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Standard Specification for Refined Benzene-535¹

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1. Scope*

- 1.1 This specification covers a grade of benzene known as refined benzene-535.
- 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 [E29](#).
- 1.3 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this 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

- [D848 Test Method for Acid Wash Color of Industrial Aromatic Hydrocarbons](#)
- [D852 Test Method for Solidification Point of Benzene](#)
- [D1209 Test Method for Color of Clear Liquids \(Platinum-Cobalt Scale\)](#)
- [D1685 Test Method for Traces of Thiophene in Benzene by Spectrophotometry \(Withdrawn 2009\)³](#)
- [D3437 Practice for Sampling and Handling Liquid Cyclic Products](#)
- [D4492 Test Method for Analysis of Benzene by Gas Chromatography](#)
- [D4735 Test Method for Determination of Trace Thiophene in Refined Benzene by Gas Chromatography](#)
- [D5194 Test Method for Trace Chloride in Liquid Aromatic Hydrocarbons](#)
- [D5386 Test Method for Color of Liquids Using Tristimulus Colorimetry](#)
- [D5808 Test Method for Determining Chloride in Aromatic Hydrocarbons and Related Chemicals by Microcoulometry](#)
- [D6069 Test Method for Trace Nitrogen in Aromatic Hydrocarbons by Oxidative Combustion and Reduced Pressure Chemiluminescence Detection](#)
- [D6304 Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration](#)
- [D6875 Test Method for Solidification Point of Industrial Organic Chemicals by Thermistor](#)
- [D7011 Test Method for Determination of Trace Thiophene in Refined Benzene by Gas Chromatography and Sulfur Selective Detection](#)
- [D7183 Test Method for Determination of Total Sulfur in Aromatic Hydrocarbons and Related Chemicals by Ultraviolet Fluorescence](#)
- [D7184 Test Method for Ultra Low Nitrogen in Aromatic Hydrocarbons by Oxidative Combustion and Reduced Pressure Chemiluminescence Detection](#)
- [D7359 Test Method for Total Fluorine, Chlorine and Sulfur in Aromatic Hydrocarbons and Their Mixtures by Oxidative Pyrohydrolytic Combustion followed by Ion Chromatography Detection \(Combustion Ion Chromatography-CIC\)](#)
- [D7360 Test Method for Analysis of Benzene by Gas Chromatography with External Calibration](#)

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.

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