

METHYL ACRYLATE



CAS Number: 96-33-3

Other Names: Acrylic acid methyl ester; Methyl prop-2-enoate; Curithane 103

Formula: $C_4H_6O_2$

PRODUCT INTRODUCTION

Methyl Acrylate (also known as acrylic acid methyl ester) is an ester of acrylic acid and has the formula $C_4H_6O_2$. It is a colourless, transparent liquid which has an unpleasant odour. It is found in nature as the volatile component of pineapple. It has slight solubility in water but is completely soluble in alcohols, esters, and many other organic solvents

PHYSICAL AND CHEMICAL PROPERTIES

Purity (wt%)	99.91 %
Colour (APHA)	2.4
Water Content (wt%)	0.0198 %
Inhibitor (MEHQ) (ppm)	93
Alcohol (wt%)	0.0001 %
Acidity (as Acetic acid) (wt%)	0.0014 %
Specific Gravity (at 20°C)	0.955

APPLICATIONS

- Methyl acrylate is used as chemical intermediate as it reacts readily with a wide variety of organic and inorganic compounds.
- One of the major areas that Methyl acrylate is employed in is the production of surface coatings. This is because methyl acrylate provides good water resistance, low temperature flexibility, and sunlight resistance to products, for example, latex paint formulations.
- The textile industry and the leather industry also employ methyl acrylate as a component of coatings. The leather industry uses it to provide different finishes e.g. suede and nubuck, to its products while the textile industry employs methyl acrylate in the manufacturing and finishing of woven and non-woven textiles

- The paper industry also uses methyl acrylate in paper coatings, and in the manufacture of paper itself.
 - Methyl acrylate is also employed in the manufacture of consumer, technical, and construction adhesives
 - Methyl acrylate is also useful for water treatment as it is used to produce DMAEA (dimethylaminoethylacrylate) which is used as a flocculant in water treatment processes.
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