

Bisphenol A Diglycidyl Ether

Liquid bisphenol-A epoxy raw material for coatings, adhesives, composites and electrical insulation.

CAS No. 1675-54-3	EC / List No. 216-823-5	Transport Class 9 — Environmentally hazardous
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Product Information

Bisphenol A Diglycidyl Ether, often called DGEBA or BADGE, is the reactive backbone of many bisphenol-A epoxy systems. This listing follows the legacy product identity CAS 1675-54-3. Formula C₂₁H₂₄O₄ and molecular weight 340.41 g/mol describe the identified component, while commercial epoxy-material composition can include related oligomers.

Specifications

Parameter	Specification
Appearance	Transparent liquid without mechanical impurities
Color, APHA	<30
Epoxy equivalent	183–190 g/eq
Hydrolyzable chlorine	≤0.050 %
Volatile content at 150°C / 40 min	<0.30 %
Viscosity at 25°C	10,000–14,000 mPa·s

Technical values follow the matching legacy ZXCHEM TDS. Epoxy-equivalent unit is expressed as g/eq rather than its old g/mol label; the numerical range is preserved. Formula and molecular weight describe the DGEBA component, not a certified complete oligomer distribution.

Typical Properties

Property	Typical Value
Molecular formula	C ₂₁ H ₂₄ O ₄
Molecular weight	340.41 g/mol (component)

Applications

Protective and industrial coatings: Reactive epoxy raw material for corrosion-protection and other industrial coating systems. Select curing agent, pigment package and cure schedule to meet the intended performance requirements.

Adhesives and fiber composites: Epoxy component for selected structural adhesives and reinforced composite matrices. Evaluate viscosity, wet-out, bond performance and heat generated during curing.

Electrical insulation and potting: Resin component for selected casting, potting and electrical-insulation formulations. Assess processing viscosity, cure shrinkage and dielectric requirements in the completed system.

Packaging / Storage

Item	Information
Packing	240 kg net in 200 L steel drums; bulk or agreed packaging
Storage	Store in the original sealed package in a dry, ventilated area at 10–40°C; do not allow storage temperature below 2°C. Protect from contamination and segregate reactive hardeners.
Handling	Avoid resin contact with skin and eyes and control heated-process vapors. Wear suitable chemical-resistant gloves, goggles and protective clothing. Use controlled mixing and manage heat generation when introducing reactive hardeners.

Company Contact

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