of Methanol, Ethanol, *n*-Propanol, and Isopropanol (Withdrawn 2011)⁴
- E1207 Guide for Sensory Evaluation of Axillary Deodor-
- E1432 Practice for Defining and Calculating Individual and Group Sensory Thresholds from Forced-Choice Data Sets of Intermediate Size
- E1593 Guide for Assessing the Efficacy of Air Care Products in Reducing Sensorly Perceived Indoor Air Malodor Intensity

3. Terminology

3.1 The definitions in Terminology E253 are applicable to this guide.

4. Significance and Use

4.1 This guide is intended to direct the user to the appropriate existing standards and literature in order for the user to become knowledgeable of the operations that need to be done to effectively compare, detect and identify the odors of paints, inks, and related materials.

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³ 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.

 $^{^{\}rm 4}\,{\rm The}$ last approved version of this historical standard is referenced on www.astm.org.