



Designation: D 1836 – 9902

Standard Specification for Commercial Hexanes¹

This standard is issued under the fixed designation D 1836; 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 This specification is under the jurisdiction of ASTM Committee D-1 D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.35 on Solvents, Plasticizers, and Chemical Intermediates.

Current edition approved Dec. 10, 1999; 2002. Published February 2009³. Originally published as D 1836—61 T; approved in 1961. Last previous edition approved in 1999 as D 1836 – 989.

1. Scope *

1.1 This specification covers the range of products commonly referred to as hexanes, which find uses in the preparation of adhesives, coatings, and printing inks, as raw materials in chemical synthesis operations, and as solvents in various kinds of extraction operations.

1.2 The following applies to all specified limits in this standard; for purposes of determining conformance with this standard, an observed value or a calculated value shall be rounded off “to the nearest unit” in the last right-hand digit used in expressing the specification limit, in accordance with the rounding-off method of Practice E 29.

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.

1.34 For specific hazard information and guidance consult supplier’s Material Safety Data Sheet.

2. Referenced Documents

2.1 ASTM Standards:

D 156 Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)²

D 268 Guide for Sampling and Testing Volatile Solvents and Chemical Intermediates for Use in Paint; and Related Coatings and Materials³

D 611 Test Methods for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents²

D 1078 Test Method for Distillation Range of Volatile Organic Liquids³

D 1133 Test Method for Kauri-Butanol Value of Hydrocarbon Solvents³

D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)³

D 1296 Test Method for Odor of Volatile Solvents and Diluents³

D 1353 Test Method for Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer, and Related Products³

D 2710 Test Method for Bromine Index of Petroleum Hydrocarbons by Electrometric Titration⁴

D 3120 Test Method for Trace Quantities of Sulfur in Light Liquid Petroleum Hydrocarbons by Oxidative Microcoulometry⁴

D 4367 Test Method for Benzene in Hydrocarbon Solvents By Gas Chromatography³

E 1 Specification for ASTM Thermometers⁵

E 29 Practice for Using Significant Digits in Test Data To Determine Conformance with Specifications⁶

E 300 Practice for Sampling Industrial Chemicals⁷

2.2 U.S. Federal Specification:

PPP-C-2020 Chemicals, Liquid, Dry, and Paste: Packaging of⁸

² Annual Book of ASTM Standards, Vol 05.01.

³ Annual Book of ASTM Standards, Vol 06.04.

⁴ Annual Book of ASTM Standards, Vol 05.021.

⁵ Annual Book of ASTM Standards, Vol 14.03.

⁶ Annual Book of ASTM Standards, Vol 15.05; 14.02.

⁷ Available from Standardization Documents, Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, ATTN: NPODS.

⁸ Annual Book of ASTM Standards, Vol 15.05.

⁸ Available from Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098

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