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Standard Specification for Refined Pyridine (1 Degree)[1]

This standard is issued under the fixed designation D 2323; 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.

ε[1] NOTE—Editoral changes were made in the Scope Section in December l997.

1. Scope

1.1 This specification covers refined pyridine.

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 E 29.

1.3 Consult current OSHA regulations, supplier's Material Safety Data Sheets, and local regulations for all materials used in this specification.

2. Referenced Documents

2.1 *ASTM Standards:*

D 1078 Test Method for Distillation Range of Volatile Organic Liquids[2]

D 1209 Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)[2]

D 1631 Test Method for Water in Phenol and Related Materials by the Iodine Reagent Method[2]

D 2030 Test Method for Water Solubility of Refined Pyridine[2]

D 2031 Test Method for Reducing Substances in Refined Pyridine[2]

D 3437 Practice for Sampling and Handling Liquid Cyclic Products[2]

D 3505 Test Method for Density or Relative Density of Pure Liquid Chemicals[2]

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance With Specifications[3]

2.2 *Other Document:*

OSHA Regulations, 29 CFR, paragraphs 1910.1000 and 1910.1200[4]

3. Properties

3.1 Refined pyridine shall conform to the following requirements:

Property	Specification	ASTM Test Method
Water, max, weight %	0.10	D 1631
Reducing substances	Passes at 30 min	D 2031
Water solubility	Passes, clear solution, no turbidity or oil film	D 2030
Appearance	A	
Color, max, platinum/cobalt scale	20	D 1209
Relative density, 15.56/15.56°C	0.985 to 0.990	D 3505
Distillation range, including the temperature 115.3 ± 0.1°C, at 101.3 kPa (760 mm Hg) pressure, max, °C	1.0	D 1078 using ASTM Solvents Distillation Thermometer 41°C

A Clear liquid free of sediment and haze when observed at 18.3 to 25.6°C (65 to 78°F).

4. Sampling

4.1 Sample the material in accordance with Practice D 3437.

5. Keywords

5.1 pyridine; refined pyridine

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[2] *Annual Book of ASTM Standards*, Vol 06.04.

[3] *Annual Book of ASTM Standards*, Vol 14.02.

[4] Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.