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Typical Product Specifications & Properties

Methyl Isobutyl Carbinol

CAS Number: : 108-11-2

Specifications	Limits
Density	0.8079 (2020 c)
Surface Tension	22.63 dynescm
Slightly Soluble	in water
Density @ 20C	0.807 kg/L
Flash Point (Abel)	41 C
Surface Tension @ 20C	23 mN/m
Purity	98.0% m/m min
Water	0.05% m/m
Refractive Index @ 20° C	1.410
Relative Evaporation Rate (nBuAc=1)	0.28
Relative Evaporation Rate (Ether=1)	66
Vapor Pressure @ 50C	3.0 kPa



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Specifications	Limits
Saturated Vapour Concentration @ 20C	17 g/m ³
Auto Ignition Temp	305 C
Lower Explosion Limit	1.0% v/v
Upper Explosion Limit	5.5% v/v
Electrical Conductivity @ 20C	0.3 uS/m
Freezing Point	-90 C
Viscosity @ 20C	5.2
Thermal Conductivity @ 20C	0.13 W/m/C
Molecular weight	102 g/mol
Coefficient of Cubic Expansion @ 20C	11 10 ⁻⁴ /C
Color	<5 Pt-Co
Antoine Constant A #	6.63977 kPa, C



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Specifications	Limits
Antoine Constant B #	1521.88 kPa,C
Antoine Constant C #	196.767 kPa,C
Vapor Pressure at 20°C	0.42 kPa
Dielectric Constant @ 20C	10.4
Hildebrand Solubility Parameter	-18.7
Fractional Polarity	0.066
Heat of Combustion (Net) @25C	36000 kJ/kg
Specific Heat @20C	2.4 kJ/kg/C

Specifications	Limits
Miscibility @20C: Water in solvent	6.3% m/m
Azeotrape with Water: Boiling Point	94.3 C
Azeotrope with water: Solvent Content	55.6% m/m
Boiling Point	132 C



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Specifications	Limits
Temperature Limits for Antoine Equation	+10 to +140 C
Miscibility @20C: Solvent in water	1.6% m/m
Heat of Vaporization @Tboil	413 kJ/kg
Odor	mild odor
Vapor Pressure	2.8 mm hg (20 c)
Refractive Index	1.4089
Flash Point	(oc) 40.5 c
Chemical Structure	



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