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Standard Specification for Cumene (Isopropylbenzene) Manufactured Via a Zeolite Process¹

This standard is issued under the fixed designation D7125; 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 cumene (isopropylbenzene) manufactured using a zeolite catalyst process.

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 E29.

1.3 Units—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 and Supplier's Safety Data Sheets, and local regulations 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.

https://standards.iteh.ai/catalog/standards/sist/f38818dc-1ef4-4d9e-9f08-fc874abadf50/astm-d7125-23

2. Referenced Documents

2.1 ASTM Standards:²

D1492 Test Method for Bromine Index of Aromatic Hydrocarbons by Coulometric Titration

- D3160 Test Method for Phenol Content of Cumene (Isopropylbenzene) or AMS (α -Methylstyrene)
- D3437 Practice for Sampling and Handling Liquid Cyclic Products
- D3760 Test Method for Analysis of Isopropylbenzene (Cumene) by Gas Chromatography (Withdrawn 2022)³
- D5386 Test Method for Color of Liquids Using Tristimulus Colorimetry

D5776 Test Method for Bromine Index of Aromatic Hydrocarbons by Electrometric Titration

D7057 Test Method for Analysis of Isopropylbenzene (Cumene) by Gas Chromatography (External Standard)

D7183 Test Method for Determination of Total Sulfur in Aromatic Hydrocarbons and Related Chemicals by Ultraviolet Fluorescence

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)

¹ This specification is under the jurisdiction of Committee D16 on Aromatic, Industrial, Specialty and Related Chemicals and is the direct responsibility of Sub committee D16.07 on Styrene, Ethylbenzene and C9 and C10 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.



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
E298 Test Methods for Assay of Organic Peroxides
E299 Test Method for Trace Amounts of Peroxides In Organic Solvents
E2680 Test Method for Appearance of Clear, Transparent Liquids (Visual Inspection Procedure)
2.2 Other Documents:
OSHA Regulations, 29 CFR paragraphs 1910.1000 and 1910.1200 ³

3. Properties

3.1 Cumene (isopropylbenzene) manufactured via a catalytic zeolite process shall conform to the following requirements:

iTeh Standards (https://standards.iteh.ai) Document Preview

<u>ASTM D7125-23</u>

https://standards.iteh.ai/catalog/standards/sist/f38818dc-1ef4-4d9e-9f08-fc874abadf50/astm-d7125-23

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

🕼 D7125 – 23

Purtly, mass %, min 99.93 07057 Apha Methylstrene, mg/kg, max 50 07057 Apha Methylstrene, mg/kg, max 50 07057 Apha Methylstrene, mg/kg, max 50 07057 Berzene, mg/kg, max 10 07057 Curnnen kyfwg, max 100 07057 Dilsopropylbenzenes, Individual Jaomer, 5 07057 max 0 07057 Dilsopropylbenzenes, Individual Jaomer, 5 07057 mg/kg, max 10 07057 mg/kg, max 10 07057 Bisopropylbenzenes, Individual Isomer, 5 07057 Dilsopropylbenzenes, Total, mg/kg, max 10 07057 Hythenzene, mg/kg, max 10 07057 Hythenzene, mg/kg, max 20 07057 Hythenzene, mg/kg, max 10 07057 Hythenzene, mg/kg, max 20 07057 Hythenzene, mg/kg, max 20 07057 Hythenzene, mg/kg, max 5 03766 or 67067 Hythenzene, mg/kg, max 5 </th <th>Property</th> <th>Specifications</th> <th>ASTM Test Method^A</th>	Property	Specifications	ASTM Test Method ^A
Appha-Methylstene.mg/kg.max 60 B3760 or B3760 r Benzene.mg/kg.max 50 D7057 Benzene.mg/kg.max 10 D7057 Benzene.mg/kg.max 100 D7057 Curneen hydroperoxide, at loading, mg/kg. 100 E298 or E299 max Disopropylbenzenes, individual isomer, 5 B3760 or D7057 Disopropylbenzenes, Individual isomer, 5 D7057 Disopropylbenzenes, Total, mg/kg.max 10 D3767 Disopropylbenzenes, Total, mg/kg.max 10 D3766 or D7057 Ethylbenzene, mg/kg.max 10	Purity, mass %, min	99.93	D3760 or D7057
Appha-Methylstene.mg/kg.max 60 B3760 or B3760 r Benzene.mg/kg.max 50 D7057 Benzene.mg/kg.max 10 D7057 Benzene.mg/kg.max 100 D7057 Curneen hydroperoxide, at loading, mg/kg. 100 E298 or E299 max Disopropylbenzenes, individual isomer, 5 B3760 or D7057 Disopropylbenzenes, Individual isomer, 5 D7057 Disopropylbenzenes, Total, mg/kg.max 10 D3767 Disopropylbenzenes, Total, mg/kg.max 10 D3766 or D7057 Ethylbenzene, mg/kg.max 10	Purity, mass %, min	99.93	D7057
Alpha-Methylstrene, mg/kg, max50D7057Benzene, mg/kg, max10D7057Curnene hydroperoxide, at loading, mg/kg,10D7057Curnene hydroperoxide, at loading, mg/kg,10D7057Curnene hydroperoxide, at loading, mg/kg,5D7057Phisopropylbenzenes, Individual Isomer,5D7057mg/kg, max10D7057Disopropylbenzenes, Total, mg/kg, max10D7057Disopropylbenzenes, Total, mg/kg, max10D7057Ethylbenzene, mg/kg, max10D7057Ethylbenzene, mg/kg, max50D7057Ethylbenzene, mg/kg, max10D7057Ethylbenzene, mg/kg, max50D7057Ethylbenzene, mg/kg, max10D7057Febrylbenzene, mg/kg, max50D3160 or D7057Febrylbenzene, mg/kg, max50D3160 or D7057Febrylbenzene, mg/kg, max10D7057Febrylbenzene, mg/kg, max10D7057Febrylbenzene, mg/kg, max10		50	D3760 or D7057
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Benzen, mg/kg, max 10 D7057 Cumene hydroperoxide, at loading, mg/kg, 10 D7057 Disopropylbenzenes, Individual Isomer, 5 D7057 mg/kg, max 10 D7057 Disopropylbenzenes, Total, mg/kg, max 10 D7057 Disopropylbenzenes, Total, mg/kg, max 10 D7057 Disopropylbenzenes, Total, mg/kg, max 10 D7057 Ethylbenzene, mg/kg, max 10 D7057 Fbutylbenzene, mg/kg, max 20 D7057 Fbutylbenzene, mg/kg, max 20 D7057 Fbutylbenzene, mg/kg, max 20 D7057 Fbutylbenzene, mg/kg, max 5 D3660 or D7067 Fbutylbenzene, mg/kg, max 5 D3660 or D7057			D3760 or D7057
Curnene hydroperoxide, at loading, mg/kg, 100 E298 or E299 Diisopropylbenzenes, Individual Isomer, 5 D0760 or D7057 -mg/kg, max 5 D7057 Diisopropylbenzenes, Individual Isomer, 5 D7057 Diisopropylbenzenes, Total, mg/kg, max 10 D7057 Diisopropylbenzenes, Total, mg/kg, max 50 D7057 Diisopropylbenzenes, mg/kg, max 50 D7057 Ethylbenzene, mg/kg, max 50 D7057 Haytibenzene, mg/kg, max 50 D7057 Heutylbenzene, mg/kg, max 10 D7057 Pethylbenzene, mg/kg, max 20 D7057 Pethylbenzene, mg/kg, max 20 D7057 Phenole, mg/kg, max 5 D3160 or D7057 Phenole, mg/kg, max 5 D3160 or D7057 Phenole, mg/kg, max 5 D3160 or D7057 Phenole, mg/kg, max 6 D3		10	
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Disopropylenzenes, Individual Isomer, -mg/kg.max 5 D7057 Disopropylenzenes, Individual Isomer, mg/kg.max 5 D7057 Disopropylenzenes, Total, mg/kg.max 10 D7057 Ethylenzene, mg/kg.max 10 D7057 Ethylenzene, mg/kg.max 50 D3760 or D7057 Ethylenzene, mg/kg.max 10 D7057 Ethylenzene, mg/kg.max 10 D7057 Flautylenzene, mg/kg.max 10 D7057 Flautylenzene, mg/kg.max 10 D7057 Flautylenzene, mg/kg.max 10 D7057 Flautylenzene, mg/kg.max 10 D7057 Plautylenzene, mg/kg.max 10 D7057 Plautylenzene, mg/kg.max 10 D7057 Plautylenzene, mg/kg.max 20 D3760 or D7057 Plautylenzene, mg/kg.max 25 D7057 Phenols, mg/kg.max 25 D7057 Phenols, mg/kg.max 300 D7057 Phenols, mg/kg.max 0.1 D7057 Flauthon-Anomatics, mg/kg.max 0.1 D70			
Disopropybenzenes, Individual Isomer, mg/kg, max 5 D7057 mg/kg, max 10 D7057 Disopropybenzenes, Total, mg/kg, max 10 D7057 Ethylbenzene, mg/kg, max 50 D7057 Ethylbenzene, mg/kg, max 50 D7057 Ethylbenzene, mg/kg, max 10 D7057 Fbutylbenzene, mg/kg, max 20 D7057 Fbutylbenzene, mg/kg, max 20 D7057 Fbutylbenzene, mg/kg, max 25 D7057 Fbutylbenzene, mg/kg, max 25 D7057 Fbutylbenzene, mg/kg, max 5 D3766 or D7057 Fbutylbenzene, mg/kg, max 5 D3766 or D7057 Fbutylbenzene, mg/kg, max 5 D3160 or D7057 rPropylbenzene, mg/kg, max 5 D3160 or D7057 rPropylbenzene, mg/kg, max 5 D3160 or D7057 rDropylbenzene, mg/kg, max 5 D3160 or D7057 <td>Diisopropylbenzenes, Individual Isomer,</td> <td>5</td> <td>D3760 or D7057</td>	Diisopropylbenzenes, Individual Isomer,	5	D3760 or D7057
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t-Butylbenzene, mg/kg, max 25 D7057 Phenols, mg/kg, max 5 D3160, D3760or Phenols, mg/kg, max 900 D3760 or n-Propylbenzene, mg/kg, max 300 D7057 sulfur, mg/kg, max 300 D7057 n-Propylbenzene, mg/kg, max 300 D7057 Sulfur, mg/kg, max 300 D7057 rotuene, mg/kg, max 0.1 D7057 Toluene, mg/kg, max 10 D7057 Toluene, mg/kg, max 65 D7057 Total Butylbenzenes, mg/kg, max 65 D7057 Total Butylbenzenes, mg/kg, max 65 D7057 Total Cymenes, mg/kg, max 50 D7057 Total Cymenes, mg/kg, max 50 D7057 Total Cymenes, mg/kg, max 50 D7057 Total Cymenes, mg/kg, max 50° D7057 Total Cunknowns, mg/kg, max 50° D7057 Total GC Unknowns, mg/kg, max 50° D7057 Total GC Unknowns, mg/kg, max 50° D7057 Total GC Unknowns, mg/kg, max 50° D7057 Bromine index, max		20	
Phenols, mg/kg, max5D7057Phenols, mg/kg, max300D3760 orn-Propylbenzene, mg/kg, max110Standardsn-Propylbenzene, mg/kg, max0.1D7057Sulfur, mg/kg, max0.1D7183 or D7359Total Butylbenzenes, mg/kg, max10State 10Total Butylbenzenes, mg/kg, max65D7057Total Cymenes, mg/kg, max65D7057Total Cymenes, mg/kg, max150 ^B D7057Total Cymenes, mg/kg, max150 ^B D7057Total GC Unknowns, mg/kg, max150 ^B D7057Total GC Unknowns, mg/kg, max150 ^C D3760 or D7057Total GC Unknowns, mg/kg, max150 ^C D3760 or D7057Total GC Unknowns, mg/kg, max150 ^B D7057Total GC Unknowns, mg/kg, max150 ^C D3760 or D705	, , , , , , , , , , , , , , , , , , , ,		
Phenols, mg/kg, max5D7057Phenols, mg/kg, max300D3760 orn-Propylbenzene, mg/kg, max110Standardsn-Propylbenzene, mg/kg, max0.1D7057Sulfur, mg/kg, max0.1D7183 or D7359Total Butylbenzenes, mg/kg, max10State 10Total Butylbenzenes, mg/kg, max65D7057Total Cymenes, mg/kg, max65D7057Total Cymenes, mg/kg, max150 ^B D7057Total Cymenes, mg/kg, max150 ^B D7057Total GC Unknowns, mg/kg, max150 ^B D7057Total GC Unknowns, mg/kg, max150 ^C D3760 or D7057Total GC Unknowns, mg/kg, max150 ^C D3760 or D7057Total GC Unknowns, mg/kg, max150 ^B D7057Total GC Unknowns, mg/kg, max150 ^C D3760 or D705		<u>25</u> 5	
Phenols, mg/kg, max5D3160 or D7057n-Propylbenzene, mg/kg, max300D3760 orn-Propylbenzene, mg/kg, max0.1D7057Sulfur, mg/kg, max0.1D7183 or D7359Toluene, mg/kg, max10D3760 or D7057Toluene, mg/kg, max0.1D7057Toluene, mg/kg, max10D7057Total Butylbenzenes, mg/kg, max65D7057Total Butylbenzenes, mg/kg, max65D7057Total Cymenes, mg/kg, max65D7057Total Cymenes, mg/kg, max10D7057Total Cymenes, mg/kg, max150 ^B D7057Total Cuknowns, mg/kg, max150 ^B D7057Total GC Unknowns, mg/kg, max150 ^B D7057Total GC Unknowns, mg/kg, max150 ^B D7057Total GC Unknowns, mg/kg, max150 ^B D7057Appearance, free of haze, particulates or suspended matter particlespassE2680	Thereis, mg/kg, max	5	
n-Propylbenzene, mg/kg, max90093760 orn-Propylbenzene, mg/kg, max0.197057Sulfur, mg/kg, max0.10.1Toluene, mg/kg, max0.197660 or D7057Toluene, mg/kg, max1093760 or D7057Total Butylbenzenes, mg/kg, max6507057Total Cymenes, mg/kg, max6507057Total Cymenes, mg/kg, max5093760 or D7057Total Cymenes, mg/kg, max5007057Total Cymenes, mg/kg, max5007057Total Cymenes, mg/kg, max150 ⁸ 07057Total Cymenes, mg/kg, max150 ⁸ 07057Total GC Unknowns, mg/kg, max150 ⁸ 07057Total GC Unknowns, mg/kg, max50°07057Total GC Unknowns, mg/kg, max150°07057Total GC Unknowns, mg/kg, max150°07057Appearance, free of haze, particulates or suspended matter particlespassE2680	Phenols ma/ka max	5	
n-Propylbenzene, mg/kg, max D7057 Sulfur, mg/kg, max 0.1 Toluene, mg/kg, max 0.1 Toluene, mg/kg, max 10 Total Butylbenzenes, mg/kg, max 65 Total Cymenes, mg/kg, max 65 Total Cymenes, mg/kg, max 150 ⁶ Total Non-Aromatics, mg/kg, max 150 ⁶ Total GC Unknowns, mg/kg, max 100 ⁶		300	
n-Propylbenzene, mg/kg, maxD7057Sulfur, mg/kg, max0.1Toluene, mg/kg, max10Toluene, mg/kg, max10Toluene, mg/kg, max10Toluene, mg/kg, max10Toluene, mg/kg, max10Total Butylbenzenes, mg/kg, max65Total Cymenes, mg/kg, max65Total Cymenes, mg/kg, max50Total Cymenes, mg/kg, max50Total Non-Aromatics, mg/kg, max150 ^B Total GC Unknowns, mg/kg, max50°Total GC Unknowns, mg/kg, max50			
Sulfur, mg/kg, max0.1D7183 or D7359Toluene, mg/kg, max10D7057Total Butylbenzenes, mg/kg, max65D7057Total Butylbenzenes, mg/kg, max65D7057Total Cymenes, mg/kg, max65D7057Total Cymenes, mg/kg, max150 ^g D3760 or D7057Total Non-Aromatics, mg/kg, max150 ^g D7057Total GC Unknowns, mg/kg, max150 ^g D7057Bromine index, max25D7057Appearance, free of haze, particulates or suspendedpassE2680			
Toluene, mg/kg, max10D3760 or D7057Toluene, mg/kg, max105.11 cmD7057Total Butylbenzenes, mg/kg, max65D7057Total Cymenes, mg/kg, max65D7057Total Cymenes, mg/kg, max50D7057Total Non-Aromatics, mg/kg, max150 ⁸ D3760 or D7057Total GC Unknowns, mg/kg, max150 ⁸ D7057Total GC Unknowns, mg/kg, max50D7057Total GC Unknowns, mg/kg, max50°D7057Appearance, free of haze, particulates or suspendedpassE2680	Sulfur ma/ka max		
Total Bulylbenzenes, mg/kg, max Total Cymenes, mg/kg, max Total Cymenes, mg/kg, max Total Cymenes, mg/kg, max Total Non-Aromatics, mg/kg, max Total Our Aromatics, mg/kg, max Total CUnknowns, mg/kg, max Total GC Unknowns, mg/kg, max Bromine index, max Appearance, free of haze, particulates or suspended matter particlesDocument65 50 50 50 50° 25D7057 D3760 or D7057	Toluono ma/ka max	10	
Total Bulylbenzenes, mg/kg, max Total Cymenes, mg/kg, max Total Cymenes, mg/kg, max Total Cymenes, mg/kg, max Total Non-Aromatics, mg/kg, max Total Our Aromatics, mg/kg, max Total CUnknowns, mg/kg, max Total GC Unknowns, mg/kg, max Bromine index, max Appearance, free of haze, particulates or suspended matter particlesDocument65 50 50 50 50° 25D7057 D3760 or D7057	Toluene mg/kg max	standarios itab ai	
Total Bulylbenzenes, mg/kg, max Total Cymenes, mg/kg, max Total Cymenes, mg/kg, max Total Cymenes, mg/kg, max Total Non-Aromatics, mg/kg, max Total Our Aromatics, mg/kg, max Total CUnknowns, mg/kg, max Total GC Unknowns, mg/kg, max Bromine index, max Appearance, free of haze, particulates or suspended matter particlesDocument65 50 50 50 50° 25D7057 D3760 or D7057	Total Butylbenzenes mg/kg max	stanuar <u>e</u> is.nten.ai	
Total Cymenes, mg/kg, maxTotal Cymenes, mg/kg, maxTotal Cymenes, mg/kg, maxTotal Non-Aromatics, mg/kg, maxTotal Non-Aromatics, mg/kg, maxTotal GC Unknowns, mg/kg, maxBromine index, maxAppearance, free of haze, particulates or suspendedmatter particles	, , , , , , , , , , , , , , , , , , , ,		
Total Cymenes, mg/kg, max50D7057Total Non-Aromatics, mg/kg, max150 ^B D3760 or D7057Total Non-Aromatics, mg/kg, max150 ^B D7057Total GC Unknowns, mg/kg, max150 ^C D3760 or D7057Total GC Unknowns, mg/kg, max50 ^C D3760 or D7057Bromine index, max25 ^C D7057Appearance, free of haze, particulates or suspendedpassE2680			
Total Non-Aromatics, mg/kg, max 150 ^B D3760 or D7057 Total Non-Aromatics, mg/kg, max 150 ^B D7057 Total GC Unknowns, mg/kg, max 150 ^B D7057 Total GC Unknowns, mg/kg, max 50 ^C D3760 or D7057 Bromine index, max ASTM D71 50 ^C D7057 Appearance, free of haze, particulates or suspended matter particles pass E2680			
Total Non-Aromatics, mg/kg, max150 ^B D7057Total GC Unknowns, mg/kg, maxASTM D7150 ^C D3760 or D7057Total GC Unknowns, mg/kg, maxD7057D7057Bromine index, maxD7057D7057Appearance, free of haze, particulates or suspendedpassE2680			
Total GC Unknowns, mg/kg, max ASTM D712 50 ^G /50 ^C /50 ^C D3760 or D7057 Total GC Unknowns, mg/kg, max D7057 D7057 Bromine index, max D1/catalog/standards/sist/B8818dc-1251-4498-9108-16874aba D1492 or D57767125-23 Appearance, free of haze, pass E2680 matter particles E2680			
Total GC Unknowns, mg/kg, max 50° D7057 Bromine index, max 25 25 24 Appearance, free of haze, pass E2680		EOC	
Bromine index, max D1492 or D5776 7 2 5 2 4 9 9 10 4 9 2 0r D5776 7 2 5 2 9 10 4 9 10 4 9 2 0r D5776 7 2 5 2 9 10 4 9 10			
Appearance, free of haze, pass E2680 matter particles E2680 E2680	Durbinsterne installent fan eite die die die die die die die die die di		
particulates or suspended pass E2680 matter particles	US.//Statiuarus.iteri.a/vataiu2/statiuarus/	SISI/120018ac-1694-4a9e-9108-IC8/4a	IDACHINE ASENING / 123-23
matter particles		nass	E2680
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500, 1900, 10 D000	1	10	D5386 or D8005

^A If more than one method is listed, the producer and the user should agree on the referee test method. ^B All components eluting between toluene and cumene in a non-polar (HP-1 or equivalent) GC analysis (See Test Method D3760 or D7057) excluding Ethylbenzene. May ^C Excluding CHP, Acetophenone, and 2-Phenyl-2-Propanol (Dimethylbenzylalcohol or Dimethylphenylcarbinol).