

Trimethylolpropane Triglycidyl Ether (TMPTGE)

Multifunctional aliphatic reactive-diluent and crosslinker development for epoxy formulations.

CAS No. 30499-70-8	EC / List No. 608-489-8	Transport Non-dangerous goods
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Product Information

Trimethylolpropane triglycidyl ether, abbreviated TMPTGE, is a multifunctional aliphatic epoxy reactive diluent. Its epoxy groups can participate in curing rather than acting only as an evaporating solvent. The offer is a commercial technical grade identified by CAS 30499-70-8.

Specifications

Parameter	Specification
Appearance	Colorless transparent liquid
Color, APHA	≤40
Viscosity at 25°C	100–200 mPa·s
Epoxy value	0.69–0.74 eq/100 g
Epoxide equivalent weight	135–145 g/eq
Hydrolyzable chloride	≤0.30 %
Inorganic chlorine	≤20 mg/kg
Moisture	≤0.10 %

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 ₁₅ H ₂₆ O ₆
Molecular weight	302.36 g/mol

Applications

Epoxy coatings and flooring: Reactive diluent for selected coating and flooring formulations. Evaluate viscosity, wetting, pot life, cure and film performance as a complete system.

Casting and adhesives: Multifunctional epoxy component for selected casting and adhesive systems. Adjust cure stoichiometry by measured EEW and test shrinkage, hardness and adhesion.

Composites and fibre treatment: Reactive component for selected composite and fibre-treatment formulations. Evaluate impregnation, cure conversion and retention of required mechanical properties.

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)
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