

## Specifications for Methyl Ester of Fatty Acids

Parameter	Value
Density in g/cc @ 15 deg cel	0.86 – 0.90
Viscosity in mm <sup>2</sup> per sec @ 40 deg cel	3.5 – 5.0
Flash point in deg cel	> 101
Cloud point in deg cel	--
Sulphur in w/w %	< 0.01
Sulphated ash in w/w %	< 0.01
Water in ppm	< 500
Carbon residue in w/w %	< 0.03
Total contamination in ppm	< 24
Copper corrosion (3h @ 50 deg cel)	Class 1
Cetane #	> 51
Methanol in w/w %	< 0.2
Ester content in w/w %	> 96.5
Monoglycerides in w/w %	< 0.8
Diglycerides in w/w %	< 0.2
Triglycerides in w/w %	< 0.4
Free glycerol in w/w %	< 0.02
Total glycerol in w/w %	< 0.25
Iodine number	120
Acid number (mg koh / g)	--
Phosphorous in ppm	< 10
Alkaline metals (na and k) in ppm	< 5
Alkaline earth metals (ca and mg) in ppm	--
Distillation (90% recovery) temp in deg cel	--

### Applications:

- in mfr of biodiesel and for blending with fossil diesel
- in mfr of methyl ester sulphonate (mes)
- in mfr of fatty acids and fatty alcohols
- as pour point depressant in fuels