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Typical Product Specifications & Properties

Methyl Isobutyl Ketone

CAS Number: : 108-10-1

Specifications	Limits
Density	0.8042 (2020 c)
Surface Tension	23.29 dynescm
Dielectric Constant	13.11
Auto/Self Ignition Temperature	temp. 448 c
Slightly Soluble	in water
Boiling Point	116 C
Fractional Polarity	0.315
Water	0.03% m/m
Heat of Vaporization @Tboil	364 kJ/kg
Molecular weight	100 g/mol
Purity	99.5% m/m min
Refractive Index @ 20° C	1.396



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Specifications	Limits
Relative Evaporation Rate (nBuAc=1)	1.6
Relative Evaporation Rate (Ether=1)	7.2
Antoine Constant A #	6.31286 kPa, C
Antoine Constant C #	220.093 kPa, C
Temperature Limits for Antoine Equation	-20 to +120 C
Vapor Pressure @ 50C	8.8 kPa
Flash Point (Abel)	15 C
Auto Ignition Temp	460 C
Lower Explosion Limit	1.3% v/v
Upper Explosion Limit	8% v/v
Electrical Conductivity @ 20C	30 uS/m
Dielectric Constant @ 20C	13.1



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Specifications	Limits
Viscosity @ 20C	0.59 mPa.s
Hydrogen Bonding Index	10.5
Specific Heat @20C	2.1 kJ/kg/C
Miscibility @20C: Solvent in water	2.0% m/m
Azeotrape with Water: Boiling Point	87.9 C
Density @ 20C	0.800 kg/L
Color	<5 Pt-Co
Saturated Vapour Concentration @ 20C	77 g/m ³

Specifications	Limits
Surface Tension @ 20C	24 mN/m
Hildebrand Solubility Parameter	8.4 (cal/cm ³) ^{1/2}
Dilution Ration: Toluene	3.6
Heat of Combustion (Net) @25C	35000 kJ/kg



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Specifications	Limits
Coefficient of Cubic Expansion @ 20C	12 10 ⁻⁴ /C
Antoine Constant B #	1449.92 kPa, C
Vapour Pressure @ 20C	1.9 kPa
Freezing Point	-85 C
Dilution Ration SBP 100/140	1.0
Thermal Conductivity @ 20C	0.14 W/m/C
Azeotrope with water: Solvent Content	75.7% m/m
Miscibility @20C: Water in solvent	2.4% m/m
Vapor Pressure	19.9 mm hg
Odor	faint ketoniccamphoraceous odor
Melting Point	-85 c
Refractive Index	1.396



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Specifications	Limits
Flash Point	(cc) 13 c
Chemical Structure	



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