

TECHNICAL DATA SHEET

Document Reference	ATB-TDS-XYL-2026-001
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Product Name	XYLENE 5° (MIXED XYLENES – 5 °C DISTILLATION RANGE)
Product Identification	PPQ-049
Prepared By	ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ

1. PRODUCT IDENTIFICATION

Product Name	Xylene 5° (Mixed Xylenes, Dimethylbenzene – 5 °C distillation range grade)
Chemical Formula	C ₈ H ₁₀
CAS Number	1330-20-7 (xylene, mixed isomers)
EC Number	215-535-7
HS Code	2902.44
Product Identification	PPQ-049
Physical Form	Clear, colourless liquid with a characteristic aromatic odour

2. PRODUCT DESCRIPTION

Xylene 5° is a mixture of the three dimethylbenzene isomers (ortho-, meta- and para-xylene), typically containing a minor proportion of ethylbenzene. It is a clear, colourless, water-insoluble aromatic liquid recovered from catalytic reformat and pyrolysis gasoline streams.

The designation "5°" refers to the 5 °C maximum distillation range grade: the product distils within a band of not more than 5.0 °C, with an initial boiling point of not less than 137 °C and a dry point of not more than 143 °C, confirming a closely cut, high-purity solvent-grade mixed xylene as specified in Section 3.

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.
Specific Gravity (15.56/15.56 °C)	–	ASTM D 4052	0.865 – 0.875	Density band characteristic of mixed xylenes; confirms product identity and the absence of significant lighter or heavier hydrocarbon contamination.
Distillation Range at 760 mm Hg	°C	ASTM D 850	5.0 max.	The total boiling range of the product does not exceed 5.0 °C, demonstrating a closely fractionated, high-purity aromatic cut.

Initial Boiling Point	°C	ASTM D 850	137 min.	A minimum initial boiling point of 137 °C excludes lighter aromatics (benzene, toluene) and light non-aromatics from the product.
Dry Point Temperature	°C	ASTM D 850	143 max.	A maximum dry point of 143 °C excludes heavier aromatics (C ₉ +) and high-boiling residues, defining the upper limit of the cut.
Color	Pt-Co	ASTM D 1209	20.0 max.	Platinum-Cobalt (Hazen) colour scale; a value of 20 max. corresponds to a water-white product suitable for solvent and coating applications.
Acid Wash Color	–	ASTM D 848	8.0 max.	Measures colour developed on contact with sulphuric acid; limits reactive impurities such as olefins and unsaturates in the product.
Acidity	mg NaOH/100 ml	ASTM D 847	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	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	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.

4. TYPICAL APPLICATIONS

Mixed xylenes are used as a solvent and diluent in paints, coatings, varnishes, printing inks, adhesives, rubber and agricultural chemical formulations; as a feedstock for the separation of para-xylene (for PTA/PET polyester chains), ortho-xylene (for phthalic anhydride) and meta-xylene (for isophthalic acid); as a high-octane gasoline blending component; and as a process solvent in the pharmaceutical, leather and printing 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 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-XYL-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.

Huzur Mahallesi, Azerbaycan Caddesi,
Skyland İstanbul 4 B Blok, 27. Kat,
Daire 389-390-391, Sarıyer / İstanbul, Türkiye

+90 212 801 64 60
info@atabas.com.tr
www.atabas.com.tr

Vergi No: 8360813811
MERSİS No: 0836081381100001

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