



**Product Category** Synthetic Paraffins

**CAS Registry Number** 1437281-01-0

**EINECS Number** 940-730-5

**Description** Masimo Chemicals MasimoSol GTL GS 270 is a member of the product range that is derived from Gas-To-Liquid (GTL) technology. This technology delivers highly paraffinic products of constant composition. GTL products are typically very low in odour to even odourless. In addition sulphur, olefins, and aromatics levels are very low and even undetectable.

**Typical Properties**

Property	Unit	Method	Value
API Gravity	-	ASTM D4052	48.9
Specific Gravity @15.6°C/15.6°C [60°F/60°F]	-	ASTM D4052	0.784
Density @15.6°C [60°F]	kg/L	ASTM D4052	0.784
Density @15.6°C [60°F]	lb/gal	ASTM D4052	6.54
Density @15°C	kg/m <sup>3</sup>	ASTM D4052	784
Coefficient of Cubic Expansion @ 20°C	10 <sup>-4</sup> /°C	Calculated	9
Refractive Index @20°C	-	ASTM D1218	1.439
Colour	Saybolt	ASTM D156	+ 30
Copper Corrosion (1hr @ 100°C)	-	ASTM D130	1a
Distillation, Initial Boiling Point	°C	ASTM D86	274
Distillation, Final Boiling Point	°C	ASTM D86	305
Relative Evaporation Rate (n <sub>B</sub> u A <sub>c</sub> = 1)	-	ASTM D3539	< 0.01
Relative Evaporation Rate (Ether=1)	-	DIN 53170	> 3900
Antoine Constant A #	kPa, °C	-	6.10654
Antoine Constant B #	kPa, °C	-	1810.9
Antoine Constant C #	kPa, °C	-	152.481

Antoine Constants: Temperature range	°C	-	+120 to +290
Vapor Pressure @ 20°C	kPa	Calculated	< 0.01
Vapor Pressure @ 50°C	kPa	Calculated	< 0.01
Saturated Vapor Concentration @ 20°C	g/m <sup>3</sup>	Calculated	1.0
Volatile Organic Compound (VOC)	g/L	EU / EPA	784
Paraffins	% m/m	GC	98
Naphthenes	% m/m	GC	2
Aromatics	mg/kg	SMS2728	< 100
Benzene	mg/kg	GC	< 1
Sulfur	mg/kg	ISO 20846	< 0.5
Flash Point	°C	ASTM D93	130
Lower Explosion Limit in Air	% v/v		0.5
Upper Explosion Limit in Air	% v/v		7.0
Auto Ignition Temperature	°C	ASTM E659	> 200
Electrical Conductivity @ 25°C	pS/m	IEC 60247	< 0.1
Electrical Constant @ 25°C	-	IEC 60247	2.06
Aniline Point	°C	ASTM D611	97
Kauri-Butanol Value	-	ASTM D1133	17
Pour Point	°C	ASTM D97	-18
Hildebrand Solubility Parameter	(cal/cm <sup>3</sup> ) <sup>1/2</sup>	-	7.5
Hydrogen Bonding Index	-	-	0
Fractional Polarity	-	-	0
Surface Tension @ 20°C	mN/m	-	29
Viscosity @ 25°C	mm <sup>2</sup> /s	ASTM D445	4.7
Viscosity @ 40°C	mm <sup>2</sup> /s	ASTM D445	3.3
Molecular Weight	g/mol	Calculated	239



Masimo Chemicals South Africa (Pty) Ltd

Technical Data Sheet

MasimoSol GTL GS 270



## 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 Electrotechnical Commission (IEC): [www.iec.ch](http://www.iec.ch)  
International Organization for Standardization (ISO): [www.iso.org](http://www.iso.org)  
Deutsches Institut für Normung (DIN): [www.din.de](http://www.din.de)

Masimo Chemicals methods are issued. Request for copies of SMS can be made through Masimo 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

Masimo Chemicals MasimoSol GTL GS 270 does not contain detectable quantities of heavy metals and chlorinated compounds.

## Storage and Handling

Provided proper storage and handling precautions are taken we would expect MasimoSol GTL GS 270 to be technically stable for at least 12 months. All detailed advice on Storage and Handling please refer to the Safety Data Sheet on [www.masimochem.com/](http://www.masimochem.com/).

## Hazard Information

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

## Trademark

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

## 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.