

METRIC

A-A-59107A
24 March 2011
 SUPERSEDING
 A-A-59107
 9 September 1997

COMMERCIAL ITEM DESCRIPTION

TOLUENE, TECHNICAL

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. SCOPE. This commercial item description (CID) covers one technical grade of toluene.

2. SALIENT CHARACTERISTICS

2.1 Chemical and physical characteristics. Technical grade toluene shall conform to the chemical and physical characteristics of table I when tested as specified therein.

TABLE I. Chemical and physical characteristics of technical grade toluene.

Requirement	Specification limit	Test method
Specific gravity 20 °C/20 °C (68 °F/68 °F)	0.860 - 0.870	ASTM D891 ¹
Color platinum-cobalt scale	No. 20 max	ASTM D1209
Distillation range at 760 mm mercury (Hg)	Not more than 2 °C (3.6 °F) from initial boiling point to dry point, including the temperature of 110.6 °C (231 °F)	ASTM D850 ²
Residual odor	None	ASTM D1296
Water at 20 °C (68 °F)	No evidence of turbidity or free water	See 2.2
Acidity	No evidence of acidity	ASTM D847
Acid color wash	Not darker than No. 4 color standard	ASTM D848
Sulfur compounds	Free of hydrogen sulfide and sulfur dioxide	ASTM D853
Copper corrosion	Pass	ASTM D849

¹ Measured to the third decimal place.

² Using a thermometer with a minimum range of 98 to 152 °C (208 to 306 °F), with a maximum subdivision of 0.2 °C or a device with equivalent measuring performance.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: STDZNMGT@dla.mil or Defense Logistics Agency Aviation VEB, 8000 Jefferson Davis Highway, Richmond, VA 23297-5616. Since contact information can change, you may want to verify the currency of this address information using the ASSIST database at <https://assist.daps.dla.mil/>.

A-A-59107A

2.2 Water. Place 10 milliliters (mL) of the sample in a dry, loosely stoppered test tube (16 by 150 millimeters (mm)) and place in a water bath at 20 °C (68 °F). On viewing the test tube transversely at the end of 3 minutes, no turbidity should be observed and no free water should appear in the bottom of the tube.

3. REGULATORY REQUIREMENTS

3.1 Labeling, packaging, and marking. Item shall be labeled, packed, and marked in accordance with 49 Code of Federal Regulations (CFR), Parts 100 to 199.

3.2 Material safety data sheet (MSDS). A MSDS shall be furnished in accordance with FED-STD-313, "Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities", and 29 CFR 1910.1200, "Hazard Communication".

3.3 Hazard warning label. An Occupational Safety and Health Administration hazard warning label shall be furnished in accordance with 29 CFR 1910.1200.

3.4 Recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

4. PRODUCT CONFORMANCE PROVISIONS

4.1 Product conformance. The product provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. The government reserves the right to require proof of such conformance.

4.2 Market acceptability. The product offered must have been previously sold either to the government or on the commercial market.

5. PACKAGING

5.1 Preservation, packing, and marking. Preservation, packing, and marking shall be as specified in the acquisition order (see 6.2(b)).

6. NOTES

6.1 Sources of documents.

6.1.1 CFR and FAR. Copies of CFR and FAR may be obtained from the Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Electronic copies of CFR documents may be obtained from <http://www.gpoaccess.gov/ecfr/>. Electronic copies of FAR documents may be obtained from <https://www.acquisition.gov/far/>.

A-A-59107A

6.1.2 Federal standards. Copies of federal standards may be obtained from General Services Administration, Federal Supply Service, Specification Section, 470 East L'Enfant Plaza SW, Suite 8100, Washington, DC 20407. Electronic copies may be obtained from <https://assist.daps.dla.mil/>.

6.1.3 ASTM standards. Copies of ASTM standards may be obtained 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/>.

6.2 Ordering data. The acquisition order should specify the following information:

- a. CID document number and revision.
- b. Preservation, packing, and marking (see 5.1).

6.3 Subject term (key word) listing.

Solvent
Thinner

MILITARY INTERESTS:

Custodians:

- Army - AR
- Navy - SH
- Air Force - 68
- DLA - GS
- Other - DS

Review Activities:

- Army - MD1, MI
- Navy - MC, OS

CIVIL AGENCY
COORDINATING ACTIVITY:

GSA - FAS

Preparing Activity:

DLA - GS3

(Project 6810-2011-003)

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