



ShellSol A100

Product Code	Q7931
Region	North America
Product Category	Aromatic Solvents
CAS Registry Number	64742-95-6
Description	ShellSol A100 is a mixture of predominantly C9 hydrocarbons with >99% aromatic content which confers good solvency. The Hazardous Air Pollutants content is low, and it has very low sulfur content.

Typical Properties

Property	Unit	Method	Value
API Gravity	-	ASTM D4052	30.0
Specific Gravity @15.6°C/15.6°C [60°F/60°F]	-	ASTM D4052	0.875
Density @15.6°C [60°F]	kg/L	ASTM D4052	0.875
Density @15.6°C [60°F]	lb/gal	ASTM D4052	7.30
Density @15°C	kg/m ³	ASTM D4052	873
Coefficient of Cubic Expansion @20°C [68°F]	10 ⁻⁴ /°C	Calculated	9
Refractive Index @20°C [68°F]	-	ASTM D1218	1.493
Color	Saybolt	ASTM D156	+30
Copper Corrosion (1hr @100°C)	-	ASTM D130	1
Distillation, Initial Boiling Point	°C	ASTM D86	160
Distillation, Initial Boiling Point	°F	ASTM D86	320
Distillation, 50%v	°C	ASTM D86	164
Distillation, 50%v	°F	ASTM D86	327
Distillation, Dry Point	°C	ASTM D86	178
Distillation, Dry Point	°F	ASTM D86	352
Evaporation Time (nBuAc=470sec)	seconds	ASTM D3539	2260
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.21
Vapor Pressure @20°C [68°F]	kPa	Calculated	0.26

Vapor Pressure @20°C [68°F]	mmHg	Calculated	2.0
Saturated Vapor Concentration @20°C [68°F]	g/m ³	Calculated	13
Volatile Organic Compound (VOC)	g/L	EU / EPA	869
Aromatics	% m/m	GC	> 98
Benzene	mg/kg	GC	< 1
Sulfur	mg/kg	ISO 20846	< 1
Flash Point, TCC	°C	ASTM D56	47
Flash Point, TCC	°F	ASTM D56	117
Lower Explosion Limit in Air	% v/v		0.6
Upper Explosion Limit in Air	% v/v		7.0
Auto Ignition Temperature	°C	ASTM E659	507
Electrical Conductivity @20°C [68°F]	pS/m	ASTM D4308	< 10
Aniline Point (M=Mixed)	°C	ASTM D611	14 (M)
Aniline Point (M=Mixed)	°F	ASTM D611	57 (M)
Kauri-Butanol Value	-	ASTM D1133	90
Pour Point	°C	ASTM D97	<-30
Pour Point	°F	ASTM D97	<-22
Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	8.8
Hydrogen Bonding Index	-	-	5.0
Fractional Polarity	-	-	0.001
Surface Tension @20°C [68°F]	mN/m	-	29
Viscosity @25°C [77°F]	cSt	ASTM D445	0.92
Molecular Weight	g/mol	Calculated	120

Test Methods

Copies of copyrighted test methods can be obtained from the issuing organisations:

American Society for Testing and Materials (ASTM) : www.astm.org

International Organization for Standardization (ISO) : www.iso.org

N.B: For routine quality control local test methods may be applied. Such methods have been validated against those mentioned in this datasheet.

Quality

ShellSol A100 meets the requirements of ASTM D3734 Standard Specification for High Flash Aromatic Naphtas, Type I.

ShellSol A100 does not contain detectable quantities of heavy metals and chlorinated compounds.

Hazard Information

For detailed Hazard Information please refer to the Safety Data Sheet on www.shell.com/chemicals.

Storage 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 Safety Data Sheet on www.shell.com/chemicals.

Trademark

ShellSol is a Shell trademark.

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