



Data Sheet

Issued:

22-Nov-2007

Product Name

ShellSol A100

Product Code
Q7391 Europe
Product Category
Aromatics
CAS Registry Number

64742-95-6

EINECS Number

265-199-0

Description

ShellSol A100 is a C9-C10 aromatic hydrocarbon solvent

Typical Properties

Property	Unit	Method	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

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 ³) ^{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 T (°C) 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:

American Society for Testing and Materials (ASTM) : www.astm.org
Energy Institute (IP) : www.energyinst.org.uk
Deutsches Institut für Normung (DIN) : www.din.de

Shell Method Series (SMS) methods are issued by Shell Global 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 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

All products purchased or supplied by Shell Chemicals are subject to terms and conditions set out in the contract, order acknowledgment and/or bill of lading. Shell Chemicals warrant that their product will meet those specifications designated as such herein or in other publications. All other information including that herein, supplied by Shell Chemicals is considered accurate but is furnished upon the express condition that the customer shall make its own assessment to determine the products' suitability for a particular purpose. Shell Chemicals make no other warranty either expressed or implied, regarding such other information, the data upon which the same is based, or the results to be obtained from use thereof; that any products shall be merchantable or fit for any purpose; or that the use of such other information or product will not infringe any patent.

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activities	Distribution and export of chemicals and raw materials	
VAT number	BE0405317567	NL001375945B01
recall procedure available	Yes	
emergency number (24/365)	+32 (0)56 77 69 44	+31 (0)78 6544 944
QUALITY SYSTEMS		
ISO 9001	Yes	Yes
ISO 14001	Yes	Yes
ISO 22000	Yes	Yes
FSSC 22000	Yes	Yes
GMP+ -feed	Yes	Yes
OHSAS18001	-	Yes
ESAD	Yes	Yes
other	-	AEO

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