

METHYL METHACRYLATE (MMA)



CAS Number: 80-62-6

Other Names: Methyl 2-methylprop-2-enoate; methyl methacrylate;
MMA; 2-(methoxycarbonyl)-1-propene

Formula: $C_5H_8O_2$

PRODUCT INTRODUCTION

Methyl Methacrylate (MMA) is an ester of methacrylic acid. It has the formula $C_5H_8O_2$ and is a clear, colourless liquid that has an acrid odour and is not known to occur naturally. It is insoluble in water, but is soluble in most organic solvents and it is also volatile and is flammable in both a liquid and vapour state. It is a monomer produced on a large scale for the production of poly(methyl methacrylate) (PMMA).

PHYSICAL AND CHEMICAL PROPERTIES

Color	5 APHA
Specific Gravity (20/4°C)	0.943
Free Acid	0.0001 wt%
Water Content	0.0275 wt%
Initial Boiling Point	99.6 °C
Distillate amount	99.2 wt%
Purity	99.9 wt%
Topanol-A	5.2 wt ppm

APPLICATIONS

- Methyl methacrylate is an important chemical as it is the monomer for polymethyl methacrylate (PMMA) polymers and copolymers. These polymers and copolymers are then used in the manufacture of a variety of other products. These include clear plastics (such as Plexiglass), resins, and acrylic sheets. Some of the end products that have utilised these chemicals are advertising signs and displays, skylights, building panels and sidings, and plumbing and bathroom fittings.
- MMA is also polymerised to form lubricant viscosity modifiers, dispersions, molding/extrusion powder, and coatings. These are then utilised in the production of such things as acrylic surface and paper coatings, adhesives, sealants, leather and paper coating, inks, textile finishes, latex paints, and lacquer and enamel resins.

- MMA is also used in the fields of medicine and dentistry as it is used to make prosthetic devices, surgical bone cements, and as a ceramic filler or cement.
 - It can also be used in the production of orthotic shoe inserts, and in leaded acrylic radiation shields
 - MMA can also be used in the impregnation of concrete as it makes the concrete water repellent.
 - It can also be used to partially replace styrene in unsaturated polyester resins as it gives better water resistance and a longer life to the final products.
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PACKING OPTIONS

Drums

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