



Designation: D 1840 – 02₃

An American National Standard

Standard Test Method for Naphthalene Hydrocarbons in Aviation Turbine Fuels by Ultraviolet Spectrophotometry¹

This standard is issued under the fixed designation D 1840; 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, by ultraviolet spectrophotometry, of the total concentration of naphthalene, acenaphthene, and alkylated derivatives of these hydrocarbons in ~~straight-run~~ jet fuels. This test method is designed to analyze fuels containing not more than 5 % of such components and having end points below 315°C (600°F); however, the range of concentrations used in the interlaboratory test programs which established the precision statements for this test method were 0.03 to 4.25 volume % for Procedure A, and 0.08 to 5.6 volume % for Procedure B. This test method determines the maximum amount of naphthalenes that could be present.

1.2 The values stated in SI units are to be regarded as the standard. The values stated in inch-pound units are for information only.

1.3 *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.* For specific ~~precautionary~~ warning statements, see 8.1 and 8.2.

¹ This test method is under the jurisdiction of ASTM Committee D02 on Petroleum Products and Lubricants and is the direct responsibility of Subcommittee ~~D02.04.01~~ D02.04 on ~~Absorption Spectroscopic Methods—Hydrocarbon Analysis.~~

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