



ShellSol W HT

Product Code	Q5119
Region	North America
Product Category	Special Boiling Point Solvents
CAS Registry Number	64742-89-8
Description	ShellSol W HT is a narrow cut, medium evaporating hydrocarbon solvent. The special cut gives the solvent its increased cycloparaffin content and solvency. The high degree of general refining gives this solvent its low level of impurities such as sulphur, olefins, benzene and total aromatics and low odor.

Typical Properties

Property	Unit	Method	Value
API Gravity	-	ASTM D4052	61.6
Specific Gravity @15.6°C/15.6°C [60°F/60°F]	-	ASTM D4052	0.733
Density @15.6°C [60°F]	kg/L	ASTM D4052	0.732
Density @15.6°C [60°F]	lb/gal	ASTM D4052	6.11
Density @15°C	kg/m ³	ASTM D4052	733
Coefficient of Cubic Expansion @20°C [68°F]	10 ⁻⁴ /°C	Calculated	12
Refractive Index @20°C [68°F]	-	ASTM D1218	1.406
Color	Saybolt	ASTM D156	+30
Copper Corrosion (1hr @100°C)	-	ASTM D130	1a
Doctor Test	-	ASTM D235	Negative
Distillation, Initial Boiling Point	°C	ASTM D86	95
Distillation, Initial Boiling Point	°F	ASTM D86	203
Distillation, 50%v	°C	ASTM D86	100
Distillation, 50%v	°F	ASTM D86	212
Distillation, Dry Point	°C	ASTM D86	114
Distillation, Dry Point	°F	ASTM D86	237
Evaporation Time (nBuAc=470sec)	seconds	ASTM D3539	149

Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	3.2
Vapor Pressure @20°C [68°F]	kPa	Calculated	5.5
Vapor Pressure @20°C [68°F]	mmHg	Calculated	40
Saturated Vapor Concentration @20°C [68°F]	g/m ³	Calculated	228
Volatile Organic Compound (VOC)	g/L	EU / EPA	729
Paraffins	% m/m	GC	45
Naphthenes	% m/m	GC	55
Aromatics	% m/m	GC	< 0.1
Benzene	mg/kg	GC	< 1
n-Hexane	%m/m	GC	< 0.1
Sulfur	mg/kg	ISO 20846	<0.5
Flash Point, TCC	°C	ASTM D56	-7
Flash Point, TCC	°F	ASTM D56	19
Lower Explosion Limit in Air	% v/v		0.8
Upper Explosion Limit in Air	% v/v		8.0
Auto Ignition Temperature	°C	ASTM E659	320
Electrical Conductivity @20°C [68°F]	pS/m	ASTM D4308	< 1
Aniline Point (M=Mixed)	°C	ASTM D611	56
Aniline Point (M=Mixed)	°F	ASTM D611	133
Kauri-Butanol Value	-	ASTM D1133	37
Pour Point	°C	ASTM D97	<-50
Pour Point	°F	ASTM D97	<-58
Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	7.5
Hydrogen Bonding Index	-	-	0.0
Fractional Polarity	-	-	0.0
Surface Tension @20°C [68°F]	mN/m	-	21
Viscosity @25°C [77°F]	cSt	ASTM D445	0.71
Molecular Weight	g/mol	Calculated	101

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 W HT does not contain detectable quantities of polycyclic aromatics, heavy metals or 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 W HT 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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