



HEXANE

Characteristic	Unit	Method	Value
Water	% m/m	ASTM D1364	< 0.005
Density @15°C	kg/L	ASTM D4052	0.676
Coefficient of Cubic Expansion @20°C	10 ⁻⁴ /°C	Calculated	13
Refractive Index @20°C	-	ASTM D1218	1.380
Colour	Saybolt	ASTM D156	+30
Bromine Index	mg Br/100g	ASTM D1492	< 5
Copper Corrosion (1hr @100°C)	-	ASTM D130	1
Doctor Test	-	ASTM D4952	Negative
Non Volatile Matter	mg/100ml	ASTM D1353	< 0.5
Distillation, Initial Boiling Point	°C	ASTM D1078	66
Distillation, Dry Point	°C	ASTM D1078	70
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	8.0
Relative Evaporation Rate (Ether=1)	-	DIN 53170	1.4
Antoine Constant A #	kPa, °C	-	7.38070
Antoine Constant B #	kPa, °C	-	2110.27
Antoine Constant C #	kPa, °C	-	326.200
Antoine Constants: Temperature range	°C	-	+20 to +70
Vapor Pressure @ 0°C	kPa	Calculated	8.2
Vapor Pressure @ 20°C	kPa	Calculated	19
Saturated Vapor Concentration @ 20°C	g/m ³	Calculated	681
Paraffins	% m/m	GC	85
Naphthenes	% m/m	GC	15
Aromatics	mg/kg	SMS 2728	< 5
Benzene	mg/kg	GC	< 3
n-Hexane	%m/m	GC	50



Sulfur	mg/kg	ISO 20846	< 0.5
Flash Point, (Abel)	°C	IP170	< -30
Lower Explosion Limit in Air	% v/v		1.1
Upper Explosion Limit in Air	% v/v		7.4
Auto Ignition Temperature	°C	ASTM E659	375
Electrical Conductivity @ 20°C	pS/m	ASTM D4308	< 1
Aniline Point	°C	ASTM D611	65
Kauri-Butanol Value	-	ASTM D1133	31
Pour Point	°C	ASTM D97	< -50
Viscosity @ 25°C	mm ² /s	ASTM D445	0.49
Surface Tension @20°C	mN/m	Du Nouy ring	19
Thermal Conductivity @ 20°C	W/m/°C		0.12
Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	7.3
Hydrogen Bonding Index	-	-	0
Fractional Polarity	-	-	0
Heat of Vaporization at T _{boil}	kJ/kg	-	333
Heat of Combustion (Net) @t 25°C	kJ/kg	-	46000
Specific Heat @ 20°C	kJ/kg/°C	-	2.2
Molecular Weight	g/mol	Calculated	86