

Ethylene Glycol Diglycidyl Ether (EGDGE)

Low-viscosity difunctional reactive-diluent development for epoxy formulations.

CAS No. 2224-15-9	EC / List No. 218-746-2	Transport Non-dangerous goods
----------------------	----------------------------	----------------------------------

Product Information

Ethylene glycol diglycidyl ether, abbreviated EGDGE, is a difunctional aliphatic glycidyl ether used in selected epoxy formulations. Its reactive epoxy groups contribute to the cured network. It is distinct from ethylene glycol and from longer-chain polyethylene glycol diglycidyl ethers.

Specifications

Parameter	Specification
Appearance	Colorless transparent liquid
Color, APHA	≤60
Viscosity at 25°C	15–30 mPa·s
Epoxide equivalent weight	126–135 g/eq
Epoxy value	0.74–0.79 eq/100 g
Hydrolyzable chloride	≤0.50 %
Inorganic chlorine	≤50 mg/kg
Moisture	≤0.10 %
Starting evaluation addition	10–30 parts per 100 parts epoxy resin

Supply specifications follow the local 2026 ZXCHEM TDS and apply to this commercial grade. Test the complete formulation for the intended application.

Typical Properties

Property	Typical Value
Molecular formula	C ₈ H ₁₄ O ₄
Molecular weight	174.20 g/mol

Applications

Epoxy casting and coating systems: Reactive diluent for selected casting, embedding, flooring and coatings. Evaluate mixing viscosity, pot life, cure and complete-system service performance.

Adhesive and composite formulations: Component for selected resin systems. Recalculate cure stoichiometry using blend EEW, and assess adhesion, impregnation and mechanical-property retention.

Specialty resin and textile treatment: Reactive component for selected development work. Assess wetting, conversion, durability and the application-specific compliance requirements.

Packaging / Storage

Item	Information
Packing	20 kg / 200 kg drums / 1,000 kg IBC
Storage	Keep tightly closed in a cool, dry, ventilated area away from sunlight and heat. Separate from oxidizers, strong acids and uncontrolled contact with curing agents.
Handling	Use controlled transfer and local ventilation where mist can form. Wear compatible chemical-resistant gloves, splash goggles and protective clothing; avoid contact with uncured epoxy liquid.

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