



## TOLUENE

Characteristic	Unit	Method	Value
Density @15°C	kg/l	ASTM D4052	0.871
Density @20°C	kg/l	ASTM D4052	0.867
Cubic Expansion Coefficient @20°C	(10 <sup>-4</sup> )/°C	-	11
Refractive Index @20°C	-	ASTM D1218	1.497
Color	Saybolt	ASTM D156	+30
Acid Wash Color	-	ASTM D848	1
Distillation, IBP	°C	ASTM D86	110
Distillation, DP	°C	ASTM D86	111
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	1.9
Antoine Constant A #	kPa, °C	-	6.07577
Antoine Constant B #	kPa, °C	-	1342.31
Antoine Constant C #	kPa, °C	-	219.187
Antoine Constants: Temperature range	°C	-	+40 to 100
Vapor Pressure @0°C	kPa	Calculated	0.89
Vapor Pressure @20°C	kPa	Calculated	2.9
Saturated Vapor Concentration @20°C	g/m <sup>3</sup>	Calculated	110
Aromatics	%v/v	GC	> 99
Benzene	%v/v	GC	< 0.04
Non-Aromatic Hydrocarbons	%v/v	GC	< 1
Flash Point	°C	IP 170	4
Auto Ignition Temperature	°C	ASTM E659	535
Explosion Limit: Lower	%v/v	-	1.2
Explosion Limit: Upper	%v/v	-	7.1
Electrical Conductivity @20°C	pS/m	-	< 10
Aniline Point, Mixed	°C	ASTM D611	9
Kauri-Butanol Value	-	ASTM D1133	105



Pour Point Surface Tension @20°C	°C mN/m	ASTM D97 Du Nouy ring	< -50 29
Viscosity @25°C	mm <sup>2</sup> /s	ASTM D445	0.64
Hildebrand Solubility Parameter	(cal/cm <sup>3</sup> ) <sup>1/2</sup>	-	8.9
Hydrogen Bonding Index	-	-	4.2
Fractional Polarity	-	-	0.001
Molecular Weight	g/mol	Calculated	92