



ShellSol B HT

Product Code	Q1246
Region	North America
Product Category	Special Boiling Point Solvents
CAS Registry Number	64742-89-8
Description	ShellSol B HT is a low odor, fast evaporating hydrocarbon solvent with n-hexane as the major component. It has undergone a high degree of general refining that result in a low level of impurities such as sulfur, olefins, benzene and total aromatics.

Typical Properties

Property	Unit	Method	Value
API Gravity	-	ASTM D4052	75.1
Specific Gravity @15.6°C/15.6°C [60°F/60°F]	-	ASTM D4052	0.687
Density @15.6°C [60°F]	kg/L	ASTM D4052	0.686
Density @15.6°C [60°F]	lb/gal	ASTM D4052	5.72
Density @15°C	kg/m ³	ASTM D4052	687
Coefficient of Cubic Expansion @20°C [68°F]	10 ⁻⁴ /°C	Calculated	13
Refractive Index @20°C [68°F]	-	ASTM D1218	1.376
Color	Saybolt	ASTM D156	+30
Copper Corrosion (1hr @100°C)	-	ASTM D130	1a
Doctor Test	-	ASTM D235	Negative
Distillation, Initial Boiling Point	°C	ASTM D1078	67
Distillation, Initial Boiling Point	°F	ASTM D1078	153
Distillation, 50%v	°C	ASTM D1078	71
Distillation, 50%v	°F	ASTM D1078	160
Distillation, Dry Point	°C	ASTM D1078	86
Distillation, Dry Point	°F	ASTM D1078	187
Evaporation Time (nBuAc=470sec)	seconds	ASTM D3539	67
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	7.0

Vapor Pressure @20°C [68°F]	kPa	Calculated	18
Vapor Pressure @20°C [68°F]	mmHg	Calculated	135
Saturated Vapor Concentration @20°C [68°F]	g/m ³	Calculated	658
Volatile Organic Compound (VOC)	g/L	EU / EPA	683
Paraffins	% m/m	GC	75
Naphthenes	% m/m	GC	25
Aromatics	% m/m	GC	< 0.1
Benzene	mg/kg	GC	< 500
n-Hexane	%m/m	GC	30
Sulfur	mg/kg	ISO 20846	<0.5
Flash Point, TCC	°C	ASTM D56	-30
Flash Point, TCC	°F	ASTM D56	-22
Lower Explosion Limit in Air	% v/v		1.0
Upper Explosion Limit in Air	% v/v		7.0
Auto Ignition Temperature	°C	ASTM E659	232
Electrical Conductivity @20°C [68°F]	pS/m	ASTM D4308	< 1
Aniline Point (M=Mixed)	°C	ASTM D611	63
Aniline Point (M=Mixed)	°F	ASTM D611	145
Kauri-Butanol Value	-	ASTM D1133	32
Pour Point	°C	ASTM D97	<-50
Pour Point	°F	ASTM D97	<-58
Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	7.3
Hydrogen Bonding Index	-	-	0.0
Fractional Polarity	-	-	0.0
Surface Tension @20°C [68°F]	mN/m	-	20
Viscosity @25°C [77°F]	cSt	ASTM D445	0.51
Molecular Weight	g/mol	Calculated	89

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 B 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 B 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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