



ShellSol D60

Product Code	Q3522
Region	Europe
Product Category	Aliphatic Mineral Spirits
CAS Registry Number	64742-48-9
EINECS Number	265-150-3
Description	ShellSol D60 consists predominantly of C10- C12 paraffins and naphthenes. Deep hydrogenation gives this solvent a very low aromatic content, negligible amount of reactive impurities and a low, sweet odour.

Typical Properties

Property	Unit	Method	Value
Water	% m/m	ASTM D1364	< 0.005
Density @15°C	kg/L	ASTM D4052	0.786
Coefficient of Cubic Expansion @20°C	10 ⁻⁴ /°C	Calculated	10
Refractive Index @20°C	-	ASTM D1218	1.434
Colour	Saybolt	ASTM D156	+30
Bromine Index	mg Br/100g	ASTM D1492	< 10
Copper Corrosion (1hr @100°C)	-	ASTM D130	1
Doctor Test	-	ASTM D4952	Negative
Non Volatile Matter	mg/100ml	ASTM D1353	1
Distillation, Initial Boiling Point	°C	ASTM D86	189
Distillation, Dry Point	°C	ASTM D86	210
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.04
Relative Evaporation Rate (Ether=1)	-	DIN 53170	200
Antoine Constant A #	kPa, °C	-	6.91546
Antoine Constant B #	kPa, °C	-	2225.63
Antoine Constant C #	kPa, °C	-	257.923

Antoine Constants: Temperature range	°C	-	+70 to +200
Vapor Pressure @ 0°C	kPa	Calculated	0.02
Vapor Pressure @ 20°C	kPa	Calculated	0.08
Saturated Vapor Concentration @ 20°C	g/m ³	Calculated	5
Paraffins	% m/m	GC	50
Naphthenes	% m/m	GC	50
Aromatics	mg/kg	SMS 2728	100
Benzene	mg/kg	GC	< 3
Sulfur	mg/kg	ISO 20846	< 0.5
Flash Point	°C	ASTM D93	67
Lower Explosion Limit in Air	% v/v		0.6
Upper Explosion Limit in Air	% v/v		6.0
Auto Ignition Temperature	°C	ASTM E659	255
Electrical Conductivity @ 20°C	pS/m	ASTM D4308	< 1
Dielectric Constant @ 20°C	-	-	2.1
Aniline Point	°C	ASTM D611	71
Kauri-Butanol Value	-	ASTM D1133	31
Pour Point	°C	ASTM D97	< -50
Viscosity @ 25°C	mm ² /s	ASTM D445	1.6
Surface Tension @ 20°C	mN/m	Du Nouy ring	26
Thermal Conductivity @ 20°C	W/m/°C		0.14
Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	7.6
Hydrogen Bonding Index	-	-	0
Fractional Polarity	-	-	0
Heat of Vaporization at T _{boil}	kJ/kg	-	260
Heat of Combustion (Net) @ t 25°C	kJ/kg	-	45000
Specific Heat @ 20°C	kJ/kg/°C	-	2.0
Molecular Weight	g/mol	Calculated	162

(#) 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
International Organization for Standardization (ISO) : www.iso.org
Deutsches Institut für Normung (DIN) : www.din.de

Shell Method Series (SMS) methods are issued by Shell Global Solutions International B.V., Shell Technology Centre, Amsterdam, The Netherlands. Requests for copies of SMS can be made through your local Shell Chemicals company.

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 D60 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 D60 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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