



# 1,4-Butanedioldimethacrylate

BDDMA



**1,4 Butanedioldimethacrylate (1,4 BDDMA)** is a colourless, difunctional methacrylic monomer which can be used as a comonomer in free radical polymerization. It is a non-flammable liquid, with a low volatility and a moderate solubility in water.

It is widely used as a reactive diluent in unsaturated polyester and vinyl ester gel coat and composite formulations, to improve mechanical properties. It can be also used as a reactive diluents for electrical insulation varnishes. As co-agent for rubber cross-linking to replace volatile plasticizers in plastisols or improve mechanical properties of plastic films and artificial marble resins. It also finds use in chemical fixings and anchoring bolts.

## Major uses:

**(Acrylic Resins / Adhesives and Sealants / Automotive and Industrial Coatings / UV Cured Systems / etc.)**

- Unsaturated polyesters
- Chemical anchoring
- Wire and cable coatings
- Acrylic floorings
- Artificial marble
- UV curable wood coatings

## Parameters

Chemical Formula	$C_{12}H_{18}O_4$	
CAS Nbr.	2082-81-7	
EINECS-number:	218-218-1	
	<b>Grade one</b>	<b>High Performance</b>
Appearance	Clear, colourless liquid	Clear, colourless liquid
Purity	min. 99.00 %	min. 97.00 %
Color (Pt-Co)	max. 100	max. 50
Acid value (mgKOH/g)	max. 0.3	max. 0.2
Water Content (Karl Fischer)	max. 0.20 %	max. 0.20 %
Inhibitor (MEHQ)	100 – 400 ppm	100 – 400 ppm

1,4 BDDMA is available in 200 kg drums / 1.000 kg IBC (also explosive protected) or in iso tanks.

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