

METHYL ACRYLATE (MA)

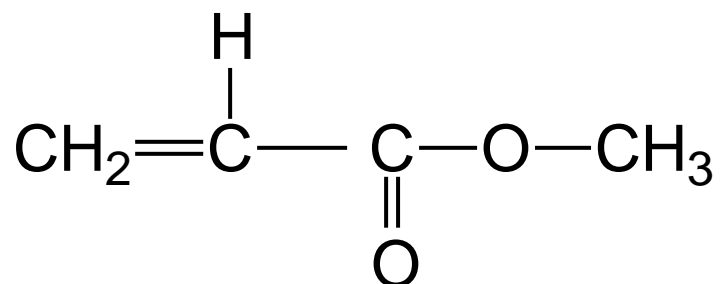
Acrylic acid, methyl ester

2-Propenoic acid, methyl ester

Cas number: 96-33-3

EINECS number: 202-500-6

CHEMICAL FORMULA



Molecular weight : 86

SPECIFICATIONS

	SPECIFICATION	METHOD
Appearance	Clear liquid	Visual
Colour (APHA)	10 maximum	ASTM D1209
Purity	99.5 % minimum	Gas Chromatography
Water content	400 ppm maximum	ASTM D1364
Acidity (expressed as acrylic acid)	40 ppm maximum	ASTM D1613
Inhibitor content (MEHQ)	10 to 20 ppm	UV Spectroscopy

HANDLING AND SAFETY ADVISES

We advise you to read carefully the safety data sheet.

METHYL ACRYLATE (MA)

Acrylic acid, methyl ester
2-Propenoic acid, methyl ester

MAIN PHYSICAL PROPERTIES

Molecular weight..... 86 g/mol
Boiling point, at 1013 mbar..... 80.1 °C
Freezing point, at 1013 mbar - 76.5 °C
Specific gravity at 20°C..... 0.95
Refractive index, n_D at 20°C..... 1.403
Viscosity at 20°C..... 0.489 mPa.s
Solubility water in MA at 20°C . 2.3 g/100 g
MA in water at 20°C.... 6.0 g/100 g
Specific heat in liquid state .. 2.01 kJ/kg °C
Latent heat of vaporization..... 384 kJ/kg
Heat of polymerisation..... 950 kJ/kg
Flash point in closed cup..... - 3 °C
Vapour pressure at 20°C..... 90 mbar
Auto-ignition temperature..... 468 °C

PACKAGING

Methyl Acrylate is delivered:

- in 25000 to 36000 liters stainless steel road tankcars
- in 25000 to 35000 liters stainless steel containers

STORAGE

The standard inhibition is 15 ppm Monomethyl Ether of HydroQuinone (MEHQ).

With this inhibitor, the product should be stored at a temperature of no more than 25°C and away from light.

It must also be stored under air atmosphere, as the presence of oxygen is essential to activate the stabilizer.

Under these conditions, the product is commercially guaranteed for three months after delivery.

Methyl acrylate is a highly flammable product, and the usual precautions must be taken in handling it.

For more detailed information, please consult the brochure "SAFE HANDLING AND STORAGE OF ACRYLIC ESTERS" produced by the European Basic Acrylic Monomer Manufacturers Association (EBAM).

APPLICATIONS

Methyl acrylate is used in the composition of polymers and copolymers with a wide range of industrial applications such as:

- acrylic and modacrylic fibres
- resins and dispersions for paints, varnishes and inks, papers, adhesives and glues
- aqueous dispersions for non-woven fabrics, textiles and paper
- cleaning and waxing products
- plastics and synthetic resins
- synthetic rubbers and lattices
- organic synthesis.

ACRYLIC MONOMERS BU/V7/05.23

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