

Designation: D 3193 - 96

Standard Specification for Ethylbenzene¹

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1. Scope

- 1.1 This specification covers ethylbenzene.
- 1.2 Consult current OSHA regulations, supplier's Material Safety Data Sheets for all materials, and local regulations used in this specification.
- 1.3 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.

2. Referenced Documents

- 2.1 ASTM Standards:
- D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)²
- D 3437 Practice for Sampling and Handling Liquid Cyclic Products²
- D 3961 Test Method for Trace Quantities of Sulfur in Liquid Aromatic Hydrocarbons by Oxidative Microcoulometry²
- D 4045 Test Method for Sulfur in Petroleum Products by Hydrogenolysis and Rateometric Colorimetry³
- D 5060 Test Method for Determining Impurities in High-Purity Ethylbenzene by Gas Chromatography²
- D 5194 Test Method for Trace Chlorides in Liquid Aro-

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- D 5386 Test Method for Color of Liquids Using Tristimulus Colorimetry 2
- D 5808 Test Method for Determining Organic Chloride in Aromatic Hydrocarbons and Related Chemicals by Microcoulemetry²
- E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications⁴
- 2.2 Other Document:
- OSHA Regulations, 29 CFR, paragraphs 1910.1000 and 1910.1200⁵

3. Properties

3.1 Ethylbenzene shall conform to the following requirements:

Property	Specification	ASTM Test Method
Purity, min, weight %	99.00	D 5060
Benzene, max, weight %	0.1	D 5060
Toluene, max, weight %	0.4	D 5060
Xylenes, max, weight %	0.4	D 5060
Cumene, max, weight %	0.03	D 5060
Diethylbenzene, max, weight %	0.003	D 5060
Chlorides, max, mg/kg	3	D 5194 or D 5808
Sulfur, max, mg/kg	1	D 3961 or D 4045
Color, max, Pt-Co	10	D 1209 or D 5386

4. Sampling

4.1 The material shall be sampled in accordance with Practice D 3437.

5. Keywords

5.1 ethylbenzene; purity

Hydrocarbons.

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