

Issued:

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### **Product Name**

# **ShellSol A100**

**Product Code** 

Q7391 Europe

**Product Category** 

**Aromatics** 

**CAS Registry Number** 

64742-95-6

**EINECS Number** 

265-199-0

**Property** 

**Description** 

ShellSol A100 is a C9-C10 aromatic hydrocarbon solvent

# **Typical Properties**

Property	Ollii	Memod	Value
Density @15°C	kg/l	ASTM D4052	0.876
Cubic Expansion Coefficient @20°C	(10^-4)/°C	Calculated	9
Refractive Index @20°C	-	ASTM D1218	1.501
Color	Saybolt	ASTM D156	+30
Copper Corrosion (3hr @100°C)	-	ASTM D130	1
Doctor Test	-	ASTM D235	Negative
Distillation, IBP	°C	ASTM D1078	167
Distillation, DP	°C	ASTM D1078	180
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.20
Relative Evaporation Rate (Ether=1)	-	DIN 53170	50
Antoine Constant A #	kPa, °C	-	6.74780
Antoine Constant B #	kPa, °C	-	1912.90
Antoine Constant C #	kPa, °C	-	240.330
Antoine Constants: Temperature range	°C	-	+20 to +160
Vapor Pressure @0°C	kPa	Calculated	0.06
Vapor Pressure @20°C	kPa	Calculated	0.25
Saturated Vapor Concentration @20°C	$g/m^3$	Calculated	13
Aromatics	%v/v	ASTM D1319	> 99
Benzene	mg/kg	GC	< 3
Sulfur	mg/kg	SMS 1897	< 0.5
Flash Point	°C	IP 170	48
Auto Ignition Temperature	°C	ASTM E659	507
Explosion Limit: Lower	%v/v	-	0.6
Explosion Limit: Upper	%v/v	-	7.0
Electrical Conductivity @20°C	pS/m	-	< 10

Unit

Method

Value

	Dielectric Constant @20°C	-	-	2.4			
	Aniline Point, Mixed	°C	ASTM D611	14			
	Kauri-Butanol Value	-	ASTM D1133	90			
	Pour Point	°C	ASTM D97	<-30			
	Surface Tension @20°C	mN/m	Du Nouy ring	29			
	Viscosity @25°C	$mm^2/s$	ASTM D445	0.89			
	Hildebrand Solubility Parameter	(cal/cm <sup>3</sup> )^1	/2 -	8.8			
	Hydrogen Bonding Index	-	-	5.0			
	Fractional Polarity	-	-	0.001			
	Heat of Vaporization @Tboil	kJ/kg	-	325			
	Heat of Combustion (Net) @25°C	kJ/kg	-	42000			
	Specific Heat @20°C	kJ/kg/°C	-	1.8			
	Molecular Weight	g/mol	Calculated	122			
	(#) In the Antoine temperature range, the vapor pressure P (kPa) at temperature can be calculated by means of the Antoine equation: log P = A - B/(T+C						
Test Methods	Copies of copyrighted test methods can be obtained from the issuing organisations:						
	Energy Institute (IP)	American Society for Testing and Materials (ASTM) Energy Institute (IP) Deutsches Institut für Normung (DIN)		) : www.astm.org : www.energyinst.org.uk : 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.						
	different from those mentioned in	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 A100 does not contain de metals or chlorinated compounds	ShellSol A100 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.						
Storage and Handling	Provided proper storage and handling precautions are taken we would expect ShellSol A100 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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