# QINGDAO JINFOREST CHEM TECH CO.,LTD.

Huangdao District, Qingdao City, Shandong Province, China

## Technical Data Sheet

### 1. Product Identification

**Product Name:** Propylene Carbonate
**CAS No.:** 108-32-7
**Molecular Formula:** $C_4H_6O_3$
**Molecular Weight:** 102.09 g/mol
**Product Grade:** Industrial Grade
**Appearance:** Clear liquid, free from visible suspended matter

| Items | Index | | Results |
|---|---|---|---|
| | Battery Grade | Industrial Grade | |
| Appearance and Smell | Transparent liquid, no mechanical impurities and suspended matter, no odor | | Transparent liquid, no mechanical impurities and suspended matter, no odor |
| Propylene carbonate, ω /% | ≥99.99 | ≥99.8 | 99.9908 |
| Chroma/Hazen Unit (Platinum-Cobalt Color Number) | ≤10 | ≤15 | 2 |
| Propylene oxide, ω /% | ≤0.0005 | ≤0.2 | 0.0004 |
| Propylene glycol, ω /% | ≤0.001 | ≤0.2 | 0.0024 |
| Dipropylene glycol, ω /% | ≤0.003 | - | - |
| Tripropylene glycol, ω /% | ≤0.0015 | - | - |
| Hydroxyacetone, ω /% | Report | - | - |
| Water content, ω /% | ≤0.003 | ≤0.1 | 0.0013 |
| Conclusion | Qualified | | |

## 2. Typical Applications

Propylene Carbonate is used in a range of industrial applications, including:

**Lapping Slurries:** Potential use as a solvent component in lapping slurry formulations, subject to compatibility testing and customer qualification.

**Industrial Solvent Systems:** Used in selected solvent-based formulations.

**Chemical Formulations:** Suitable for applications requiring a polar aprotic solvent.

**Coatings and Specialty Formulations:** Potential use where its solvency characteristics meet formulation requirements.

The suitability of Propylene Carbonate for a specific application should be evaluated through appropriate testing under the intended operating conditions.

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## 3. Packaging

Propylene Carbonate can be supplied in suitable industrial packaging according to customer requirements and availability.

**Available Packaging Options:**

IBC totes

Steel drums

Other packaging options upon request, subject to confirmation

Net weight, gross weight, packaging dimensions, and filling quantity shall be confirmed according to the selected packaging type and shipment arrangement.

All packaging should be suitable for the product and comply with applicable transport and handling requirements.

## 4. Storage & Handling

Store in tightly closed, properly labeled containers.

Keep containers in a cool, dry, and well-ventilated area.

Protect the product from moisture and contamination.

Avoid contact with incompatible materials.

Use appropriate personal protective equipment in accordance with the Safety Data Sheet (SDS) and workplace risk assessment.

Keep containers securely closed when not in use.

Follow applicable local regulations and site-specific chemical handling procedures.

For detailed information regarding hazards, first aid, exposure controls, firefighting, and transport precautions, refer to the latest Safety Data Sheet (SDS).

**5. Disclaimer**

The information provided in this Technical Data Sheet is intended for general technical guidance and product evaluation. It is based on information available at the time of preparation and does not constitute a guarantee of product performance in any specific application.

Customers are responsible for verifying product suitability, compatibility, and performance under their intended processing and application conditions.

Actual product specifications and batch quality should be confirmed against the applicable product specification and Certificate of Analysis (COA). Packaging details and availability are subject to confirmation at the time of order.

The supplier reserves the right to update technical information when necessary. The latest approved documentation should be consulted before use.