

Diethyltoluenediamine (DETDA)

Aromatic diamine chain extender and curing agent for selected polyurethane, polyurea and epoxy systems.

CAS No. 68479-98-1	EC / List No. 270-877-4	Transport Class 9 — Environmentally hazardous liquid
-----------------------	----------------------------	--

Product Information

DETDA is diethyltoluenediamine, CAS 68479-98-1, a commercial aromatic diamine isomer mixture. Selected polyurethane and polyurea systems use it as a chain extender, and selected epoxy systems use its amine functionality in curing. It differs from methylthio-substituted DMTDA.

Specifications

Parameter	Specification
Appearance	Yellow transparent liquid
Total diamine	≥98.0 %
2,4-isomer	75–82 %
2,6-isomer	17–24 %
Water	≤0.15 %

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	C ₁₁ H ₁₈ N ₂
Molecular weight	178.28 g/mol

Applications

Polyurethane chain extension: Aromatic diamine for selected cast and RIM polyurethane systems. Evaluate equivalent ratio, mixing, reaction profile and aged mechanical performance.

Spray polyurea systems: Reactive chain-extending component for selected polyurea formulations. Assess equipment conditions, cure speed and final system properties.

Epoxy resin curing: Amine curing ingredient for selected epoxy systems. Test viscosity, gel time, conversion and finished thermal behaviour.

Packaging / Storage

Item	Information
Packing	200 kg drums / 1,000 kg IBC
Storage	Keep tightly closed under the specified nitrogen blanket, above 0°C, in a dry, ventilated area. Protect from air, moisture, sunlight and heat; separate from reactive incompatible materials.
Handling	Use controlled closed liquid transfer and effective ventilation. Prevent skin contact and mist exposure; wear compatible gloves, goggles and protective clothing. Keep isocyanates out of storage and transfer equipment.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / Email	+86-21-54265599 / sales@zxchem.com.cn
Website	www.zxchem.com