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Typical Product Specifications & Properties

1-methoxy-2-propanol

CAS Number: : 107-98-2

Specifications	Limits
Density	0.919
Surface Tension	28 dynescm
Auto/Self Ignition Temperature	temp. 278 c
Refractive Index @ 20° C	1.403
Dielectric Constant @ 20C	12.3
Purity	99.5% m/m min
Water	0.05% m/m
Boiling Point	120 C
Relative Evaporation Rate (nBuAc=1)	0.75
Relative Evaporation Rate (Ether=1)	22
Antoine Constant A #	7.01882 kPa, C
Antoine Constant C #	236.322 kPa, C



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Specifications	Limits
Saturated Vapour Concentration @ 20C	44 g/m ³
Auto Ignition Temp	290 C
Lower Explosion Limit	1.9% v/v
Upper Explosion Limit	13.1% v/v
Freezing Point	-96 C
Surface Tension @ 20C	28 mN/m
Hydrogen Bonding Index	0.0
Fractional Polarity	0.110
Dilution Ratio: SBP 100/140	0.8
Heat of Combustion (Net) @25C	26000 kJ/kg
Thermal Conductivity @ 20C	0.18 W/m/C
Miscibility @20C: Solvent in water	complete



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Specifications	Limits
Miscibility @20C: Water in solvent	complete
Molecular weight	90 g/mol
Color	<5 Pt-Co
Antoine Constant B #	1780.17 kPa, C
Vapor Pressure at 20°C	1.2 kPa
Vapor Pressure @ 50C	6.3 kPa
Flash Point (Abel)	30 C
Viscosity @ 20C	1.9 mPa.s

Specifications	Limits
Specific Heat @20C	2.2 kJ/kg/C
Azeotrape with Water: Boiling Point	96.5 C
Density @ 20C	0.921 kg/L
Coefficient of Cubic Expansion @ 20C	10 10 ⁻⁴ /C



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Specifications	Limits
Temperature Limits for Antoine Equation	-30 to +130 C
Electrical Conductivity @ 20C	30 uS/m
Hildebrand Solubility Parameter	9.5 (cal/cm ³) ^{1/2}
Dilution Ratio:Toluene	4.0
Heat of Vaporization @Tboil	427 kJ/kg
Azeotrope with water: Solvent Content	52.9% m/m
Odor	sweet ether-like odor
Vapor Pressure	12.5 mm hg
Melting Point	-96.7 c
Refractive Index	1.402
Flash Point	(cc) 32 c
Solubility	water, acetone, benzene, ccl4, ethyl ether, petrol. ether, methanol



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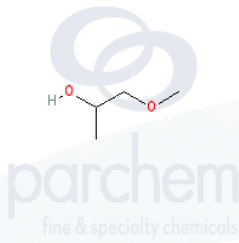


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Specifications	Limits
Chemical Structure	



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