

1,4-Butanediol Dimethacrylate (BDDMA)

Difunctional methacrylate monomer for selected acrylic crosslinking, reactive resin and elastomer systems.

CAS No. 2082-81-7	EC / List No. 218-218-1	Transport Non-dangerous goods
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Product Information

1,4-Butanediol dimethacrylate, BDDMA, CAS 2082-81-7, has two methacrylate groups linked by a four-carbon chain. It is a difunctional crosslinking monomer for selected acrylic and reactive polymer systems. It differs from 1,4-butanediol diglycidyl ether, which uses epoxy functionality.

Specifications

Parameter	Specification
Appearance	Clear colorless to pale-yellow liquid
Purity	≥90.0 %
Acid value, stated TDS basis	≤0.10 %
Water	≤0.10 %
Colour	≤100 APHA
Inhibitor	100±10 ppm

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	C12H18O4
Molecular weight	226.27 g/mol

Applications

Acrylic crosslinking systems: Difunctional monomer for selected acrylic polymers. Assess crosslink density, conversion, viscosity and mechanical properties.

Reactive and UV-curing resins: Reactive ingredient for selected curing systems. Establish initiator balance, cure profile, shrinkage and final performance.

Adhesives and specialty coatings: Monomer for selected adhesive, wire and cable coating systems. Test compatibility, cure response and aged film or bond properties.

Packaging / Storage

Item	Information
Packing	200 kg plastic drums
Storage	Keep in the original inhibited condition in cool, controlled storage, protected from heat and sunlight. The matched reference recommends 4°C. Avoid initiators and loss of stabilizer; retain the stabilizer-specific headspace requirements.
Handling	Use controlled liquid transfer or local extraction. Wear compatible chemical gloves, goggles and protective clothing; prevent skin contact and aerosol formation. Control temperature during reactive processing.

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