

MTBE

Methyl Tertiary Butyl Ether is an organic compound with the chemical formula $C_5H_{12}O$ and is the family of saturated aliphatic ether. At standard temperature and pressure, it was colorless liquid, flammable with 88.15 molecular weight and has melting point of $-9\text{ }^{\circ}\text{C}$, boiling point of $53.6\text{-}55.2\text{ }^{\circ}\text{C}$ and vapor pressure of 0.268 bar at a temperature of $20\text{ }^{\circ}\text{C}$. MTBE at room temperature, is colorless, flammable, solubility in water and evaporative. Oxygen-containing compounds acted as octane enhancer of gasoline and has the advantage of more complete combustion of fuel and as a result, a significant reduction in exhaust emissions of cars. In some cases, as solver of gallstone was used for medical purposes.

Characteristics	Content	Unit	Test Method
MTBE	Min 98	Wt%	ASTM D-5441
C4 Hydrocarbons	Max 0.5	Wt%	ASTM D-5441
Hydrocarbons up to max C8	Max 1	Wt%	ASTM D-5441
Methanol	Max 0.7	Wt%	ASTM D-5441
Tert-Butanol	Max 0.6	Wt%	ASTM D-5441
Di-Isobutene	Max 0.6	Wt%	ASTM D-5441
Water	Max 500	Wt%	ASTM D-1364

MTBE Characteristics