



Designation: D 7124 – 05

Standard Specification for Benzene for use with Zeolite Based Catalysts¹

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1. Scope

1.1 This specification covers benzene for use with zeolite based catalysts.

1.2 The following applies to all specified limits in this specification: for purposes of determining conformance with this specification, 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 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

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 848 Test Method for Acid Wash Color of Industrial Aromatic Hydrocarbons
- D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)
- D 1492 Test Method for Bromine Index of Aromatic Hydrocarbons by Coulometric Titration
- D 1685 Test Method for Traces of Thiophene in Benzene by Spectrophotometry
- D 3437 Practice for Sampling and Handling Liquid Cyclic Products
- D 4045 Test Method for Sulfur in Petroleum Products by Hydrogenolysis and Rateometric Colorimetry
- D 4492 Test Method for Analysis of Benzene by Gas Chromatography
- D 4629 Test Method for Trace Nitrogen in Liquid Petroleum Hydrocarbons by Syringe/Inlet Oxidative Combustion and Chemiluminescence Detection

tion and Chemiluminescence Detection

- D 4735 Test Method for Determination of Trace Thiophene in Refined Benzene by Gas Chromatography
 - D 5194 Test Method for Trace Chloride in Liquid Aromatic Hydrocarbons
 - D 5386 Test Method for Color of Liquids Using Tristimulus Colorimetry
 - D 5776 Test Methods for Bromine Index of Aromatic Hydrocarbons by Electrometric Titration
 - D 6069 Test Method for Trace Nitrogen in Aromatic Hydrocarbons by Oxidative Combustion and Reduced Pressure Chemiluminescence Detection
 - D 6212 Test Method for Total Sulfur in Aromatic Compounds by Hydrogenolysis and Rateometric Colorimetry
 - D 6304 Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fisher Titration
 - D 6313 Test Method for Total Sulfur in Aromatic Compounds by Hydrogenolysis and Sulfur Specific Difference Photometry
 - D 6366 Test Method for Total Trace Nitrogen and Its Derivatives in Liquid Aromatic Hydrocarbons by Oxidative Combustion and Electrochemical Detection
 - D 6428 Test Method for Total Sulfur in Liquid Aromatic Hydrocarbons and Their Derivatives by Oxidative Combustion and Electrochemical Detection
 - D 7011 Test Method for Determination of Trace Thiophene in Refined Benzene by Gas Chromatography and Sulfur Selective Detection
 - E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications
 - E 1064 Test Method for Water in Organic Liquids by Coulometric Karl Fischer Titration
- 2.2 *Other Document:*
OSHA Regulations, 29 CFR, paragraphs 1910.1000 and 1910.1200³

3. Properties

3.1 Benzene for use with zeolite based catalysts shall conform to the following requirements:

³ Available from Superintendent of Documents, U.S. Government Printing Office, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401.

¹ This specification is under the jurisdiction of ASTM Committee D16 on Aromatic Hydrocarbons and Related Chemicals and is the direct responsibility of Subcommittee D16.01 on Benzene, Toluene, Xylenes, Cyclohexane, and Their Derivatives.

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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.