



## MONO PROPYLENE GLYCOL (MPG)

### HIGH PURITY, MULTI-USE SOLVENT

Manufactured by: Sidhe Petrochemicals, Gujarat

GMP & GLP Certified | FDA-Approved Facility | Halal & Kosher Certified Facility

Sidhe Petrochemicals proudly presents Mono Propylene Glycol (MPG), a high-purity, versatile solvent suitable for diverse industrial and consumer applications. Produced at our state-of-the-art GMP (Good Manufacturing Practices) and GLP (Good Laboratory Practices) certified facility, our MPG complies with the highest global quality benchmarks.

#### APPLICATIONS IN PHARMACEUTICALS, FOOD-FLAVOUR, COSMETICS, PERSONAL CARE & FRAGRANCES SEGMENTS

MPG is widely used as a humectant, solvent, carrier, and stabilizer across multiple sectors:

- Pharmaceuticals:** Used as a solvent for oral, injectable and topical formulations.
- Food & Flavour Industry:** Acts as a food additive (humectant, carrier, and anti-caking agent).
- Cosmetics & Personal Care:** Functions as a base for lotions, deodorants, shampoos and creams.

#### PRODUCT SPECIFICATIONS (As per IP 2022)

Test Name	Unit	Results of a typical Batch	Specifications	Method of Test
Description	--	Clear, Colourless, viscous Liquid	Clear, Colourless, viscous Liquid, practically odourless	IP 2022
Solubility	--	Miscible with water, ethanol, etc.	Miscible with water, ethanol (95%), acetone, chloroform	IP 2022
Identification A by IR	--	Complies	Should match reference spectrum	IP 2022
Identification B (Di- & Ethylene Glycol)	--	DEG/EG not detected	DEG & EG $\leq$ 0.10%	IP 2022
Identification C (RT by GC)	--	Complies	Retention time matches standard	IP 2022
pH	--	6.04	5.0 - 7.0	IP 2022
Heavy Metals	ppm	< 5	$\leq$ 5 ppm	IP 2022
Refractive Index @ 20°C	--	1.431	1.431 - 1.433	IP 2022
Chloride	ppm	< 70	NMT 70 ppm	IP 2022
Sulphate	ppm	< 60	NMT 60 ppm	IP 2022

Acidity	--	Nil	NMT 0.05 ml of 0.1M NaOH	IP 2022
Relative Density @ 25°C	--	1.0357	1.035 - 1.040	IP 2022
Colour	Hazen Unit	< 10	< 10	IP 2022
Sulphated Ash	% w/w	0.003	Max. 0.007	IP 2022
Oxidising Substance	--	0.09 ml of 0.05M Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> required	NMT 0.2 ml of 0.05M Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> required	IP 2022
Reducing Substance	--	No change in solution	Solution does not change appearance	IP 2022
Distillation Range	°C	186 - 188	184 - 190	IP 2022
Water Content	% w/w	0.0591	NMT 0.2	IP 2022
Assay	% w/w	100	NLT 99.5	IP 2022

#### **REGULATORY COMPLIANCE & SAFETY STANDARDS**

- Manufactured under FDA-approved GMP & GLP conditions.
- Halal and Kosher certified facility.
- Conforms to IP 2022 specifications.

#### **STORAGE & PACKAGING**

- Available in food-grade epoxy-coated steel drums and HDPE containers.
- **Shelf Life:** More than two years from date of manufacture under cool, dry storage conditions, away from direct sunlight. Retesting is recommended after two years.

#### **WHY CHOOSE SIDHE PETROCHEMICALS?**

- ✓ GMP & GLP Certified Manufacturing Facility
- ✓ Consistent Purity & Compliance with IP Standards
- ✓ Stringent Quality Control & Analytical Testing
- ✓ Regulatory Certifications (Halal, Kosher, FDA)
- ✓ Prompt Customer Support & Reliable Supply Chain

**For inquiries, technical specifications, or samples, please contact:**

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