



Designation: ~~D2439-96(Reapproved2003)^{ε1}~~ Designation: D 2439 – 96 (Reapproved 2008)

Standard Specification for Refined Phenol¹

This standard is issued under the fixed designation D 2439; 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.

~~^{ε1}Note—The words “as is” in the table in Section 3.1 were deleted editorially in February 2003.~~

1. Scope

1.1 This specification covers refined phenol.

1.2 Consult current OSHA regulations and supplier's Material Safety Data Sheets, and local regulations for all materials listed 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.

~~1.4~~

~~1.4 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.~~

~~1.5 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.~~

2. Referenced Documents

2.1 *ASTM Standards*:²

D 1493 Test Method for Solidification Point of Industrial Organic Chemicals

D 1631 Test Method for Water in Phenol and Related Materials by the Iodine Reagent Method

D 1686 Test Method for Color of Solid Aromatic Hydrocarbons and Related Materials in the Molten State (Platinum-Cobalt Scale)

D 3852 Practice for Sampling and Handling Phenol, Cresols, and Cresylic Acid

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance ~~With~~with Specifications

2.2 *Other Document*:

~~OSHA Regulations, 29CFR, paragraphs 1910.1000 and 1910.1200~~

~~OSHA Regulations, 29 CFR paragraphs 1910.1000 and 1910.1200³~~

3. Properties

~~3.1 Refined~~3.1 Refined phenol shall conform to the following requirements when sampled and tested as described:

Property	Specification	ASTM Test method
Water content, max, weight %	0.10	D 1631
Solidification point, min, ° C	40.6	D 1493
Appearance	^A	
Molten color	^B	

^A Molten liquid or crystalline solid, free of sediment and haze.

^B Refined phenol as produced is essentially colorless. Depending upon both the nature and duration of subsequent handling, it may discolor. Therefore, a rigid

¹ This specification is under the jurisdiction of ASTM Committee D16 on Aromatic Hydrocarbons and Related Chemicals and is the direct responsibility of Subcommittee D16.02 on Oxygenated Aromatics.

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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, Vol 06.04, volume information, refer to the standard's Document Summary page on the ASTM website.~~

~~³ Annual Book of ASTM Standards, Vol 14.02.~~

~~³ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, http://www.access.gpo.gov.~~