Sahastraa Exports Pvt. Ltd.

Regd. Off.: Navkar Plaza, 6th Floor,
Bajaj Road, Vile Parle (W), Mumbai - 56. INDIA
Tel. : +91 022 6787 9700 (100 Lines), Fax : +91 022 6679 3257
E-mail : info@sahastraa.com, website : www.sahastraa.com

Product Description

Propylene Glycol, Industrial (PGI) Grade, (CAS #57-55-6, 1,2-Propanediol) is a high purity material produced by the high temperature and high pressure hydrolysis of propylene oxide (PO) with excess water.
PGI is a colorless, water soluble, hygroscopic liquid with a characteristic glycol odor, medium viscosity, low vapor pressure and low toxicity.

Structure

CH_3-CH(OH)-CH_2OH; $C_3H_8O_2$

Typical Properties

Property	Typical Value
Molecular weight (g/mol)	76.10
Boiling point, 101.3 kPa (1 atm)	187.4°C (369.3°F)
Distillation range, 101.3 kPa (1 atm)	186-189°C (367°F-372°F)
Vapor pressure 20°C (68°F) 25°C (77°F)	 0.011 kPa (0.08 mm Hg) 0.017 kPa (0.13 mm Hg)
Freezing point	Supercools
Pour point	< -57°C (-71°F)
Specific gravity 20/20°C (68/68°F) 25/4°C (77/39°F) 60/4°C (140/39°F)	 1.038 1.033 1.007
Refractive index n20/D, 20°C (68°F)	1.4310-1.4330
Viscosity, 25°C (77°F) 60°C (140°F)	48.6 centipoise (mPa.s) 8.42 centipoise (mPa.s)
Specific heat, 25°C (77°F) Surface tension, 25°C (77°F)	2.51 J/(g°K) (0.60 Btu/lb/°F) 36 mN/m (36 dynes/cm)
lash point, Pensky-Martens Closed Cup	104°C (220°F)
Autoignition temperature	371°C (700°F)
Thermal conductivity, 25°C (77°F)	0.2061 W/(m°K) (0.1191 Btu $hr^{-1}ft^{-1}°F^{-1}$)
Electrical conductivity, 25°C (77°F)	10 micro S/m (0.1 * 10-7 mhos/cm)
Heat of formation	-422 kJ/mol (-101 Kcal/g-mol)
Heat of vaporization, 25°C (77°F)	67 kJ/mol (379 Btu/lb)

These properties do not constitute specifications.

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Classification/Registry Numbers

CAS number	57-55-6
EINECS number	200-338-0

Applications

- Flotation agent
- Extraction solvent

Storage and Packaging Recommendations

PGI has a shelf life of one year when stored below 40°C (104°F) in closed containers away from sources of UV light.

END OF MSDS