

Summit Technology Management



Indonesia, Malaysia, Thailand

P. O. Box 281, Pejabat POS Bandar Johor Bahru,
80000 Johor Bahru, Johor, Malaysia

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MTBE (METHYL TERTIARY BUTYL ETHER)

FORMULA

CH₃ - O - C (CH₃)₃

DESCRIPTION

Methyl Tertiary Butyl Ether (MTBE) is a colorless liquid with a characteristic mild odor. Its principal characteristics are miscibility with gasoline, low blending vapor pressure and distillation properties. MTBE is slightly soluble in water without phase separation problems. Compared to other oxygenated fuels, it has lower blending density, lower blending vapor pressure and no corrosion problems.

PROPERTIES

Parameter	Unit	Quantity
Specific gravity	°C at 20°C/20°C	0.74
IBP	°C at 1.0 atm	50.5 min
FBP	°C at 1.0 atm	74.5 max
CAS number	1634-04-4	
IUPAC name	2-Methoxy-2-methylpropane	

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SPECIFICATIONS

Parameter	Unit	Quantity	Test Method
Purity	wt %	98 min	ASTM D-5441
C4-hydrocarbons	wt %	0.5 max	ASTM D-5441
C5-hydrocarbons	wt %	1 max	ASTM D-5441
Methanol	wt %	0.7 max	ASTM D-5441
Ter-butyl alcohol	wt %	0.6 max	ASTM D-5441
Di-isobutene	wt %	0.6 max	ASTM D-5441
Water	ppm	500 max	ASTM D-1364