

	Issued:				
Data Sheet	23-Nov-2007				
Product Name	ShellSol D90				
Product Code	Q7726 Europe				
Product Category	Aliphatics				
CAS Registry Number	64742-47-8				
EINECS Number	265-149-8				
Description	ShellSol D90 consists predominantly of C12- C16 paraffins and naphthenes. Deep hydrogenation gives this solvent a very low aromatic content, negligible amount of reactive impurities and a low, sweet odour.				
Typical Properties	Property	Unit	Method	Value	
	Density @15°C	kg/l	ASTM D4052	0.795	
	Cubic Expansion Coefficient @20°C	(10^-4)/°C	Calculated	9	
	Refractive Index @20°C	-	ASTM D1218	1.440	
	Color	Saybolt	ASTM D156	+17	
	Bromine Index	mg Br/100g	ASTM D1492	< 10	
	Copper Corrosion (3hr @100°C)	-	ASTM D130	1	
	Doctor Test	-	ASTM D235	Negative	
	Distillation, IBP	°C	ASTM D86	219	
	Distillation, EP	°C	ASTM D86	274	
	Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	< 0.01	
	Relative Evaporation Rate (Ether=1)	-	DIN 53170	> 3900	
	Antoine Constant A #	kPa, °C	-	<i>7.7</i> 6180	
	Antoine Constant B #	kPa, °C	-	2999.61	
	Antoine Constant C #	kPa, °C	-	289.400	
	Antoine Constants: Temperature range	°C	-	+20 to +120	
	Vapor Pressure @0°C	kPa	Calculated	< 0.01	
	Vapor Pressure @20°C	kPa	Calculated	0.01	
	Saturated Vapor Concentration @20°C	g/m^3	Calculated	0.9	
	Paraffins	% m/m	GC	60	
	Naphthenes	% m/m	GC	40	
	Aromatics	mg/kg	SMS 2728	< 200	
	Benzene	mg/kg	GC	< 3	
	c It	/1	6146 1007	0.5	

mg/kg

SMS 1897

< 0.5

Sulfur

	Flash Point	°C	ASTM D93	92		
	Auto Ignition Temperature	°C	ASTM E659	231		
	Explosion Limit: Lower	%v/v	-	0.6		
	Explosion Limit: Upper	%v/v	-	5.5		
	Electrical Conductivity @20°C	pS/m	-	< 1		
	Aniline Point	°C	ASTM D611	80		
	Kauri-Butanol Value	-	ASTM D1133	27		
	Pour Point	°C	ASTM D97	-30		
	Surface Tension @20°C	mN/m	Du Nouy ring	26		
	Viscosity @25°C	mm²/s	ASTM D445	2.6		
	Viscosity @40°C	mm²/s	ASTM D445	2.0		
	Hildebrand Solubility Parameter	(cal/cm ³)^1/ ₂	-	7.6		
	Hydrogen Bonding Index	-	-	0		
	Fractional Polarity	-	-	0		
	Heat of Vaporization @Tboil	kJ/kg	_	250		
	Heat of Combustion (Net) @25°C	kJ/kg	-	45000		
	Specific Heat @20°C	kJ/kg/°C	-	1.9		
	Thermal Conductivity @20°C	W/m/°C	-	0.14		
	Molecular Weight	g/mol	Calculated	190		
	American Society for Testing and Materials (ASTM): www.astm.org Deutsches Institut für Normung (DIN): www.din.de Shell Method Series (SMS) methods are issued by Shell Golabl Solutions International B.V., Shell Research and Technology Centre, Amsterdam, The Netherlands. Copies of SMS can be obtained through your local Shell Chemicals company. For routine quality control analyses, local test methods may be applied that are different from those mentioned in this datasheet. Such methods have been validated and can be obtained through your local Shell Chemicals company.					
Quality	ShellSol D90 does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.					
Hazard Information	For detailed Hazard Information please refer to the Material Safety Data Sheet on www.shell.com/chemicals.					
	Provided proper storage and handling precautions are taken we would expect ShellSol D90 to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Material Safety Data Sheet on www.shell.com/chemicals.					

Warranty

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