



## **PETRONAS CHEMICALS** MTBE SDN. BHD.

- Gebeng, Pahang 380 KMTPA

## **PROPYLE**

Propylene, also called propene is an olefin with the chemical formula  $C_3H_6$ . A colourless gas, it is obtained from the thermal cracking of hydrocarbons ranging from natural gas liquids (ethane, propane and butane) to petroleum liquids (naphtha and gas oils).

**Product Applications** 

Pro **Specifi** 

	PRODUCT	DERIVATIVES		APPLICATIONS		
	Propylene	Plastics	Polypropylene	<ul> <li>Plastic for food industry and housewares.</li> <li>Interior trim and bumper systems for automotive industry.</li> <li>Toys production.</li> <li>Insulation material for electrical cables.</li> </ul>		
			Propylene Oxide	<ul> <li>Reinforced plastics for insulation material in construction, transportation and refrigeration applications.</li> <li>Cushioning material in furniture and bedding applications.</li> <li>Sealants and adhesives.</li> </ul>		
			Acrylonitrile	Thermoplastic polymer, insulation materials and packaging.		
			Acrylic Acid	<ul> <li>Used in adhesives, lacquers, dyestuffs and paper industries.</li> <li>Monomer for superabsorbent polymers for manufacturing of diapers, feminine hygiene and personal care products.</li> </ul>		
		Chemicals	2-Ethyl and Butanol	Pharmaceutical solvents, cosmetics, toiletries and liquid detergents.		

uct ations	COMPONENTS	UNITS	RESULTS	METHODS
	C1 + C2 + C2 =	% Weight	0.01 max	ASTM 2712-modified
	Acetylene	% Weight	0.0001 max	ASTM 2712-modified
	Propane	% Weight	0.5 max	ASTM 2712-modified
	Propylene	% Weight	99.5 min	ASTM 2712-modified
Ме	thyl Acetylene + Propadiene	% Weight	0.001 max	ASTM 2712-modified
	1,3-Butadiene	% Weight	0.0005 max	ASTM 2712-modified
	C4, C5 and heavier	% Weight	0.002 max	ASTM 2712-modified
	Total Nitrogen	ppm weight	0.5 max	ASTM D5453-modified
	Total Sulphur	ppm weight	0.3 max	ASTM D5453-modified
	Total Chloride	ppm mole	2 max	In house method
	СО	ppm mole	5 max	UOP 603-modified
	CO <sub>2</sub>	ppm mole	10 max	UOP 603-modified