

# METHYL ACETOACETATE



CAS Number: 105-45-3

Other Names: Methyl 3-oxobutanoate; Acetoacetic acid methyl ester;  
Methyl 3-oxobutyrate

Formula:  $C_5H_8O_3$

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## PRODUCT INTRODUCTION

Methyl acetoacetate is an ester, it appears as a clear colorless liquid with formula  $C_5H_8O_3$ . It is denser than water and slightly soluble in water.

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## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Liquid
Assay	99.7 %norm
Acid (as Acetic Acid)	0.01 % w/w
Water	0.03 % w/w
Color (APHA)	6

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## APPLICATIONS

- Methyl acetoacetate (MAA) is a starting material for the syntheses of alpha-substituted acetoacetic esters and cyclic compounds, e.g. pyrazole, pyrimidine and coumarin derivatives.
  - 3-Oxobutanoic Acid Methyl Ester is a chemical reagent used in the synthesis of pharmaceuticals. It participates in the Biginelli reaction, forming molecules including dihydropyrimidinones.
  - Principal outlets for MAA are the manufacture of the organophosphorus insecticide diazinon and the uracil herbicides bromacil and terbacil.
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## PACKAGING OPTIONS

Drums

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