



Designation: ~~D2439~~—~~16~~ **D2439** – 20

Standard Specification for Refined Phenol¹

This standard is issued under the fixed designation D2439; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope*

1.1 This specification covers refined phenol.

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 listed in this specification.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.6 *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

D1631 Test Method for Water in Phenol and Related Materials by the Iodine Reagent Method

D1686 Test Method for Color of Solid Aromatic Hydrocarbons and Related Materials in the Molten State (Platinum-Cobalt Scale)

D3852 Practice for Sampling and Handling Phenol, Cresols, and Cresylic Acid

D6875 Test Method for Solidification Point of Industrial Organic Chemicals by Thermistor

E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

2.2 *Other Document:*

OSHA Regulations, 29 CFR paragraphs 1910.1000 and 1910.1200³

3. Properties

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	D1631
Water content, max, mass %	0.10	D1631
Solidification point, min, °C	40.6	D6875
Appearance	A	

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

Current edition approved June 1, 2016 April 1, 2020. Published June 2016 April 2020. Originally approved in 1965. Last previous edition approved in 2012 2016 as ~~D2439 – 12~~ D2439 – 16. DOI: 10.1520/D2439-16; 10.1520/D2439-20.

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 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.

*A Summary of Changes section appears at the end of this standard