

Overview of PETRONAS Chemicals Group Berhad

PETRONAS Chemicals Group Berhad (PCG) is the leading integrated chemicals producer in Malaysia and one of the largest in Southeast Asia. It operates 19 world-class manufacturing sites in Malaysia, Asia-Pacific, Europe and North America. With a total combined production capacity of 15.4 million metric tons per annum (mtpa), it is involved primarily in manufacturing, marketing and selling a diversified range of chemical products, including olefins, polymers, fertilisers, methanol, other basic chemicals, derivative products and specialty chemicals.

Listed on Bursa Malaysia with more than three decades of experience in the chemicals industry, PCG is established as part of the PETRONAS Group to maximise value from Malaysia's natural gas resources.

PCG is committed to ensuring that its business practices are in line with globally recognised standards for Economic, Environment, Social & Governance (EESG) practices. It is currently listed in the FTSE4Good Bursa Malaysia (F4GBM) Index and the Dow Jones Sustainability TM World Index.





Alcohol	Carbon Chain	Miscibility in Water	
Methanol	1	High	
Ethanol	2	High	
Propanol	3	High	
Butanol	4	Moderate (balanced)	

For higher alcohols, butanol is able to provide proper balance of target properties when solvent-based products are formulated.

- 1. Viscosity
- 2. Flowing
- 3. Leveling
- 4. Curing rate
- 5. Coupling agents in waterborne coating

Applications

Usage in each industry

Industry	Application	Function	n-Butanol (NBA)	i-Butanol (IBA)
Paints & coatings	Paints & coatings	Carrier, solvent	٧	
	Surface coatings	Automotive polish additive	٧	٧
Cleaning products	Degreaser	Solvent	٧	
	Polisher and cleaners	Additives	٧	
	Varnish remover	Automotive paint cleaner additive	٧	
lnk	Ink	Solvent for dyes	٧	٧
Chemical industry	Raw material for chemical production	Chemical intermediate	٧	٧
Textile	Textile processing	Solubiliser/Additives	٧	
Fuel component	Gasoline	Additives i.e. octane booster	٧	
	Carburator	Prevent icing	٧	

Product Properties

Components	Unit	n-Butanol (NBA)	i-Butanol (IBA)
Butanol	wt%	99.8 min	0.1 max
Iso-butanol	wt%	0.1 max	99.5 min
Propanol	wt%	-	0.1 max
Other C4 compounds	wt%	-	0.2 max
Total C3 compound	wt%	-	0.1 max
Total carbonyl	wt%	-	0.07 max
Acidity	wt%	0.003 max	0.003 max
Water	wt%	0.05 max	0.1 max
Colour	PtCo	5.0 max	5.0 max
Butyl ether	wt%	0.02 max	-
Iron	ppm wt	0.3 max	-
Specific gravity	-	0.810-0.812	-
Suspended matter	-	Pass	-



For more information on PCG products

