



<b>Region</b>	Global
<b>Product Category</b>	Synthetic normal-Paraffins
<b>CAS Registry Number</b>	129813-66-7
<b>REACH Number</b>	01-2119475608-26
<b>EC Number</b>	929-018-5

### Description

MasimoSol GTL n-Paraffin 10- 13 is a member of the product range that is derived from Gas-To-Liquid (GTL) technology. This technology delivers high quality paraffinic products of constant composition. GTL products are free of contaminants and are very low in odour.

### Typical Properties

Property	Unit	Method	Value
API Gravity	-	ASTM D4052	57.4
Specific Gravity @15.6°C/15.6°C [60°F/60°F]	-	ASTM D4052	0.749
Density @15.6°C [60°F]	kg/L	ASTM D4052	0.749
Density @15.6°C [60°F]	lb/gal	ASTM D4052	6.25
Density @15°C	kg/m <sup>3</sup>	ASTM D4053	750
Coefficient of Cubic Expansion @20°C	10 <sup>-4</sup> /°C	Calculated	9.8
Refractive Index @20°C	-	ASTM D1218	1.42
Colour	Saybolt	ASTM D156	+30
ASTM Colour		ASTM D1500	< 0.5
Copper Corrosion (1hr @ 100°C)	-	ASTM D130	1a
Distillation, Initial Boiling Point	°C	ASTM D86	191
Distillation, Final Boiling Point	°C	ASTM D86	227
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.02
Relative Evaporation Rate (Ether=1)	-	DIN 53170	700

Antoine Constant A #	kPa, °C	-	7.29594
Antoine Constant B #	kPa, °C	-	1511.0
Antoine Constant C #	kPa, °C	-	216.335
Antoine Constant: Temperature range	°C	-	+40 to +210
Vapor Pressure @20°C	kPa	Calculated	8
Vapor Pressure @50°C	kPa	Calculated	42
Saturated Vapor Concentration @20°C	g/m <sup>3</sup>	Calculated	544
Volatile Organic Compound (VOC)	g/L	EU / EPA	749
Paraffins	% m/m	GC	100
n-Paraffins	% m/m	ASTM D6729	> 93
Naphthenes	% m/m	GC	< 0.1
Aromatics	mg/kg	SMS2728	< 5
Benzene	mg/kg	GC-MS	< 0.01
Sulphur	mg/kg	ISO 20846	< 0.5
Nitrogen	mg/kg	ASTM D4629-09	< 0.1
Oxygenates as Oxygen	mg/kg	SMS 2960	< 5
Flash Point	°C	ASTM D93	72
Lower Explosion Limit in Air	% v/v		0.5
Upper Explosion Limit in Air	% v/v		5.5
Auto Ignition Temperature	°C	ASTM E659	209
Electrical Conductivity @25°C	pS/m	IEC 60247	< 1
Thermal Conductivity @20°C	W/m/°C	-	0.14
Electrical Constant @25°C	-	IEC 60247	1.92
Aniline Point	°C	ASTM D611	83
Kauri-Butanol Value	-	ASTM D1133	21
Pour Point	°C	ASTM D97	-21
Cloud Point	°C	ASTM D2500	-23
Hildebrand Solubility Parameter	(cal/cm <sup>3</sup> ) <sup>1/2</sup>	-	6.6



Surface Tension @20°C	mN/m	-	27
Viscosity @25°C (Cst)	mm <sup>2</sup> /s	ASTM D445	1.7
Viscosity @40°C (Cst)	mm <sup>2</sup> /s	ASTM D445	1.3
Molecular Weight	g/mol	Calculated	166
Bromine Index	mgBr/100g	ASTM D1492	< 20
Cetane index		ASTM D4737	78.8
Cold filter plugging point	°C	IP 309	-25
Smoke point	mm	ASTM D1322	<0.1
Appearance		Visual	Bright & clear

### Test Methods

Copies of copyrighted test methods can be obtained from the issuing organisations:

American Society for Testing and Materials (ASTM)  
International Electrotechnical Commission (IEC)  
International Organisation for Standardization (ISO)  
Deutsches Institut für Normung (DIN)  
Institute of Petroleum (IP) -now Energy Institute (EI)

[www.astm.org](http://www.astm.org)  
[www.iec.ch](http://www.iec.ch)  
[www.iso.org](http://www.iso.org)  
[www.din.de](http://www.din.de)  
[www.energyinst.org](http://www.energyinst.org)

MasimoSol series (SMS) methods are issued by Masimo Chemicals South Africa (Pty) Ltd. 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.

These characteristics are typical of current production. Whilst future production will conform to Masimo Chemicals South Africa (Pty) Ltd specification, variations in these characteristics may occur.

### Quality

MasimoSol G80 does not contain detectable quantities of heavy metals and chlorinated compounds.

### Hazard Information

For detailed Hazard Information please refer to Safety Data Sheet, which can be requested through Masimo Chemicals South Africa (Pty) Ltd.

### Storage Handling



Provided proper storage and handling precautions are taken we should expect MasimoSol GTL n-Paraffin 10- 13 to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to Masimo Chemicals South Africa (Pty) Ltd.

### **Trademark**

MasimoSol is a Masimo Chemicals South Africa (Pty) Ltd trademark.

### **Warranty/Disclaimer**

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