



PETRONAS

PARAXYLENE

PETRONAS CHEMICALS GROUP BERHAD
CHEMISTRY FOR GROWTH

PCG Aromatics Plant

PARAXYLENE

Paraxylene is an aromatic hydrocarbon with the chemical formula C_8H_{10} . A colourless flammable liquid, it has a characteristically sweet odour. Paraxylene is mainly used as feedstock for the manufacture of purified terephthalic acid (PTA), the principal raw material for polyester.

PETRONAS CHEMICALS AROMATICS MALAYSIA SDN. BHD.

- Kertih, Terengganu
- 500 KMTPA
- JV Company between PETRONAS (70%) MJPX Co. Ltd. (30%)

Product Applications

PRODUCT	DERIVATIVES	APPLICATIONS
Paraxylene	Polyester Purified Terephthalic Acid (PTA)	<ul style="list-style-type: none"> • Polyester fibres for textile applications (apparel and home furnishings). • Solid-state resins for the production of beverage bottles.

Product Specifications

COMPONENTS	UNITS	SPECIFICATIONS	METHODS
Purity	% Weight	99.70 min	ASTM D 5917
Non-aromatics	% Weight	0.20 max	ASTM D 5917
Ethylbenzene	% Weight	0.20 max	ASTM D 5917
Metaxylene	% Weight	0.15 max	ASTM D 5917
Orthoxylene	% Weight	0.10 max	ASTM D 5917
Toluene	% Weight	0.10 max	ASTM D 5917
Total Sulfur	ppm weight	1.0 max	ASTM D 5453
Total Chlorine	ppm weight	1.0 max	ASTM D 5808
Distillation range 760mm Hg incl 138.3°C	°C	1.5 max	ASTM D 850 (**)
Specific Gravity 15°C/4°C	-	0.864 to 0.867	ASTM D 4052
Bromine Index	mg/100g	200 max	ASTM D 5776
Colour	Pt-Co	10 max	ASTM D 1209
Acid Wash Colour	-	2 max	ASTM D 848
Appearance	-	(*)	Visual
Benzene	% Weight	Report Only	ASTM D 5917

(*) Clear liquid free of sediment and haze when observed at 18.3°C to 25.7°C.

(**) The test method including Boiling Point of 138.3°C at 760mm Hg