



**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   | ≤ 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 & FDA compliant Manufacturing Facility
- ✓ Consistent Purity & Compliance with IP/ BP/ USP Standards
- ✓ Stringent Quality Control & Analytical Testing
- ✓ Regulatory Certifications (Halal, Kosher, FDA)
- ✓ Prompt Customer Support & Reliable Supply Chain

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

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