

NEWS

FLASH!!

September 30, 2009

MMB, (3- Methoxy-3- Methyl-1-Butanol), CAS # 56539-66-3

Passes the EPA's DfE screen for solvents! (www.epa.gov/dfe/index.htm)

Physical Properties of MMB

Formula	C ₆ H ₁₄ O ₂ =118	
Specific Gravity (@20°C / 20°C)	0.927	
Specific Heat	2.30 J/g	0.549 cal/g
Viscosity (@20°C)	7.35mPa•s	7.35 cps
Boiling Point (@760mmHg, 101kPa)	174°C	345°F
Heat of Vaporization (@b.p.)	384 J/g	91.8 cal/g
Freezing Point	< -50°C	
Flash Point (Tag's CC)	68°C	154°F
Log Pow (@25°C)	0.18	
Solubility in Water	INFINITE	
Solubility Parameter	9.88 (cal/cm ³) ^{1/2}	
Hansen Solubility Parameter		
Dispersion	15.1 (MPa) ^{1/2}	
Polar	4.7 (MPa) ^{1/2}	
Hydrogen Bonding	12.6 (MPa) ^{1/2}	
Total	20.2 (MPa) ^{1/2}	
Specific Electric Conductivity (@20°C)	8.6 x10 ⁻⁷ Ω ⁻¹ cm ⁻¹	
Vapor Density (air=1)	4.1	
Refractive Index (@20°C)	1.4275	
Expansion Coefficient	0.00079/deg	
Surface Tension (@20°C)	29.9mN/m	29.9 dyn/cm
Vapor Pressure (@20°C)	0.07 kPa	0.5mmHg
Evaporation Rate (n-BuAc=100)	7	
Explosion Range	1.2 – 13.1 vol%	
Ignition Point	395°C	743°F
Dilution Ratio		
a) Toluene (NC, 1/2 sec)	4.7	
b) Toluene (Epoxy resin)	4.5	
c) Xylene (NC, 1/2 sec)	4.3	

Use MMB to Manufacture

Degreasers, (water or solvent)
Laundry Detergents, Spotters
Floor Strippers
Paint, Oil & Grease Spotters
Solvent based hand cleaners
Water based hand cleaners
Spray & Wipe Cleaners
Carpet Cleaners
Floor Finish & Restorers
Air Fresheners / Deodorizers
Paint, varnish, & printing ink
Silk Screen Cleaners
Printing Ink & Ink Removers
Warewashing Detergents
Parts Washing Solvent

Features of MMB

Very Low Odor
High Kb Value (>400)
Unique surfactant properties
Modifies Viscosities
Increases Cloud Points
Stable in Acid solutions
Stable in Alkaline solutions

MMB Replaces

D'Limonene
Glycol Ether Solvents
Hydrocarbon Solvents

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