

## Wannate HMDI

### Description

Wannate HMDI is a liquid cycloaliphatic diisocyanate. It is a colorless or pale yellow liquid with low viscosity and characteristic odor.

### Application

Wannate HMDI is raw material for polyurethanes. Polyurethane resins based on Wannate HMDI have a high degree of flexibility coupled with good mechanical strength. They are resistant to abrasion and hydrolysis and retain gloss and physical properties upon weathering. A unique feature of Wannate HMDI is its ability to form optically clear polyurethanes when combined with suitable polyol coreactants. Products based on Wannate HMDI may be useful in coatings for flooring, roofing, maintenance, and textile applications as in cast elastomers, potting and encapsulation compounds, optical products, medical products, adhesives and sealants.

### Typical properties

Properties	Typical Value	Method
Assay,	≥ 99.5%	GC
NCO Content	≥ 31.8%	GB 12009.4
Color Value (Pt-Co)	≤ 30	GB 3143
Freezing Point	≤ 25 °C	GB 7533
Density at 25 °C	approx. 1.07 g/cm <sup>3</sup>	GB 4472
Flash point (P-M Closed Cup)	approx. 210 °C	GB/T 261
Viscosity at 25 °C, mpa.s	approx. 30	GB 12009.3
Hydrolyzable chlorides, ppm	10 maximum	Internal method
Total chlorides, ppm	1000 maximum	Internal method

### Package

200 L iron drum, 200 kg/drum

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### Storage

Wannate HMDI is sensitive to moisture and therefore should be stored in its sealed original containers. When stored under the proper conditions at room temperature, the product will remain stable for at least 9 months. Water or moisture in the air reacts with the product generate pressure. If partially filled containers are stored, it is advisable to blanket the liquid surface with dry nitrogen before sealing.

At approx. 25 °C, crystals will generate in Wannate HMDI and setting on the bottom. The product should therefore be heated to 40-50 °C and homogenized before use. This process also allows the use of product which has already crystallized.

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The shelf life for Wannate HMDI is 9 months after receipt of material by customer.

**Safety**

It is suggested that Wannate HMDI be warmed for 16-24 hours at 104 ~ 122 °F (40 ~ 50 °C). When the crystal is melted, the container should be agitated by rolling or stirring, until the contents are homogenous. Since heated Wannate HMDI (104 ~ 122 °F) will generate vapors more rapidly than product at 77 °F, be sure to follow the precautions listed on the MSDS in the section entitled.

Personal Protection - whenever you open a heated container of Wannate HMDI, it will be necessary to transfer Wannate HMDI from the original containers. New containers should be of plain clean steel, or steel lined with a suitable coating. If Wannate HMDI was transferred to glass, acid-washed amber or Pyrex glass, bottle caps should be aluminum foil lined for the best moisture seal. Bung plugs used for larger containers.

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**For further information please contact us:**

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For more information, please refer to our MSDS or contact our customer service center.

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