



上海威鹏化工有限公司

WPA Chemicals LIMITED

## TECHNICAL DATA SHEET

### Propylene Glycol

Formula:  $C_3H_8O_2$



Relative Molecular Mass: 76.09

It is a colorless liquid with steady viscosity and good water absorption. It is nearly odorless, inflammable and minutely toxic. Its viscosity (20°C), specific heat capacity (20°C) and latent heat of vaporization (101.3kpa) are respectively 60.5mpa.s, 2.49KJ/(kg. °C) and 711KJ/kg. It can be mixed and solved with alcohol, water and various organic agents.

PG is the raw material for preparing unsaturated polyester resin, plasticizer, surface active agent, emulsifying agent and demulsifying agent. It can also be used as mould inhibitor, antiseptic for fruit, ice inhibitor and moisture preserving agent for tobacco.

#### Packing, Storage and Transportation:

It should be packed in galvanized iron drums with the net weight of 200kg/drum.

It is inflammable, so it must be stored in a cool and well-ventilated place. It must be dealt with in the same way as inflammable chemical products.

#### COMPOSITION/SPECIFICATION

(It has been found to conform to the Quality System Standard: ISO9001: 2000):

Quality index	Index	
	TECH GRADE	HIGH GRADE
<i>PG content</i>	<i>99.50 % min</i>	<i>99.80 % min</i>
<i>Moisture</i>	<i>0.20 % max</i>	<i>0.10% max</i>

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<i>Density (20 °C)</i>	<i>1.035-1.040 g/cm<sup>3</sup></i>	<i>1.035-1.038 g/cm<sup>3</sup></i>
<i>Index of refraction</i>	<i>1.428-1.435n<sub>D</sub><sup>20</sup></i>	<i>1.431-1.435 n<sub>D</sub><sup>20</sup></i>
<i>Acidity mmol/100g</i>	<i>0.02</i>	<i>0.01</i>
<i>Distillation range(IBP-DP)</i>	<i>183-190 °C</i>	<i>184-190 °C</i>
<i>Colourity (Pt-Co)</i>	<i>10max</i>	<i>10max</i>
<i>Appearance</i>	<i>Colorless, Viscous, transparent liquid</i>	

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