



# SBP 40/65 LNH

<b>Product Code</b>	Q5113
<b>Region</b>	Europe
<b>Product Category</b>	Special Boiling Point Solvents
<b>CAS Registry Number</b>	64742-49-0
<b>EINECS Number</b>	265-151-9
<b>Description</b>	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
Water	% m/m	ASTM D1364	< 0.01
Density @15°C	kg/L	ASTM D4052	0.647
Coefficient of Cubic Expansion @20°C	10 <sup>-4</sup> /°C	Calculated	15
Refractive Index @20°C	-	ASTM D1218	1.366
Colour	Saybolt	ASTM D156	+30
Bromine Index	mg Br/100g	ASTM D1492	25
Copper Corrosion (1hr @100°C)	-	ASTM D130	1
Doctor Test	-	ASTM D4952	Negative
Non Volatile Matter	mg/100ml	ASTM D1353	<1
Distillation, Initial Boiling Point	°C	ASTM D1078	44
Distillation, Dry Point	°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/m <sup>3</sup>	Calculated	1302
Paraffins	% m/m	GC	98
Naphthenes	% m/m	GC	2
Aromatics	mg/kg	SMS 2728	< 5
Benzene	mg/kg	GC	< 3
n-Hexane	%m/m	GC	2
Sulfur	mg/kg	ISO 20846	< 0.5
Flash Point, (Abel)	°C	IP170	< -50
Lower Explosion Limit in Air	% v/v		1.1
Upper Explosion Limit in Air	% v/v		7.5
Auto Ignition Temperature	°C	ASTM E659	392
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
Viscosity @ 25°C	mm <sup>2</sup> /s	ASTM D445	0.40
Surface Tension @20°C	mN/m	Du Nouy ring	17
Thermal Conductivity @ 20°C	W/m/°C		0.11
Hildebrand Solubility Parameter	(cal/cm <sup>3</sup> ) <sup>1/2</sup>	-	7.1
Hydrogen Bonding Index	-	-	0
Fractional Polarity	-	-	0
Heat of Vaporization at T <sub>boil</sub>	kJ/kg	-	340
Heat of Combustion (Net) @t 25°C	kJ/kg	-	46000
Specific Heat @ 20°C	kJ/kg/°C	-	2.3
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](http://www.astm.org)  
International Organization for Standardization (ISO) : [www.iso.org](http://www.iso.org)  
Deutsches Institut für Normung (DIN) : [www.din.de](http://www.din.de)

Shell Method Series (SMS) methods are issued by Shell Global Solutions International B.V., Shell Technology Centre, Amsterdam, The Netherlands. Requests for copies of SMS can be made through your local Shell Chemicals company.

N.B: For routine quality control local test methods may be applied. Such methods have been validated against those mentioned in this datasheet.

## Quality

SBP 40/65 LHN does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.

## Hazard Information

For detailed Hazard Information please refer to the Safety Data Sheet on [www.shell.com/chemicals](http://www.shell.com/chemicals).

## Storage 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 Safety Data Sheet on [www.shell.com/chemicals](http://www.shell.com/chemicals).

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