

NOT MEASUREMENT SENSITIVE

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SUPERSEDING
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FEDERAL SPECIFICATION

ETHER, PETROLEUM; TECHNICAL GRADE

The General Services Administration has authorized the use of this federal specification by all federal agencies.

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers technical grade petroleum ether to be used as a solvent.

2. APPLICABLE DOCUMENTS

2.1 Government publications. The issues of the following documents, in effect on the date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

Code of Federal Regulations (CFR)

49 CFR 172.101 -Purpose and Use of Hazardous Materials Table.

(The CFR is for sale on a subscription basis from the Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. When indicated, reprints of certain regulations may be obtained from the federal agency responsible for issuing them. Electronic copies may be obtained from <http://www.access.gpo.gov/>.)

Beneficial comments, recommendations, additions, deletions clarifications, etc. and any data that may improve this document should be sent to: Defense Supply Center Richmond, ATTN: DSCR-VBD, 8000 Jefferson Davis Highway, Richmond, VA 23297-5610.

AMSC N/A

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2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless a specific issue is identified, the issue in effect on the date of invitation for bids or request for proposal shall apply.

ASTM International

- ASTM D 86 - Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure (DoD adopted).
- ASTM D 130 - Standard Test Method for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test (DoD adopted).
- ASTM D 156 - Standard Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method) (DoD adopted).
- ASTM D 287 - Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method) (DoD adopted).
- ASTM D 1093 - Standard Test Method for Acidity of Hydrocarbon Liquids and Their Distillation Residues (DoD adopted).
- ASTM D 1159 - Standard Test Method for Bromine Numbers of Petroleum Distillates and Commercial Aliphatic Olefins by Electrometric Titration (DoD adopted).
- ASTM D 1319 - Standard Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption (DoD adopted).
- ASTM D 1353 - Standard Test Method for Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer, and Related Products (DoD adopted).

(Private sector and civil agencies may purchase copies of these voluntary standards from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959. Electronic copies may be obtained from <http://www.astm.org/>.)

3. REQUIREMENTS

3.1 Material. The material shall be as specified in paragraphs 3.2 through 3.11.

3.2 Appearance. The petroleum ether shall be a clear liquid, free from suspended matter and sediment (see 4.3.1).

3.3 Odor. The odor of the material as received and during evaporation shall not be disagreeable or sulfuretted. There shall be no residual odor after evaporation (see 4.3.2).

3.4 Color. The color shall be not darker than Saybolt color 28 (see 4.3.3).

3.5 Nonvolatile matter. The nonvolatile matter shall be not more than 0.0010 gram (g) per 100 milliliters (ml) of material (see 4.3.4).

3.6 Acidity. The petroleum ether shall be neutral (non-acidic) (see 4.3.5).

3.7 Distillation range. The initial boiling point shall be not less than 35 °C and the dry flask end point shall be not greater than 65 °C (see 4.3.6).