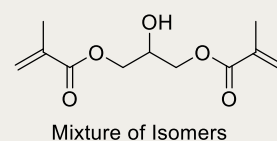


Product Information  
**VISIOMER® GDMA**



## Glycerol dimethacrylate

CAS-No.: 28497-59-8  
 1830-78-0

### Quality on supply

Appearance: yellowish liquid  
 Odor: slightly ester like

### Standard specification

|                              |                   | Test Method                              |
|------------------------------|-------------------|------------------------------------------|
| Reactive ester content       | min. 95.0 %       | M2-216 (GC)                              |
| Diester content (Isomer mix) | min. 85.0 %       | M2-216 (GC)                              |
| Triester content             | max. 3.0 %        | M2-216 (GC)                              |
| Acid content                 | max. 1.0 %        | M4 (acid-base titr., calculated as GMAA) |
| Water content                | max. 0.50 %       | M3 (according to K. Fischer)             |
| Color                        | max. 200          | M5 (Pt-Co)                               |
| Stabilization                | 200 ± 20 ppm MEHQ | M1-1 (HPLC)                              |

Following data are not part of the product specification but serve as benchmarks.

### Physical Data

|                     |                                             |
|---------------------|---------------------------------------------|
| Molecular weight    | 228.2 g/mol                                 |
| Density             | 1.117 g/cm <sup>3</sup> (20 °C) (DIN 51757) |
| Refractive index    | 1.473 (20 °C)                               |
| Melting point       | –68 °C (1,013 hPa) (OECD 102)               |
| Boiling point       | > 110 °C (1,013 hPa) (OECD 103)             |
| Viscosity (dyn)     | 50 mPa·s (23 °C) (Brookfield)               |
| Flash point         | 153 °C (ASTM D93/Pensky Martens Closed Cup) |
| Solubility in water | app. 12 mg/l (20 °C) (OECD 105)             |

### Registration

|                  |            |
|------------------|------------|
| REACH            | registered |
| included in TSCA | +          |

### General Hints

For information about health protection and shipment see our Safety Data Sheet

### Application

Crosslinking agent for the free radical polymerization: photoresists, photopolymer printing plates, dental compounds and reactive adhesives. Coagent for peroxide crosslinking of elastomers.

**Shelf life** of the standard stabilized product: 6 months at max. 30 °C from date of delivery

Ref.–No.: VISIOMER® GDMA / VM 044–e – 01/2021

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

\* = registered trademark

**Evonik Operations GmbH**  
Specialty Methacrylates  
Kirschenallee  
64293 Darmstadt  
Germany

visiomer@evonik.com  
**www.visiomer.com**  
**www.evonik.com**