Typical Product Specifications & Properties

Dipropylene Glycol Methyl Ether

CAS Number: : 34590-94-8

Specifications	Limits
Temperature Limits for Antoine Equation	+50 to +190 C
Refractive Index @ 20° C	1.423
Thermal Conductivity @ 20C	0.11 W/m/C
Color	<5 Pt-Co
Upper Explosion Limit	8.7% v/v
Miscibility @20C: Water in solvent	complete
Molecular weight	148 g/mol
Water	0.05% m/m
Density @ 20C	0.953 kg/L
Coefficient of Cubic Expansion @ 20C	10 10^-4/C
Boiling Point	191 C
Antoine Constant A #	6.70707 kPa, C

Specifications	Limits
Antoine Constant B #	1633.03 kPa, C
Vapour Pressure @ 20C	<0.01 kPa
Flash Point (Abel)	79 C
Lower Explosion Limit	1.3% v/v
Dielectric Constant @ 20C	10.5
Freezing Point	-83 C
Viscosity @ 20C	4.3 mPa.s
Hydrogen Bonding Index	0.0
Fractional Polarity	0.050
Dilution Ratio: Toluene	4.2
Heat of Combustion (Net) @25C	27500 kJ/kg
Specific Heat @20C	2.0 kJ/kg/C

Specifications	Limits
Azeotrope with water: Solvent Content	8.0 % m/m
Relative Evaporation Rate (Ether=1)	360
Saturated Vapour Concentration @ 20C	<0.5 g/m^3
Hildebrand Solubility Parameter	8.7 (cal/cm^3)^1/2
Purity	98.5% m/m min
Relative Evaporation Rate (nBuAc=1)	0.04
Antoine Constant C #	161.693 kPa, C
Vapor Pressure @ 50C	0.10 kPa
Auto Ignition Temp	205 C
Electrical Conductivity @ 20C	10 uS/m
Surface Tension @ 20C	29 mN/m
Dilution Ratio: SBP 100/140	0.8

Specifications	Limits
Heat of Vaporization @Tboil	306 kJ/kg
Miscibility @20C: Solvent in water	complete
Azeotrape with Water: Boiling Point	99.2 C

Chemical Structure