

Technical Data Sheet (TDS)

1. Product Overview

- Product Name:1-Methoxy-2-propanol
- English Name:1-Methoxy-2-propanol
- CAS Number:107-98-2
- Formula:C₄H₁₀ O₂
- Molecular Weight:90.12 g/mol
- Product Characteristics:High-purity colorless liquid, mild ether-like odor, excellent solvency. Fully miscible with water and organic solvents, low volatility. Stable under normal use, suitable as solvent and chemical intermediate.

2. Technical Specifications

Item	Specification
Appearance	Colorless liquid
Purity (C ₄ H ₁₀ O ₂)	≥ 99.0%
Boiling Point	120-122°C
Melting Point	-97°C
Water Content	≤ 0.3%
Refractive Index (25°C)	1.4020-1.4040
Flash Point (Closed Cup)	39°C
Density (25°C)	0.915-0.920 g/cm ³
Viscosity (25°C)	1.5-2.0 mPa·s
Solubility	Fully miscible with water and common organic solvents

3. Product Advantages

- High purity and excellent solvency for various substances.
- Good compatibility with water and organic solvents.
- Low volatility and mild odor.
- Stable chemical properties for wide application.

4. Application Fields

- Coatings & Inks:Solvent for acrylic, epoxy, and polyurethane coatings; ink solvent.
- Cleaning Products:Industrial cleaners, electronics cleaning (circuit boards).
- Chemical Synthesis:Intermediate for pharmaceuticals, pesticides, surfactants.
- Cosmetics:Solvent and humectant in skin care and hair care products.
- Other:Paint thinners, adhesive solvents, textile auxiliaries.

5. Usage Methods

- Coatings:Add 10-30% (mass ratio) to coating formulation; mix evenly.
- Cleaning:Use neat or dilute with water (1:10-1:50) for cleaning.
- Chemical Synthesis:Use in specified molar ratios; react at 20-80°C.



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

- Optimal Conditions:Apply at 15-40°C; avoid strong oxidizing agents and open flames.

6. Packaging & Storage

- Packaging:20 kg HDPE drums, 200 kg HDPE drums, 1000 kg IBC totes.
- Storage:Cool, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); keep sealed; away from oxidizing agents, heat, sparks.
- Shelf Life:24 months (unopened).
- Transportation:Handle as UN1294; avoid collision, sunlight, open flames.

7. Safety & Protection

- Wear nitrile gloves, safety goggles, and respirator (vapor exposure) during handling.
- Operate in well-ventilated area; no smoking nearby.
- Avoid skin/eye contact and ingestion; rinse immediately if contact occurs.

8. Quality Assurance

- Manufactured under ISO 9001 quality management system.
- Each batch accompanied by COA.
- Provide technical support for application and formulation.



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