



Masimo Chemicals South Africa (Pty) Ltd

Technical Data Sheet

MasimoSol SBP 80/110

**Product Name** MasimoSol SBP 80/110

**Region** Europe

**Product Category** Special Boiling Point Solvents

**CAS Registry Number** 64742-49-0

**EINECS Number** 265-151-9

**Description** MasimoSol SBP 80/110 is a C6-C7 hydrocarbon solvent with an n-hexane content of less than 5%. Being made from hydrogenated feedstock, its aromatics and olefins content is very low.

### Typical Properties

Properties	Unit	Method	Value
Water	%m/m	ASTM D1364	< 0.005
Density @ 15°C	kg/L	ASTM D4052	0.721
Coefficient of Cubic Expansion @ 20°C	10 <sup>-4</sup> /°C	Calculated	13
Refractive Index @ 20°C	-	ASTM D1218	1.407
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	87
Distillation, Dry Point	°C	ASTM D1078	101
Relative evaporation rate ( $n_B \cup A_c = 1$ )	-	ASTM D3539	4.2
Relative evaporation rate (Ether=1)	-	DIN 53170	2.9
Antoine Constant A #	kPa, °C	-	7.20710
Antoine Constant B #	kPa, °C	-	2121.26
Antoine Constant C #	kPa, °C	-	319.180



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Antoine Constant Temperature range	°C	-	+20 to +85
Vapor Pressure @ 0°C	kPa	Calculated-	3.6
Vapor Pressure @ 20°C	kPa	Calculated-	9.0
Saturated Vapor Concentration @ 20°C	g/m <sup>3</sup>	Calculated	354
Paraffins	%m/m	GC	65
Naphthenes	%m/m	GC	35
Aromatics	mg/kg	SMS 2728	< 5
Benzene	mg/kg	GC	< 3
n-Hexane	%m/m	GC	3
n-Heptane	%m/m	GC	17
Sulfur	mg/kg	ISO 20846	< 0.5
Flash Point (Abel)	°C	IP 170	-14
Lower Explosion Limit in Air	%v/v		1.0
Upper Explosion Limit in Air	%v/v		7.0
Auto Ignition Temperature	°C	ASTM E659	367
Electrical Conductivity @ 20°C	pS/m	ASTM D4308	< 1
Anile Point	°C	ASTM D611	58
Kauri-Butanol Value	-	ASTM D1133	34
Pour Point	°C	ASTM D97	< -50
Viscosity @ 25°C	mm <sup>2</sup> /s	ASTM D445	0.63
Surface Tension @ 20°C	mN/m	Du Nouy ring	21
Thermal Conductivity @ 20°C	W/m°C		0.12
Hildebrand Solubility Parameter	(cal/cm <sup>3</sup> ) <sup>1/2</sup>		7.4
Hydrogen Bonding Index	-	-	0
Fractional Polarity	-	-	0
Heat of Vaporization at T <sub>boil</sub>	kJ/kg	-	320
Heat of Combustion (Net) @ 25°C	kJ/kg	-	45500
Specific Heat @ 20°C	kJ/kg°C	-	2.1
Molecular Weight	g/mol	Calculated	96



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(#) 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 of 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)

MaximoSol methods are issued by Masimo Chemicals. Requests for copies of SMS can be made through Masimo Chemicals South Africa (Pty) Ltd.

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

### Quality

MasimoSol SBP 80/110 does not contain detectable quantities of polycyclic aromatics or chlorinated compounds.

### Hazard Information

For detailed Hazard Information please refer to the Safety Data Sheet on <https://masimochem.com/>.

### Storage Handling

Provided proper storage and handling precautions are taken we would expect MasimoSol SBP 80/110 to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Safety Data Sheet on <https://masimochem.com/>.

### Warranty/Disclaimer

All products purchased or supplied by Masimo Chemicals companies are subject to the terms and conditions set out in the contract, order confirmation and/or bill of lading. All other information supplied by Masimo Chemicals companies, including that herein, is considered accurate but is furnished upon the express condition that the customer shall make its own assessment to determine a product's suitability for a particular purpose. Except as may be set forth in the applicable contract, order confirmation and/or bill of lading, Masimo Chemicals companies make no warranty, express or implied, including regarding any information supplied or the data upon which it is based on the results to be obtained from the use of such products or information, or concerning product, whether of satisfactory quality, merchantability, fitness for any particular purpose or otherwise, or with respect to intellectual property infringement as a result of use of information or products, and none shall be implied.