Shell Chemicals

Data Sheet

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Product Name

SBP 100/140

Product Code **Q5811** **Europe**

Product Category **Special Boiling Point Solvents**

CAS Registry Number 64742-49-0

EINECS Number 265-151-9

Description SBP 100/140 is a C7-C9 hydrocarbon solvent. Being made from hydrogenated feedstock, its aromatics and olefins content is very low.

Typical Properties

Property	Unit	Method	Value
Density @15°C	kg/l	ASTM D4052	0.728
Cubic Expansion Coefficient @20°C	(10^-4)/°C	Calculated	12
Refractive Index @20°C	-	ASTM D1218	1.405
Color	Saybolt	ASTM D156	+30
Bromine Index	mg Br/100g	ASTM D1492	< 5
Copper Corrosion (3hr @100°C)	-	ASTM D130	1
Doctor Test	-	ASTM D235	Negative
Non Volatile Matter	mg/100ml	ASTM D1353	1
Distillation, IBP	°C	ASTM D1078	106
Distillation, DP	°C	ASTM D1078	136
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	1.9
Relative Evaporation Rate (Ether=1)	-	DIN 53170	6
Antoine Constant A #	kPa, °C	-	7.51210
Antoine Constant B #	kPa, °C	-	2541.50
Antoine Constant C #	kPa, °C	-	349.980
Antoine Constants: Temperature range	°C	-	+40 to +105
Vapor Pressure @0°C	kPa	Calculated	1.8
Vapor Pressure @20°C	kPa	Calculated	4.4
Saturated Vapor Concentration @20°C	g/m³	Calculated	198
Paraffins	% m/m	GC	65
Naphthenes	% m/m	GC	35
Aromatics	mg/kg	SMS 2728	< 5
Benzene	mg/kg	GC	< 1
n-Hexane	% m/m	GC	< 0.1

Sulfur	mg/kg	SMS 1897	< 0.5
Flash Point	°C	IP 170	1
Auto Ignition Temperature	°C	ASTM E659	310
Explosion Limit: Lower	%v/v	-	0.9
Explosion Limit: Upper	%v/v	-	6.8
Electrical Conductivity @20°C	pS/m	-	< 1
Dielectric Constant @20°C	-	-	2.0
Aniline Point	°C	ASTM D611	63
Kauri-Butanol Value	-	ASTM D1133	33
Pour Point	°C	ASTM D97	< -50
Surface Tension @20°C	mN/m	Du Nouy ring	22
Viscosity @25°C	mm^2/s	ASTM D445	0.72
Hildebrand Solubility Parameter	$(cal/cm^3)^{\wedge}½$	-	7.5
Hydrogen Bonding Index	-	-	0
Fractional Polarity	-	-	0
Heat of Vaporization @Tboil	kJ/kg	-	300
Heat of Combustion (Net) @25°C	kJ/kg	-	45500
Specific Heat @20°C	kJ/kg/°C	-	2.1
Thermal Conductivity @20°C	W/m/°C	-	0.13
Molecular Weight	g/mol	Calculated	110

(#) 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
Deutsches Institut für Normung (DIN) : www.din.de

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.

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

SBP 100/140 does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.

Hazard Information

For detailed Hazard Information please refer to the Material Safety Data Sheet on www.shell.com/chemicals.

Storage and Handling

Provided proper storage and handling precautions are taken we would expect SBP 100/140 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.

Warranty

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