



Product Category Synthetic Paraffins

CAS Registry Number 1437280-85-7

EINECS Number 940-734-7

Description

MasimoSol GTL GS 310 is a member of the product range that is derived from Gas-To-Liquid (GTL) technology. This technology delivers high 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	45.3
Specific Gravity @15.6°C/15.6°C [60°F/60°F]	-	ASTM D4052	0.801
Density @15.6°C [60°F]	kg/L	ASTM D4052	0.800
Density @15.6°C [60°F]	lb/gal	ASTM D4052	6.67
Density @15°C	kg/m ³	ASTM D4052	800
Coefficient of Cubic Expansion @20°C	10 ⁻⁴ /°C	Calculated	7
Refractive Index @20°C	-	ASTM D1218	1.446
Colour	Saybolt	ASTM D156	> + 25
Copper Corrosion (1hr @ 100°C)	-	ASTM D130	1a
Distillation, Initial Boiling Point	°C	ASTM D86	310
Distillation, Final Boiling Point	°C	ASTM D86	355
Relative Evaporation Rate (nB u Ac = 1)	-	ASTM D3539	< 0.01
Relative Evaporation Rate (Ether=1)	-	DIN 53170	> 3900
Antoine Constant A #	kPa, °C	-	6.05627
Antoine Constant B #	kPa, °C	-	1871.27
Antoine Constant C #	kPa, °C	-	123.998
Antoine Constant: Temperature range	°C	-	+ 155 to + 280
Vapor Pressure @20°C	kPa	Calculated	< 0.01

Vapor Pressure @50°C	kPa	Calculated	< 0.01
Saturated Vapor Concentration @20°C	g/m ³	Calculated	1.0
Volatile Organic Compound (VOC)	g/L	EU / EPA	800
Paraffins	% m/m	GC	99
Naphthenes	% m/m	GC	1
Aromatics	mg/kg	SMS 2728	< 100
Benzene	mg/kg	GC	< 1
Sulfur	mg/kg	ISO 20846	< 0.5
Flash Point	°C	ASTM D93	160
Lower Explosion Limit in Air	% v/v		0.5
Upper Explosion Limit in Air	% v/v		7.0
Auto Ignition Temperature	°C	ASTM E659	217
Electrical Conductivity @25°C	pS/m	IEC 60247	< 0.1
Electrical Constant @25°C	-	IEC 60247	2.08
Aniline Point	°C	ASTM D611	105
Kauri-Butanol Value	-	ASTM D1133	15
Pour Point	°C	ASTM D97	- 6
Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	7.4
Hydrogen Bonding Index	-	-	0
Fractional Polarity	-	-	0
Surface Tension @20°C	mN/m	-	29
Viscosity @25°C	mm ² /s	ASTM D445	9.2
Viscosity @40°C	mm ² /s	ASTM D445	5.9
Molecular Weight	g/mol	Calculated	284

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)

www.astm.org
www.iec.ch
www.iso.org



Deutsches Institut für Normung (DIN)

www.din.de

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.

Quality

MasimoSol GTL GS 310 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 GS 310 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.

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