

Data Sheet	Issued:						
Dara Sneer	28-Nov-2007						
Product Name	ShellSol TD						
Product Code	Q7411 Europe						
Product Category	Isoparaffins						
CAS Registry Number	64741-65-7						
EINECS Number	265-067-2						
Description	ShellSol TD is a synthetical isoparaffinic hydrocarbon solvent with a characteristic low odour.						
Typical Properties	Property	Unit	Method	Value			
	Density @15°C	kg/l	ASTM D4052	0.751			
	Cubic Expansion Coefficient @20°C	(10^-4)/°C	Calculated	10			
	Refractive Index @20°C	-	ASTM D1218	1.420			
	Color	Saybolt	ASTM D156	+30			
	Bromine Index	mg Br/100g	ASTM D2710	300			
	Copper Corrosion (3hr @100°C)	-	ASTM D130	1			
	Doctor Test	-	ASTM D235	Negative			
	Distillation, IBP	°C	ASTM D1078	174			
	Distillation, DP	°C	ASTM D1078	187			
	Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.16			
	Relative Evaporation Rate (Ether=1)	-	DIN 53170	70			
	Antoine Constant A #	kPa, °C	-	6.41880			
	Antoine Constant B #	kPa, °C	-	1745.60			
	Antoine Constant C #	kPa, °C	-	222.160			
	Antoine Constants: Temperature range	°C	-	+40 to +140			
	Vapor Pressure @0°C	kPa	Calculated	0.04			
	Vapor Pressure @20°C	kPa	Calculated	0.16			
	Saturated Vapor Concentration @20°C	g/m^3	Calculated	11			
	Paraffins	% m/m	GC	> 98			
	Naphthenes	% m/m	GC	< 2			
	Aromatics	mg/kg	SMS 2728	50			
	Benzene	mg/kg	GC	< 3			
	Sulfur	mg/kg	SMS 1897	< 0.5			

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Flash Point

	Auto Ignition Temperature	°C	ASTM E659	450		
	Explosion Limit: Lower	%v/v	-	0.6		
	Explosion Limit: Upper	%v/v	-	6.0		
	Electrical Conductivity @20°C	pS/m	-	< 1		
	Dielectric Constant @20°C	-	-	2.0		
	Aniline Point	°C	ASTM D611	84		
	Kauri-Butanol Value	-	ASTM D1133	26		
	Pour Point	°C	ASTM D97	< -50		
	Surface Tension @20°C	mN/m	Du Nouy ring	23		
	Viscosity @25°C	mm ² /s	ASTM D445	1.6		
	Hildebrand Solubility Parameter	(cal/cm ³)^1/ ₂		7.3		
	Hydrogen Bonding Index	-	-	0		
	Fractional Polarity	-	-	0		
	Heat of Combustion (Net) @25°C	kJ/kg	-	45500		
	Specific Heat @20°C	kJ/kg/°C	-	2.1		
	Thermal Conductivity @20°C	W/m/°C	_	0.13		
	Molecular Weight	g/mol	Calculated	161		
	(#) In the Antoine temperature range, the vapor pressure P (kPa) at temperature T (°C) can be calculated by means of the Antoine equation: log P = A - B/(T+C)					
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