Shell Chemicals

Technical Datasheet

SBP 60/95 LNH

Product Code	Q2266
Region	Europe
Product Category	Special Boiling Point Solvents
CAS Registry Number	64742-49-0
EINECS Number	265-151-9
Description	SBP 60/95 LNH is a C6 -C7 hydrocarbon solvent with a n-hexane content of less than 3%. Being made from hydrogenated feedstock, its aromatics and olefins content is very low.

Typical Properties

Property	Unit	Method	Value
Water	% m/m	ASTM D1364	< 0.01
Density @15°C	kg/L	ASTM D4052	0.703
Coefficient of Cubic Expansion @20°C	10^{-4}/°C	Calculated	13
Refractive Index @20°C	-	ASTM D1218	1.392
Colour	Saybolt	ASTM D156	+30
Bromine Index	mg Br/100g	ASTM D1492	< 5
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	70
Distillation, Dry Point	°C	ASTM D1078	92
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	6.3
Relative Evaporation Rate (Ether=1)	-	DIN 53170	2.3
Antoine Constant A #	kPa, °C	-	7.42000
Antoine Constant B #	kPa, °C	-	2205.6
Antoine Constant C #	kPa, °C	-	333.750
Antoine Constants: Temperature range	°C	-	+10 to +80

Vapor Pressure @ 0°C	kPa	Calculated	6.3
Vapor Pressure @ 20°C	kPa	Calculated	15
Saturated Vapor Concentration @ 20°C	g/m^3	Calculated	542
Paraffins	% m/m	GC	70
Naphthenes	% m/m	GC	30
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	-26
Lower Explosion Limit in Air	% v/v		1.0
Upper Explosion Limit in Air	% v/v		7.3
Auto Ignition Temperature	°C	ASTM E659	413
Electrical Conductivity @ 20°C	pS/m	ASTM D4308	< 1
Aniline Point	°C	ASTM D611	61
Kauri-Butanol Value	-	ASTM D1133	33
Pour Point	°C	ASTM D97	< -50
Viscosity @ 25°C	mm^2/s	ASTM D445	0.57
Surface Tension @20°C	mN/m	Du Nouy ring	20
Thermal Conductivity @ 20°C	W/m/°C		0.12
Hildebrand Solubility Parameter	$(cal/cm^3)^{1/2}$	-	7.3
Hydrogen Bonding Index	-	-	0
Fractional Polarity	-	-	0
Heat of Vaporization at T_{boil}	kJ/kg	-	322
Heat of Combustion (Net) @t 25°C	kJ/kg	-	45500
Specific Heat @ 20°C	kJ/kg/°C	-	2.1
Molecular Weight	g/mol	Calculated	92

(#) 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
International Organization for Standardization (ISO) : www.iso.org
Deutsches Institut für Normung (DIN) : 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 60/95 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 ww.shell.com/chemicals.

Storage Handling

Provided proper storage and handling precautions are taken we would expect SBP 60/95 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.