

# PRODUCT DATA SHEET

## Diethylene Glycol Polyester Grade

Produced using technology licensed by The Dow Chemical Company.

### CHEMICAL DESCRIPTION:

Name : Diethylene Glycol  
 CAS number : 111-46-6  
 Formula : C<sub>4</sub>H<sub>10</sub>O<sub>3</sub>

Diethylene glycol is an organic compound. It is a colorless, practically odorless, poisonous, and hygroscopic liquid with a sweetish taste. It is miscible in water, alcohol, ether, acetone, and ethylene glycol. Compared to MEG, it has a higher boiling point, viscosity, and specific gravity.

### APPLICATIONS:

- Polyester resins, polyurethanes, plasticizers
- Antifreeze additive
- Softening Agent
- Chemical intermediates
- Solvents Coupler
- Unsaturated polyester resins
- Heat transfer agents or fluids
- Humectants

### TYPICAL PROPERTIES:

Physical Property*	Units	Typical Value
Physical appearance (25°C)	-	Colourless liquid
Molecular weight	g/mol	106.12
DEG content	wt%, min	99.0
Acidity	wt%, max	0.05
Boiling Point @ 760 mm Hg	°C	238-251
Specific Gravity @ 20/20°C	-	1.1170-1.1200
Refractive Index @ 20°C	nD	~1.44-1.45
Vapor Pressure @ 20°C	mmHg	0.06-0.08
Viscosity, dynamic @ 20°C	cP	~35-38
Surface tension @ 25°C	dynes/cm	~44-45
Solubility in Water @ 20°C	wt%	100
Electrical Conductivity @ 20°C	micromhos/cm	0.0042

\*These properties are typical but do not constitute specifications.

### FOR MORE INFORMATION

Please contact **PETRONAS Chemicals Group Berhad (PCGB)**

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MS ISO 9001:2000 REG. NO. AR4.088  
(DERIVATIVES PLANT)

MS ISO 14001 CERT. NO. 00081001

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