

Data Sheet	Issued: 23-Nov-2007						
Product Name	Xylene S						
Product Code	T1404 Europe						
Product Category	Aromatics						
CAS Registry Number	1330-20-7						
EINECS Number	215-535-7						
Description	Xylene S is a clear colourless aromatic hydrocarbon liquid of characteristic odour.						
Typical Properties	Property	Unit	Method	Value			
	Density @15°C	kg/l	ASTM D4052	0.871			
	Cubic Expansion Coefficient @20°C	(10^-4)/°C	Calculated	10			
	Refractive Index @20°C	-	ASTM D1218	1.498			
	Color	Pt-Co	ASTM D1209	< 5			
	Distillation, IBP	°C	ASTM D1078	139			
	Distillation, DP	°C	ASTM D1078	142			
	Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.70			
	Relative Evaporation Rate (Ether=1)	-	DIN 53170	15			
	Antoine Constant A #	kPa, °C	-	7.61800			
	Antoine Constant B #	kPa, °C	-	2739.24			
	Antoine Constant C #	kPa, °C	-	348.560			
	Antoine Constants: Temperature range	°C	-	+4 to +120			
	Vapor Pressure @0°C	kPa	Calculated	0.57			
	Vapor Pressure @20°C	kPa	Calculated	1.5			
	Saturated Vapor Concentration @20°C	g/m^3	Calculated	67			
	Aromatics	% m/m	GC	> 99.5			
	Benzene	mg/kg	GC	< 100			
	Sulfur	mg/kg	SMS 1897	< 1			
	Flash Point	°C	IP 1 <i>7</i> 0	26			

Auto Ignition Temperature

Electrical Conductivity @20°C

Dielectric Constant @20°C

Explosion Limit: Lower

Explosion Limit: Upper

Aniline Point, Mixed

°C

%v/v

%v/v

pS/m

 $^{\circ}\text{C}$

ASTM E659

ASTM D611

500

1.0

7.1

< 10

2.4

10

	Kauri-Butanol Value	-	ASTM D1133	90			
	Pour Point	°C	-	< -30			
	Surface Tension @20°C	mN/m	Du Nouy ring	29			
	Viscosity @25°C	mm ² /s	ASTM D445	0.73			
	Hildebrand Solubility Parameter	(cal/cm ³)^1/ ₂	-	8.85			
	Hydrogen Bonding Index	-	-	4.5			
	Fractional Polarity	-	-	0.001			
	Heat of Vaporization @Tboil	kJ/kg	-	340			
	Heat of Combustion (Net) @25°C	kJ/kg	-	41500			
	Specific Heat @20°C	kJ/kg/°C	-	1.7			
	Thermal Conductivity @20°C	W/m/°C	-	0.13			
	Molecular Weight	g/mol	Calculated	106			
	(#) In the Antoine temperature range	(#) 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 method	Copies of copyrighted test methods can be obtained from the issuing organisations:					
	Energy Institute (IP)	American Society for Testing and Materials (ASTM) : www.astm.org Energy Institute (IP) : www.energyinst.org.uk Deutsches Institut für Normung (DIN) : www.din.de					
	International B.V., Shell Research	Shell Method Series (SMS) methods are issued by Shell Golabl Solutions International B.V., Shell Research and Technology Centre, Amsterdam, The Netherlands. Copies of SMS can be obtained through your local Shell Chemicals company.					
	different from those mentioned in	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.					
Storage and Handling	Xylene S to be technically stable fo	Provided proper storage and handling precautions are taken we would expect Xylene S 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.					
Hazard Information	For detailed Hazard Information p www.shell.com/chemicals.	For detailed Hazard Information please refer to the Material Safety Data Sheet on www.shell.com/chemicals.					
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	engaged in chemical businesses. E	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.					

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