



Designation: D 3329 – 9903

Standard Test Method for Purity of Methyl Isobutyl Ketone by Gas Chromatography^{1,2}

This standard is issued under the fixed designation D 3329; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope*

1.1 This test method covers the determination of the purity of methyl isobutyl ketone (MIBK) by gas chromatography and in addition provides a means for measuring certain impurities such as methyl isobutyl carbinol which are of interest. Impurities such as water and acidity are measured by other appropriate ASTM procedures and the results are used to normalize the chromatographic value.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.3 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 round-off method of Practice E 29.

1.4 *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.*

1.35 For specific hazard information and guidance, see the supplier’s Material Safety Data Sheet for the materials listed in this test method.

¹ This test method is under the jurisdiction of ASTM Committee D-1 D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.35 on Solvents, Plasticizers, and Chemical Intermediates.

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² IUPAC approved name

² The compound is 4-methyl-2-pentanone; also known under the names dimethyl ketone and 2-propanone.