

# **Technical Data Sheet (TDS)**

## **4-Methylmorpholine**

Prepared by Tuoda Industry Limited

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### Product Description

4-Methylmorpholine is a colorless liquid with a characteristic amine-like odor. It is commonly used as an intermediate in the production of pharmaceuticals, agrochemicals, and as a solvent and catalyst component in organic synthesis.

### Applications

- Intermediate for pharmaceutical and agrochemical synthesis.
- Solvent and reaction catalyst in organic synthesis.
- Fine chemical manufacturing.

### Chemical Information

<b>Chemical Name:</b>	4-Methylmorpholine
<b>Chemical Formula:</b>	C <sub>5</sub> H <sub>11</sub> NO
<b>CAS No.:</b>	109-02-4
<b>EINECS/ELINCS No.:</b>	203-639-5
<b>Molecular Weight:</b>	101.15 g/mol

### Specifications

<b>Appearance</b>	Colorless liquid
<b>Purity</b>	>= 99%
<b>Density at 20°C</b>	0.914 g/cm <sup>3</sup>
<b>Boiling Point</b>	115-116°C

### Typical Properties

<b>Melting Point</b>	-66°C
<b>Flash Point</b>	23°C (closed cup)
<b>Solubility</b>	Miscible with water and organic solvents
<b>Odor</b>	Amine-like odor

### Packaging

Available in steel drums, plastic drums, or customized packaging solutions compliant with IMDG regulations.

### Storage and Handling

- Store in a tightly closed container in a cool, dry, and well-ventilated area.
- Keep away from heat, sparks, and open flames.
- Handle under inert gas atmosphere if necessary.

### Safety and Regulatory Information

- Classified as flammable liquid and skin/eye irritant under GHS.
- Refer to MSDS for detailed safety handling procedures.
- Compliant with TSCA (US) and EINECS (EU) listings.

### Disclaimer

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