

Dimethylthiotoluenediamine (DMTDA)

Aromatic diamine isomer mixture for selected polyurethane chain extension and epoxy curing systems.

CAS No. 106264-79-3	EC / List No. 403-240-8	Transport Class 9 — Environmentally hazardous liquid
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Product Information

DMTDA is dimethylthiotoluenediamine, CAS 106264-79-3, a commercial aromatic diamine isomer mixture containing methylthio functionality. It is used as a curing and chain-extending ingredient in selected reactive polymer systems. It differs chemically and kinetically from DETDA.

Specifications

Parameter	Specification
Appearance	Yellow transparent liquid
Assay	≥95.0 %
Gardner colour	≤8
Water	≤0.10 %
Amine value	525–535 mg KOH/g
Toluenediamine	≤0.10 %

Supply specifications follow the stated ZXCHEM TDS. Select the grade against the intended process and evaluate the complete formulation.

Typical Properties

Property	Typical Value
Molecular formula	C9H14N2S2
Molecular weight	214.35 g/mol

Applications

Cast polyurethane elastomers: Aromatic diamine chain extender for selected elastomer systems. Establish equivalent ratio, mixing window and final mechanical properties.

Coatings and adhesives: Reactive curing ingredient for selected polyurethane coating and adhesive development. Evaluate viscosity, pot life, conversion and aged adhesion.

Epoxy curing systems: Diamine curing component for selected epoxy formulations. Test cure kinetics, gel time, conversion and finished thermal performance.

Packaging / Storage

Item	Information
Packing	250 kg iron drums / IBC / ISO tank
Storage	Keep closed in a cool, dry, ventilated area, protected from heat and air exposure. Retain the specified nitrogen blanket and separate from acids and oxidizers.
Handling	Use controlled closed liquid transfer with effective ventilation. Avoid skin contact and aerosol formation; wear compatible chemical gloves, goggles and protective clothing. Capture leaks and contaminated wash water.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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