



Data Sheet

Issued:

23-Jul-2009

Product Name

ShellSol X7B

Product Code
Q6007 Africa
Product Category
Aromatics
CAS Registry Number

Mixture

Description

ShellSol X7B is a mixture of Toluene, Xylene and saturated aliphatic hydrocarbons to meet the requirements of a medium aromatic solvent. It has a good solvent power and is fast evaporating.

Typical Properties

Property	Unit	Method	Value
Density @20°C	kg/l	ASTM D4052	0.823
Cubic Expansion Coefficient @20°C	(10 ⁻⁴)/°C	-	11
Refractive Index @20°C	-	ASTM D1218	1.467
Color	Saybolt	ASTM D156	+30
Doctor Test	-	ASTM D4952	Negative
Distillation, IBP	°C	ASTM D1078	110
Distillation, 50%v	°C	ASTM D1078	122
Distillation, DP	°C	ASTM D1078	139
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	1.3
Paraffins	% m/m	GC	15
Naphthenes	% m/m	GC	10
Aromatics	%v/v	GC	73
Benzene	ppmvol	GC	< 300
Toluene	%v/v	GC	35
Sulfur	mg/kg	ASTM D5453	< 5
Flash Point	°C	IP 170	6
Explosion Limit: Lower	%v/v	-	0.9
Explosion Limit: Upper	%v/v	-	7.1
Electrical Conductivity @20°C	pS/m	-	< 10
Aniline Point	°C	ASTM D611	-5??
Aniline Point, Mixed	°C	ASTM D611	33
Pour Point	°C	-	< -30
Surface Tension @20°C	mN/m	Du Nouy ring	27
Viscosity @25°C	mm ² /s	ASTM D445	0.67
Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	8.0

	<table> <tr> <td>Hydrogen Bonding Index</td> <td>-</td> <td>-</td> <td>3.0</td> </tr> <tr> <td>Fractional Polarity</td> <td>-</td> <td>-</td> <td>0.001</td> </tr> <tr> <td>Molecular Weight</td> <td>g/mol</td> <td>Calculated</td> <td>102</td> </tr> </table>	Hydrogen Bonding Index	-	-	3.0	Fractional Polarity	-	-	0.001	Molecular Weight	g/mol	Calculated	102
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Test Methods	<p>Copies of copyrighted test methods can be obtained from the issuing organisations:</p> <p>American Society for Testing and Materials (ASTM) : www.astm.org Energy Institute (IP) : www.energyinst.org.uk</p> <p>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.</p>												
Quality	<p>ShellSol X7B does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.</p>												
Storage and Handling	<p>Provided proper storage and handling precautions are taken we would expect ShellSol X7B 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.</p>												
Hazard Information	<p>For detailed Hazard Information please refer to the Material Safety Data Sheet on www.shell.com/chemicals.</p>												
Warranty	<p>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.</p> <p>The expression 'Shell Chemicals' refers to the companies of the Shell Group that are engaged in chemical businesses. Each of the companies that make up the Shell Group of companies is an independent entity and has its own separate identity.</p>												
Trademark	<p>ShellSol is a Shell Trademark.</p>												