



Designation: **D5871—17 D5871 – 19**

Standard Specification for Benzene for Cyclohexane Feedstock¹

This standard is issued under the fixed designation D5871; 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 benzene for cyclohexane feedstock.
- 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 the standard. The values given in parentheses are for information only.
- 1.4 Consult current OSHA regulations supplier’s Safety Data Sheets for all materials used in this specification.
- 1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

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](#)
- ~~[D1685 Test Method for Traces of Thiophene in Benzene by Spectrophotometry \(Withdrawn 2009\)³](#)~~
- [D3437 Practice for Sampling and Handling Liquid Cyclic Products](#)
- ~~[D4017 Test Method for Water in Paints and Paint Materials by Karl Fischer Method](#)~~
- ~~[D4492 Test Method for Analysis of Benzene by Gas Chromatography \(Withdrawn 2018\)³](#)~~
- [D4735 Test Method for Determination of Trace Thiophene in Refined Benzene by Gas Chromatography](#)
- [D5386 Test Method for Color of Liquids Using Tristimulus Colorimetry](#)
- [D5713 Test Method for Analysis of High Purity Benzene for Cyclohexane Feedstock by Capillary Gas Chromatography](#)
- [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](#)
- ~~[D7375 Test Method for Trace Quantities of Water in Aromatic Hydrocarbons and Their Mixtures by Coulometric Karl Fischer Titration \(Withdrawn 2017\)³](#)~~
- [D7504 Test Method for Trace Impurities in Monocyclic Aromatic Hydrocarbons by Gas Chromatography and Effective Carbon Number](#)
- [D8005 Test Method for Color of Clear Liquids \(Platinum-Cobalt Scale\)](#)
- [E29 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](#)
- [E2680 Test Method for Appearance of Clear, Transparent Liquids \(Visual Inspection Procedure\)](#)

¹ This specification is under the jurisdiction of ASTM Committee D16 on Aromatic, Industrial, Specialty 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.