

# METHANOL



CAS Number: 67-56-1

**Other Names:** Carbinol; Columbian spirits; Hydroxymethane; Methyl alcohol;  
Methyl hydrate; Methyl hydroxide; Methylic alcohol; Methylol;  
Pyroligneous spirit; Wood alcohol; Wood naphtha; Wood spirit

**Formula:** CH<sub>4</sub>O or CH<sub>3</sub>OH

## PRODUCT INTRODUCTION

Methanol has the chemical formula CH<sub>3</sub>OH and is a clear, colourless liquid which has a mild, characteristic alcohol odour. It is soluble in water and is also soluble in other alcohols, esters, ketones, ethers, and in most other organic solvents.

## PHYSICAL AND CHEMICAL PROPERTIES

Purity	99.98 wt. %
Water	0.0048 w/w %
Ethanol	< 0.0005 w/w %
Specific Gravity at 20/20°C	0.7926
Acetone	< 0.0005 w/w %
Permanganate Time Test	> 60 minutes
Non-Volatile Matter	< 5 mg/1000mL
Distillation Range at 760 mmHg	0.4
Color (Pt-Co)	Below 5APHA
Carbonizable	Below 30APHA
Total Iron	0.05 mg/kg
Chloride	0.03 mg/kg
Appearance	Clear and Free of Suspended Matter
Odor	Non-Residual
Acidity (as acetic acid)	0.0016 w/w %
Hydrocarbons	Pass
Sulphur	Nil
Aromatics	Pass

## APPLICATIONS

- Methanol is an important chemical feedstock which is employed primarily in the production of formaldehyde, methyl tertiary butyl ether (MTBE), and acetic acid.
- It is also used in the manufacture of DMT, MMA, chloromethanes, methylamines, glycol methyl ethers, and fuels.
- Methanol also has general solvent and antifreeze uses so can be found as a component of paint stripper, and de-icers.
- Methanol is an integral part of routine life as it can be found in plastics, synthetic fibres, fuels, resins, paints, safety glass laminate, adhesives, solvents, carpeting, insulation, refrigerants, particle board, pigments and dyes.
- Many racing classes including drag racers and mud racers use methanol as their primary fuel source.
- It is also used in waste water treatment as it provides a carbon food source for the denitrifying bacteria as the nutrient rich nitrates in sewage effluent can have a major effect on water ecosystems, for example, enabling algae blooms.
- Methanol is also a denaturing agent in polyacrylamide gel electrophoresis.

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## PACKING OPTIONS

Tanks

Drums

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