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Typical Product Specifications & Properties

Toluene

CAS Number: : 108-88-3

Specifications	Limits
Density	0.866 (204 c)
Very Soluble	in water
Melting Point	-94.5 c
Relative Evaporation Rate (Ether=1)	6
Vapour Pressure @ 20C	2.9 kPa
Aromatics	19 mg/kg
Aniline point	60 C
Refractive Index @ 20° C	1.497
Distillation - Initial Boiling Point	110 C
Antoine Constant B #	1342.31 kPa, C
Naphthenes	31 %
Lower Explosion Limit in Air	0.6 % v/v



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Specifications	Limits
Viscosity @ 25°C	1.5 mm ² /s
Hildebrand Solubility Parameter	7.9 (cal/cm ³) ^{1/2}
Antoine Constant C #	219.187 kPa, C
Vapour Pressure @ 0C	0.89 kPa
Paraffins	50 %
Auto Ignition Temp	297 C (ASTM e659)
Auto Ignition Temp	230 C (DIN 51794)
Surface Tension @ 20C	26 mN/m
Density @ 15 ° C	0.871 kg/L
Colour	+30 Saybolt
Temperature Limits for Antoine Equation	+40 to +100 C
Upper Explosion Limit in Air	6.0 % v/v



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Specifications	Limits
Thermal Conductivity @ 20C	0.14 W/m/C
Hydrogen Bonding Index	0.5
Molecular weight	155 g/mol
Coefficient of Cubic Expansion @ 20C	11 10 ⁻⁴ /C
Distillation - Dry Point	111 C
Relative Evaporation Rate (nBuAc=1)	1.9
Antoine Constant A #	6.07577 kPa, C
Saturated Vapour Concentration @ 20C	110 g/m ³

Specifications	Limits
Benzene	<3 mg/kg
Sulphur	<1 mg/kg
Flash Point (Abel)	67 C
Electrical Conductivity @ 20C	<1 pS/m




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Specifications	Limits
Pour point	<-30 C
Kauri-Butanol Number	33
Fractional Polarity	0
Vapor Pressure	36.7 mm hg (30 c)
Refractive Index	1.4967 (20 c)
Odor	benzene odor
Color	colorless clear liquid
Flash Point	(cc) 4.4 c
Solubility	alcohol, benzene, ether, acetone, chloroform, petrol. ether, ethyl acetate
Boiling Point	110.7 c
Chemical Structure	



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