

# Sunflower Methyl Ester

## Description

**Sunflower Methyl Ester** is ester of fatty acids derived from Sunflower as the main feedstock. The physical characteristics of Vegetable Methyl Esters are closer to those of fossil diesel fuels than pure vegetable oils, but properties depending on the type of vegetable oil. A mixture of different fatty acid methyl esters is commonly referred to as biodiesel, which is a renewable alternative fuel. **Sunflower Methyl Ester** has physical properties similar to those of conventional diesel. It is also non-toxic and biodegradable. Some properties of biodiesel are different from those of fossil diesel and for correct low temperature behavior and for slowing down oxidation processes biodiesel requires a different set of additives than fossil diesel. Impurities, such as metals, in **Sunflower Methyl Ester** must be limited for use as a motor fuel.

## Specification

Appearance	Liquid
Color	Light Yellow
Clarity	Clear
Acid Value, mg.KOH/gr	2 Max
Saponification Value, mg.KOH/gr	180 – 200
Iodine Value, gr. I <sub>2</sub> /100 gr	110 – 125
Density @ 25°C, gr/cm <sup>3</sup>	0.860 – 0.900



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## Specification

Solubility in water	Insoluble
Moisture Content %	0.08
Flash Point °C	167
Smoking Point °C	128
Shelf life	12 months Max
Storage conditions	Containers should be well sealed to prevent water evaporation and skin forming. The product must be stored between 5-25°C. Freezing and direct sun light must be avoided.

## Applications

**Sunflower Methyl Ester** has numerous applications in several industries. Amongst many uses, the most important one is its application as an alternative green fuel for petroleum based products. Some of **Sunflower Methyl Ester's** applications are listed below:

- Substitute diesel;
- Transportation fuel;
- Power generation fuel;
- Agrochemical Solvents;
- Polymers;
- Lubricants;
- Coating;



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