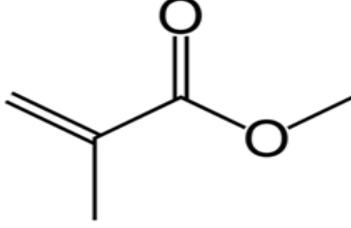


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## METHYL METHACRYLATE



**IUPAC NAME:** methyl 2-methylprop-2-enoate

**CHEMICAL FORMULA:** C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>, CC(=C)C(=O)OC

**CAS NO:** 80-62-6

**MOLECULAR WEIGHT:** 100 g/mol

**PACKING:** Bulk, 1000 KG

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### PRODUCT DESCRIPTION:

Methyl Methacrylate (MMA) is an ester of Methacrylic Acid and is used as a raw material in the synthesis of polymers. MMA is a monofunctional monomer containing a characteristic highly reactive Methacrylate group and a cyclic hydrophobic group. It can form homopolymers and copolymers with (meth)acrylic acids and salts, amides, esters, (meth)acrylates, acrylonitrile, maleic acid esters, vinyl acetate, vinyl chloride, vinylidene chloride, styrene, butadiene, and other monomers.

### PROPERTIES:

- Hydrophobicity
- Hardness
- Adhesion
- Weather resistance

### APPLICATION AREAS:

Methyl Methacrylate (MMA) is used in the production of organic glass, coatings, lubricant additives, plastics, adhesives, wood impregnating agents, electrical coil impregnation, ion exchange resins, paper glossing agents, textile auxiliaries, leather processing materials, paint additives, and insulation filling materials.

### IT IS APPLIED IN THE PRODUCTION OF:

- Acrylic resins
- Coating resins
- Molding materials
- Latex paints
- Adhesives and sealants
- Emulsions
- Modifiers
- Impregnation agents

**CHEMICAL PROPERTIES**

|                        |                    |
|------------------------|--------------------|
| <b>PURITY</b>          | min. 99.8%         |
| <b>ACID CONTENT</b>    | max. 0.005%        |
| <b>MOISTURE AMOUNT</b> | max. 0.05%         |
| <b>COLOUR (APHA)</b>   | max. 10            |
| <b>INHIBITOR</b>       | 8-15 ppm TOPANOL A |

**PHYSICAL PROPERTIES**

|                          |  |
|--------------------------|--|
| <b>APPEARANCE</b>        | Clear, colorless                         |
| <b>PHYSICAL STATE</b>    | Liquid                                   |
| <b>ODOR</b>              | odorless                                 |
| <b>MOLECULAR WEIGHT:</b> | 100 g/mol                                |
| <b>DENSITY</b>           | 0,942 - 0,946 g/cm <sup>3</sup> at 20 °C |
| <b>BOILING POINT</b>     | 101 °C                                   |
| <b>FREEZING POINT</b>    | - 48 °C                                  |
| <b>FLASH POINT</b>       | 101 °C                                   |

| SAFETY INFORMATION           |   |
|------------------------------|---|
| <b>HAZARD PICTOGRAM(S)</b>   |     |
| <b>RISK PHRASES</b>          | <p>R11 Highly flammable.</p> <p>R37/38 Irritating to respiratory system and skin.</p> <p>R43 May cause sensitization by skin contact.</p>   |
| <b>SAFETY PHRASES</b>        | <p>S24 Avoid contact with skin.</p> <p>S37 Wear suitable gloves.</p> <p>S46 If swallowed, seek medical advice immediately and show this container or label.</p>   |
| <b>STORAGE CONDITIONS</b>    | <p>Minor deviations (7C/13F) above the recommended temperature (see below) are acceptable for short periods of time (one week) for material in transit. Store in cool place. Keep away from direct sunlight. Material can burn; limit indoor storage to approved areas equipped with automatic sprinklers. Ground all metal containers during storage and handling. This product contains inhibitor to stabilize it during shipment and storage. The effectiveness of the inhibitor is dependent on the presence of dissolved oxygen. In order to maintain sufficient dissolved oxygen in the liquid to avoid polymerization, the monomer must always be stored with a vapor space oxygen concentration of 5% to 21%(air). Store material in containers made of the following: Stainless steel Carbon steel glass Aluminium Keep container tightly closed.</p> <p>Storage temperature: <math>\leq 38\text{ }^{\circ}\text{C}</math></p> <p>Storage period: 8 Months</p> |
| <b>DISPOSAL</b>              | <p>After the addition of excess inhibitor, incinerate liquid and contaminated diking material in accordance with local, state, and federal regulations.</p>   |
| <b>TRANSPORT INFORMATION</b> | <p><b>UN proper shipping name</b></p> <ul style="list-style-type: none"> <li>• ADR/RID: METHYL METHACRYLATE MONOMER, STABILIZED</li> <li>• IMDG: METHYL METHACRYLATE MONOMER, STABILIZED</li> <li>• IATA: Methyl methacrylate monomer, stabilized</li> </ul> <p><b>Transport hazard class(es)</b></p> <ul style="list-style-type: none"> <li>• ADR/RID: 3</li> <li>• IMDG: 3</li> </ul>   |



- IATA: 3

**Packaging group**

- ADR/RID: II
- IMDG: II
- IATA: II

**Environmental hazards**

- ADR/RID: no
- IMDG Marine pollutant: no
- IATA: no

**Special precautions for user**

Tunnel restriction code: (D/E)

Further information: No data available

**For more information, check the SAFETY DATA SHEET or get contact with us.**