



Designation: D7575-10¹ Designation: D7575 – 11

Standard Test Method for Solvent-Free Membrane Recoverable Oil and Grease by Infrared Determination²

This standard is issued under the fixed designation D7575; 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 approval. A superscript symbol (ⁿ) indicates an editorial change since the last revision or approval.

¹ ~~ASTM~~—Research report information was editorially added to Section 12 in March 2010.

1. Scope

1.1 This test method covers the determination of oil and grease in water extracted with an infrared-sensable membrane and measured by infrared transmission through the membrane.

1.1.1 This test method covers the determination of oil and grease in produced and waste water samples over the concentration range outlined in Table 1 that can be extracted with an infrared-sensable membrane and measured by infrared transmission through the membrane.

1.2 This method defines oil and grease in water as that which is extractable in the test method and measured by infrared transmission.

1.3 The method detection limit (MDL) and recommended reporting range are listed in Table 1.

1.4 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

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

2. Referenced Documents

2.1 ASTM Standards³

D1129 Terminology Relating to Water

D1193 Specification for Reagent Water

D2777 Practice for Determination of Precision and Bias of Applicable Test Methods of Committee D19 on Water

D5847 Practice for Writing Quality Control Specifications for Standard Test Methods for Water Analysis

E168 Practices for General Techniques of Infrared Quantitative Analysis

E178 Practice for Dealing With Outlying Observations

2.2 EPA Standards⁴

EPA Method 1664 Revision A: N-Hexane Extractable Material (HEM; Oil and Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) By Extraction and Gravimetry

40 CFR

49 CFR

3. Terminology

3.1 *Definitions:* For definitions of terms used in this test method, refer to Terminology D1129 and Practices E168.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *oil and grease, n*—“membrane-recoverable oil and grease” is a method-defined analyte; that is, the definition of membrane-recoverable oil and grease is dependent on the procedure used.

3.2.1.1 *Discussion*—The nature of the oils or greases (or both), and the presence of recoverable non-oily matter in the sample will influence the material measured and interpretation of results.

¹ This test method is under the jurisdiction of ASTM Committee D19 on Water and is the direct responsibility of Subcommittee D09.06 on Methods for Analysis for Organic Substances in Water.

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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 United States Environmental Protection Agency (EPA), Arden Ray Bldg., 1200 Pennsylvania Ave., NW, Washington, DC 20460, <http://www.epa.gov>.

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