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Standard Specification for Styrene Monomer¹

This standard is issued under the fixed designation D 2827; 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 specification covers styrene monomer.

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 Consult current OSHA regulations~~

1.3 The values stated in SI units are to be regarded as standard.

1.4 Consult current OSHA regulations, supplier's Material Safety Data Sheets, and local regulations for all materials used in this specification.

2. Referenced Documents

2.1 *ASTM Standards:*²

D 1016 Test Method for Purity of Hydrocarbons from Freezing Points

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

D 2119 Test Method for Aldehydes in Styrene Monomer

D 2121 Test Methods for Polymer Content of Styrene Monomer and AMS (~~α -Methylstyrene~~)(Methylstyrene)

D 2340 Test Method for Peroxides in Styrene Monomer

D 3437 Practice for Sampling and Handling Liquid Cyclic Products

D 4590 Test Method for Colorimetric Determination of *p-tert*-Butylcatechol in Styrene Monomer or AMS (~~α -Methylstyrene~~)(Methylstyrene) by Spectrophotometry

D 5135 Test Method for Analysis of Styrene by Capillary Gas Chromatography

D 5386 Test Method for Color of Liquids Using Tristimulus Colorimetry

D 6229 Test Method for Trace Benzene in Hydrocarbon solvents Solvents by Capillary Gas Chromatography

~~D6304 Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fisher Titration~~ 7375 Test Method for Trace Quantities of Water in Aromatic Hydrocarbons and Their Mixtures by Coulometric Karl Fischer Titration

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

E1064 Test Method for Water in Organic Liquids by Coulometric Karl Fischer Titration Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

2.2 *Other Document:*

~~OSHA Regulations, 29CFR, paragraphs 1910.1000 and 1910.1200~~

OSHA Regulations, 29CFR paragraphs 1910.1000 and 1910.1200³

3. Properties

3.1 Styrene 3.1 Styrene monomer shall conform to the following requirements:

Property	Specification	ASTM Test Method
Purity, min, weight %	99.8 ⁴	D 5135

¹ This specification is under the jurisdiction of ASTM Committee D16 on Aromatic Hydrocarbons and Related Chemicals and is the direct responsibility of Subcommittee D16.07 on Styrene, Ethylbenzene; and C_9 and C_{10} Aromatic Hydrocarbons.

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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 Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.

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