



PCG **Methanol Plants**

PETRONAS CHEMICALS METHANOL LABUAN SDN. BHD. (PC METHANOL)

- Federal Territory of Labuan PC Methanol 1: 700 KMTPA
- PC Methanol 2: 1700 KMTPA

PETRONAS CHEMICALS FERTILISER (KEDAH) SDN. BHD. (PCFK)

- Gurun, Kedah 70 KMTPA

Product Applications

Methanol	DERIVATIVES		APPLICATIONS
	Formaldehyde	 Formalin Glues & Resins Methylenediphenyl Diisocyanate (MDI) Butanediol Pesticides 	• Antibacterial agent, disinfectant, adhesives, renovation & new building activities, automobile production, coatings, panel board and wood & furniture industries.
	Acetic Acid	Vinyl Acetate MonomerAcetic AnhydrideTerephthalic AcidSolvent Acetate	 Textiles, emulsion paints, solvents & coatings, durable output, automobile production and plastic packaging.
	Chemicals	 Methyl Methacrylate (MMA) Solvents Methylamines Chloromethane Dimethyl Ether (DME) Olefins 	 Clear plastic sheets, thickeners, propellant & aerosols and chemical intermediates.
	Fuel	 Methyl Tertiary Butyl Ether (MTBE) Fuel Cells Bio-Diesel Gasoline Blending Power Generation 	• Gasoline additives, new & environmentally friendly energy sources and power generation.

Prod Specific

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cations	CHARACTERISTICS	METHODS	LIMIT SPECIFICATIONS
	Acidity as Acetic Acid	ASTM D 1613-06	Less than 30 mg/kg
Acetone Content Ethanol Content		IMPCA 001-09	Less than 30 mg/kg
		IMPCA 001-09	Less than 50 mg/kg
	Methanol Purity	IMPCA 001-09	Min 99.85 % weight
Appearance Hydrocarbons Carbonisable Substances Colour		IMPCA 003-98	Clear and free of suspended matter
		ASTM D 1722-09	Pass test
		ASTM E 346-08	Less than colour std. 30
		ASTM D 1209-05 (reapprove 2011)	Less than colour std. 5
	Water Content	ASTM E 1064-12	Less than 0.1 % weight
Distillation Range @ 760mm Hg Non-volatile Matter Specific Gravity Permanganate Time @ 15°C Sulphur Iron Chloride		ASTM D 1078-11	Max. 1.0 °C to include 64.6° ± 0.1°
		ASTM D 1353-13	Less than 0.8 mg/100 ml
		ASTM D 4052-11	0.791-0.793 @ 20°C/20°C
		ASTM D 1363-06 (reapprove 2011)	Greater than 60 minutes
		ASTM D 5453-09	Less than 0.50 mg/kg
		ASTM E 394-09	Less than 0.10 mg/kg
		IMPCA 002-98	Less than 0.50 mg/kg
Odour		ASTM E 346-08	Odour-free