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Typical Product Specifications & Properties

Secondary Buryl Alcohol

CAS Number: : 78-92-2

Specifications	Limits
Surface Tension	23.37 dynescm
Dielectric Constant	16.56
Auto/Self Ignition Temperature	temp. 405 c
Vapor Pressure	18.3 mm hg
Density @ 20C	0.807 kg/L
Flash Point	23 c
Vapor Pressure @ 50C	11 kPa
Auto Ignition Temp	390 C
Fractional Polarity	0.123
Specific Heat @20C	2.6 kJ/kg/C
Water	0.1% m/m
Color	<5 Pt-Co



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Specifications	Limits
Relative Evaporation Rate (nBuAc=1)	0.89
Relative Evaporation Rate (Ether=1)	15
Temperature Limits for Antoine Equation	0 to +100 C
Upper Explosion Limit	9% v/v
Specific gravity	0.807 (204 c)
Electrical Conductivity @ 20C	3 uS/m
Dielectric Constant @ 20C	16.5
Viscosity @ 20C	4.3 mPa.s
Hildebrand Solubility Parameter	10.8 (cal/cm ³) ^{1/2}
Heat of Combustion (Net) @25C	33500 kJ/kg
Thermal Conductivity @ 20C	0.17 W/m/C
Melting Point	-89 c



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Specifications	Limits
Miscibility @20C: Water in solvent	45% m/m
Solubility	water, ethanol, ether, acetone, benzene
Azeotrope with water: Solvent Content	72.7% m/m
Refractive Index @ 20° C	1.397
Boiling Point	100 C
Antoine Constant A #	6.35457 kPa, C
Vapour Pressure @ 20C	1.5 kPa
Specifications	Limits
Saturated Vapour Concentration @ 20C	47 g/m ³
Lower Explosion Limit	1.7% v/v
Freezing Point	-115 C
Surface Tension @ 20C	23 mN/m
Hydrogen Bonding Index	-17.5



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Specifications	Limits
Heat of Vaporization @Tboil	551 kJ/kg
Miscibility @20C: Solvent in water	12.5% m/m
Azeotrape with Water: Boiling Point	87.5 C
Molecular weight	74 g/mol
Coefficient of Cubic Expansion @ 20C	11 10 ⁻⁴ /C
Antoine Constant B #	1171.89 kPa, C
Refractive Index	1.3972 (20 c)
Antoine Constant C #	169.955 kPa, C
Flash Point (Abel)	24 C
Purity	99.4% m/m min
Odor	strong pleasant sweet odor



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