Shell Chemicals

Data Sheet

Issued:
23-Jul-2009

Product Name **Xylene S**

Product Code **T1404** **Africa**

Product Category **Aromatics**

CAS Registry Number 1330-20-7

EINECS Number 215-535-7

Typical Properties

Property	Unit	Method	Value
Density @15°C	kg/l	ASTM D4052	0.869
Density @20°C	kg/l	ASTM D4052	0.865
Cubic Expansion Coefficient @20°C	(10^-4)/°C	Calculated	10
Refractive Index @20°C	-	ASTM D1218	1.498
Color	Saybolt	ASTM D156	+30
Acid Wash Color	-	ASTM D848	3
Distillation, IBP	°C	ASTM D86	138
Distillation, 50%v	°C	ASTM D86	139
Distillation, DP	°C	ASTM D86	140
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.70
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/m³	Calculated	67
Aromatics	%v/v	GC	> 99
Benzene	%v/v	GC	< 0.04
Non-Aromatic Hydrocarbons	%v/v	GC	< 1
Flash Point	°C	IP 170	26
Auto Ignition Temperature	°C	ASTM E659	500
Explosion Limit: Lower	%v/v	-	1.0
Explosion Limit: Upper	%v/v	-	7.1
Electrical Conductivity @20°C	pS/m	-	< 10
Aniline Point, Mixed	°C	ASTM D611	10

Kauri-Butanol Value	-	ASTM D1133	90
Pour Point	°C	ASTM D97	< -30
Surface Tension @20°C	mN/m	Du Nouy ring	29
Viscosity @25°C	mm^2/s	ASTM D445	0.73
Hildebrand Solubility Parameter	$(cal/cm^3)^{\wedge}½$	-	8.9
Hydrogen Bonding Index	-	-	4.5
Fractional Polarity	-	-	0.001
Molecular Weight	g/mol	Calculated	106

(#) 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
Energy Institute (IP) : www.energyinst.org.uk

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.

Quality

Xylene S does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.

Applications

Xylene is a good solvent for fats, waxes, pitches and many natural and synthetic resins. It is used as a solvent and diluent in paints, enamels, lacquers and varnishes. It is also employed in printing inks and adhesives, and is a most important solvent for insecticides.

Storage and Handling

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 please refer to the Material Safety Data Sheet on www.shell.com/chemicals.

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