Shell Chemicals

Data Sheet

Issued:

22-Nov-2007

Product Name

SBP 40/65 LNH

Product Code **Q5113** **Europe**

Product Category **Special Boiling Point Solvents**

CAS Registry Number 64742-49-0

EINECS Number 265-151-9

Description SBP 40/65 LNH is a C5-C6 paraffinic hydrocarbon solvent with a high volatility. Being made from hydrogenated feedstock, its aromatics and olefins content is very low, and it contains less than 2% n-hexane.

Typical Properties

Property	Unit	Method	Value
Density @15°C	kg/l	ASTM D4052	0.648
Cubic Expansion Coefficient @20°C	(10^-4)/°C	Calculated	15
Refractive Index @20°C	-	ASTM D1218	1.367
Color	Saybolt	ASTM D156	+30
Bromine Index	mg Br/100g	ASTM D1492	25
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	46
Distillation, DP	°C	ASTM D1078	63
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	10.7
Relative Evaporation Rate (Ether=1)	-	DIN 53170	1.0
Antoine Constant A #	kPa, °C	-	6.80590
Antoine Constant B #	kPa, °C	-	1641.22
Antoine Constant C #	kPa, °C	-	296.300
Antoine Constants: Temperature range	°C	-	-2 to +50
Vapor Pressure @0°C	kPa	Calculated	19
Vapor Pressure @20°C	kPa	Calculated	42
Saturated Vapor Concentration @20°C	g/m³	Calculated	1302
Paraffins	% m/m	GC	97
Naphthenes	% m/m	GC	3
Aromatics	mg/kg	SMS 2728	< 5
Benzene	mg/kg	GC	< 3

n-Hexane	% m/m	GC	2
Sulfur	mg/kg	SMS 1897	< 0.5
Flash Point	°C	IP 170	-50
Auto Ignition Temperature	°C	ASTM E659	392
Explosion Limit: Lower	%v/v	-	1.1
Explosion Limit: Upper	%v/v	-	7.5
Electrical Conductivity @20°C	pS/m	ASTM D4308	< 1
Aniline Point	°C	ASTM D611	71
Kauri-Butanol Value	-	ASTM D1133	30
Pour Point	°C	ASTM D97	< -50
Surface Tension @20°C	mN/m	Du Nouy ring	17
Viscosity @25°C	mm^2/s	ASTM D445	0.40
Hildebrand Solubility Parameter	$(cal/cm^3)^{\wedge}½$	-	7.1
Hydrogen Bonding Index	-	-	0
Fractional Polarity	-	-	0
Heat of Vaporization @Tboil	kJ/kg	-	340
Heat of Combustion (Net) @25°C	kJ/kg	-	46000
Specific Heat @20°C	kJ/kg/°C	-	2.3
Thermal Conductivity @20°C	W/m/°C	-	0.12
Molecular Weight	g/mol	Calculated	79

(#) 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 40/65 LNH 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 40/65 LNH 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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