

Diglycidyl 1,2-Cyclohexanedicarboxylate

Low-viscosity difunctional epoxy raw material for electrical casting, adhesives, composites and UV-curable systems.

CAS No. 5493-45-8	EC / List No. 226-826-3	Transport Non-dangerous goods
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Product Information

Diglycidyl 1,2-Cyclohexanedicarboxylate, also called diglycidyl hexahydrophthalate, is a difunctional epoxy ester with formula C₁₄H₂₀O₆ and molecular weight 284.31 g/mol. Its epoxy functionality and relatively low viscosity make it useful in selected reactive-diluent and resin formulation systems.

Specifications

Parameter	Specification
Appearance	Colorless to pale yellow liquid
Color	≤100 APHA
Viscosity at 25°C	300–1,200 mPa·s
Epoxy value	0.55–0.65 eq/100g
Epoxy equivalent weight	153–182 g/eq
Hydrolyzable chloride	≤1.50 %
Inorganic chlorine	≤20 mg/kg
Moisture	≤0.10 %

Supply limits and packaging follow the matching local 2026 ZXCHEM TDS. The epoxy-value unit is eq/100g. The local typical flash-point entry≈189°C is not used as a guaranteed acceptance value; the selected manufacturer SDS gives 113°C closed-cup for its material.

Typical Properties

Property	Typical Value
Molecular formula	C ₁₄ H ₂₀ O ₆
Molecular weight	284.31 g/mol

Applications

Electrical insulation and casting: Low-viscosity epoxy raw material for selected potting, casting and LED encapsulation formulations. Evaluate flow, cure conditions and required final dielectric performance.

Adhesives and composites: Reactive epoxy component for adhesive and reinforced-material systems. Assess substrate compatibility, cure behavior and mechanical performance in the complete formulation.

UV-curable inks and coatings: Epoxy functionality for selected cationically cured coating and ink development. Match photoinitiator, resin compatibility and cure conditions to the intended application.

Packaging / Storage

Item	Information
Packing	25 kg / 200 kg drums / 1,000 kg IBC
Storage	Keep tightly sealed in a cool, dry, ventilated place. Segregate acids, bases and strong oxidizers; protect from unnecessary heat and contamination by reactive hardeners.
Handling	Use suitable chemical-resistant gloves, goggles and protective clothing with adequate ventilation. Avoid skin and eye contact and control mist during transfer or heated processing. Manage cure heat when mixing with reactive components.

Company Contact

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