Methyl methacrylate (MMA) is an organic compound with the formula CH2=C(CH3)COOCH3. This colorless liquid, the methyl ester of methacrylic acid (MAA) is a monomer produced on a large scale for the production of poly(methyl methacrylate) (PMMA).

## Applications

•Textile processing : Sizing

·Leather technology : Binding, Tanning agent

·Ion-exchange resins : Water treatment

·Cosmetics : Thickening agent, Suspending agent

·Oil-well drilling : Drilling-mud additive, Anti-caking agent

·Paper industry : Filler-retention aid

·Industrial-waste treatments : Suspending agent, Flocculating agent

**·**Transportation : Skid-proof tires

**•Rubber industry : Creaming of latex** 

·Agriculture : Solid conditioners

**·Others : Coating, Adhesive** 

## Adventage

·Hardness ·Flexibility ·Clarity ·Color compatibility ·Toughness ·Weatherability ·Internal plasticization

## Specification

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Puritywt% 99.8 (Min.)
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Color (APHA) - 5 (Max.)
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Water ppm 500 (Max.)

Acid (as MAA) ppm 50 (Max.)

Inhibitor (Topanol-A) ppm 5±1

## Property

Molecular Weight g/mol100.12

Chemical Formular - CH<sub>2</sub>=C(CH<sub>3</sub>)COOCH<sub>3</sub>

Specific Gravity g/cm3 0.943

Boiling Point °C 100.3

- Freezing Point °C -48.2
- Heat of polymerization kcal/kg 137.3
- Solubility (water) g/100g 1.56 (at 20°C)
- Flash Point (Closed cup) °C 10
- Ignition Point °C 421
- Limits of Flammability vol % 2.12~12.5