

TECHNICAL DATA SHEET

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Product Name	TOLUENE
Product Identification	PPQ-047
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1. PRODUCT IDENTIFICATION

Product Name	Toluene (Methylbenzene, Toluol, Phenylmethane)
Chemical Formula	C ₇ H ₈
CAS Number	108-88-3
EC Number	203-625-9
HS Code	2902.30
Product Identification	PPQ-047
Physical Form	Clear, colourless liquid with a characteristic aromatic odour

2. PRODUCT DESCRIPTION

Toluene is a mono-substituted aromatic hydrocarbon consisting of a benzene ring bearing a single methyl group. It is a clear, colourless, water-insoluble liquid with a characteristic aromatic odour, produced principally from catalytic reforming and pyrolysis gasoline streams and recovered by extractive distillation to high purity.

The grade covered by this Technical Data Sheet is a high-purity commercial toluene meeting the specification set out in Section 3, characterized by a narrow distillation range around the normal boiling point of toluene (110.6 °C), very low non-aromatic content, and freedom from acidity and reactive sulphur compounds.

3. SPECIFICATIONS

The product shall conform to the following specification. All parameters are determined in accordance with the referenced ASTM test methods.

Parameter	Unit	Test Method	Specification	Technical Description
Appearance	–	Visual	Clear liquid, free of sediment or cloudiness, observed from 18.3 to 25.6 °C	Visual verification that the product is bright and clear, free of suspended matter, free water and haze at ambient temperature.
Relative Density (15.56/15.56 °C)	–	ASTM D 4052-96	0.869 – 0.873	Density band characteristic of high-purity toluene; confirms product identity and the absence of significant lighter or heavier hydrocarbon contamination.
Distillation Range at 760 mm Hg	°C	ASTM D 850-99a	1.0 °C max., including the temperature 110.6 °C	A distillation range of at most 1.0 °C bracketing the true boiling point of toluene (110.6 °C) demonstrates a high-purity, single-component product.
Color	Pt-Co	ASTM D 1209-00	20 max.	Platinum-Cobalt (Hazen) colour scale; a value of 20 max. corresponds to a water-white product suitable for solvent and chemical applications.

Acid Wash Color	–	ASTM D 848-97	2.0 max.	Measures colour developed on contact with sulphuric acid; a low value indicates the practical absence of reactive impurities such as olefins and unsaturates.
Acidity	mg NaOH/100 ml	ASTM D 847-96	Not detected	Confirms the absence of free organic acids; the product is neutral and non-corrosive in storage and processing.
Sulfur Compounds (H ₂ S – SO ₂)	–	ASTM D 853-97	Not detected	Doctor-type test confirming freedom from hydrogen sulphide and sulphur dioxide, protecting downstream catalysts and preventing odour and corrosion issues.
Copper Plate Corrosion	–	ASTM D 849-97	Pass (1A, 1B)	Copper strip corrosion classification 1A/1B (slight tarnish) confirms the product is non-corrosive to copper and copper alloys in handling systems.
Non-Aromatics	ppm wt	ASTM D 2360-00	1500 max.	Gas-chromatographic determination of non-aromatic (paraffinic/naphthenic) content; a low limit assures high aromatic purity for chemical feedstock use.

4. TYPICAL APPLICATIONS

Toluene is used as a solvent in paints, coatings, printing inks, lacquers, adhesives, rubber cements and cleaning formulations; as a chemical feedstock for the production of benzene, xylenes, toluene diisocyanate (TDI), benzoic acid, caprolactam and other derivatives; as a high-octane blending component in motor gasoline; and as a process and extraction solvent in the pharmaceutical, agrochemical and specialty chemical industries.

5. PACKING AND DELIVERY

The product is supplied in bulk by chemical/product tanker vessels, in ISO tank containers, in road tank trucks, or in new steel drums of approximately 200 litres net capacity palletized and secured for export, as agreed in the Sales Contract. All transport units are dedicated or properly cleaned, dry and suitable for aromatic hydrocarbons.

6. STORAGE AND HANDLING

Store in tightly closed, properly grounded carbon steel or stainless steel tanks and containers in a cool, dry, well-ventilated area away from heat, sparks, open flames and oxidizing agents. The product is a highly flammable liquid; all electrical equipment in storage and handling areas must be suitable for the applicable hazardous-area classification.

Detailed safety, handling, storage and transport requirements are provided in the corresponding Safety Data Sheet (ATB-SDS-TOL-2026-001).

7. QUALITY AND ORIGIN

Quality at the time of loading is determined by an independent internationally recognized inspection company on the basis of the producer's Certificate of Quality. Country of origin is stated in the Sales Contract and evidenced by the Certificate of Origin issued for each shipment.

8. SANCTIONS COMPLIANCE

ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ conducts its business in full compliance with applicable international trade control regulations, including the sanctions regimes administered by the United States Office of Foreign Assets Control (OFAC), the European Union, the United Kingdom (OFSI) and the United Nations Security Council. ATABAŞ does not work with sanctioned countries, sanctioned entities or sanctioned individuals, and does not source, sell, ship or finance products of sanctioned origin.

DISCLAIMER

The values reported herein are obtained in the laboratory under the test methods described, are provided as a guide and do not constitute an implicit or explicit guarantee for the application of this product. This Technical Data Sheet has been prepared with reference to the applicable product quality documentation; the producer's Certificate of Quality issued for each shipment shall govern. It is the responsibility of the user to determine the suitability of the product for its intended use.