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Typical Product Specifications & Properties

Diacetone Alcohol

CAS Number: : 123-42-2

Specifications	Limits
Surface Tension	31 dynescm
Dielectric Constant	18.2
Auto/Self Ignition Temperature	temp. 603 c
Thermal Conductivity @ 20C	0.17 W/m/C
Azeotrope with water: Solvent Content	12.7% m/m
Purity	99.0% m/m min
Coefficient of Cubic Expansion @ 20C	10 10 ⁻⁴ /C
Refractive Index @ 20° C	1.421
Color	10 Pt-Co
Relative Evaporation Rate (Ether=1)	150
Antoine Constant A #	7.03103 kPa, C
Vapour Pressure @ 20C	0.12 kPa



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Specifications	Limits
Saturated Vapour Concentration @ 20C	6 g/m ³
Auto Ignition Temp	620 C
Upper Explosion Limit	6.9 % v/v
Electrical Conductivity @ 20C	20 uS/m
Freezing Point	-43 C
Viscosity @ 20C	2.9 mPa.s
Hildebrand Solubility Parameter	9.2 (cal/cm ³) ^{1/2}
Fractional Polarity	0.312
Density @ 20C	0.938 kg/L
Relative Evaporation Rate (nBuAc=1)	0.15
Antoine Constant B #	2036.93
Vapor Pressure @ 50C	0.82 kPa



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Specifications	Limits
Lower Explosion Limit	1.8% v/v
Dielectric Constant @ 20C	18.2
Hydrogen Bonding Index	6.5
Water	0.05% m/m
Boiling Point	168 C
Antoine Constant C #	236.175 kPa, C
Flash Point (Abel)	60 C
Surface Tension @ 20C	30 mN/m

Specifications	Limits
Temperature Limits for Antoine Equation	+30 to +170 C
Heat of Vaporization @Tboil	377 kJ/kg
Heat of Combustion (Net) @25C	28500 kJ/kg
Miscibility @20C: Water in solvent	Complete



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Specifications	Limits
Azeotrape with Water: Boiling Point	99.0 C
Molecular weight	116 g/mol
Dilution Ratio: Toluene	3.2
Dilution Ratio: SBP 100/140	0.6
Specific Heat @20C	1.9 kJ/kg/C
Miscibility @20C: Solvent in water	Complete
Odor	faint minty pleasant odor
Vapor Pressure	1.1 mm hg (20 c)
Refractive Index	1.4234
Flash Point	(tcc) 126 f
Specific gravity	0.940 (2020 c)
Solubility	water



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Specifications	Limits
Chemical Structure	



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