



Designation: D 3893 – 9903

Standard Test Method for Purity of Methyl Amyl Ketone and Methyl Isoamyl Ketone by Gas Chromatography¹

This standard is issued under the fixed designation D 3893; 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 test method covers the determination of the purity of methyl amyl ketone and methyl isoamyl ketone. In addition, the method determines total ketones and various impurities which may include acetone, isopropyl alcohol, methyl propyl ketone, methyl isobutyl ketone, methyl butyl ketone, methyl isobutyl carbinol, mesityl oxide, methyl isoamyl ketone, methyl butyl carbinol, methyl amyl ketone, and diisobutyl ketone.

1.2 Water and acid cannot be determined by this test method. They must be determined by other appropriate ASTM procedures, and the results used to normalize the chromatographic data.

1.3 For purposes of determining conformance of an observed or a calculated value using this test method to relevant specifications, test result(s) 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 *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.*

1.45 For hazard information and guidance, see the supplier’s Material Safety Data Sheet.

2. Referenced Documents

2.1 *ASTM Standards:*

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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