



Product Category Synthetic Paraffins

CAS Registry Number 848301-67-7

EINECS Number 481-740-05

Description MasimoSol GTL G70 is a high performance fluid derived from natural gas feedstock converted into synthetic paraffins with state of the art catalyst technology. Because of this combination of gaseous feedstock and intensive process control, undesirable impurities (i.e. aromatics, olefins, sulfur, etc...) are virtually non-detectable. This process technology delivers a unique mixture of inert C8-C26 synthetic paraffins which provide discerning users consistently with:

- clean burning characteristics
- low cloud/ freeze/ pour point
- low odour
- low toxicity
- low vapor pressure
- low viscosity
- ready biodegradability

MasimoSol GTL G70 is part of the Masimo Chemicals MasimoSol range of products which can be provided in varying flash points and viscosities.

Typical Properties

Property	Unit	Method	Value
API Gravity	-	ASTM D4052	50.5
Specific Gravity @ 15.6°C/15.6°C [60°F/60°F]	-	ASTM D4052	0.777
Density @ 15.6°C [60°F]	kg/L	ASTM D4052	0.777
Density @ 15.6°C [60°F]	lb/gal	ASTM D4052	6.48
Density @ 15°C	kg/m ³	ASTM D4052	778
Coefficient of Cubic Expansion @ 20°C	10 ⁻⁴ /°C	Calculated	9
Refractive Index @ 20°C	-	ASTM D1218	1.435
Color	Saybolt	ASTM D156	+30
Copper Corrosion (1hr @ 100°C)	-	ASTM D130	1a
Distillation, Initial Boiling Point	°C	ASTM D86	179

Distillation, Final Boiling Point	°C	ASTM D86	343
Relative Evaporation Rate (nB u Ac = 1)	-	ASTM D3539	< 0.01
Relative Evaporation Rate (Ether=1)	-	DIN 53170	> 3900
Vapor Pressure @ 20°C	kPa	Calculated	0.02
Vapor Pressure @ 50°C	kPa	Calculated	< 0.01
Saturated Vapor Concentration @ 20°C	g/m ³	Calculated	1.7
Volatile Organic Compound (VOC)	g/L	EU / EPA	777
Paraffins	% m/m	GC	98
Naphthenes	% m/m	GC	2
Aromatics	mg/kg	SMS 2728	< 500
Benzene	mg/kg	GC	< 5
Sulfur	mg/kg	ISO 20846	< 1
Flash Point	°C	ASTM D93	73
Flame Sustainability @ 75°C	-	ISO 9038	Pass
Lower Explosion Limit in Air	% v/v		0.5
Upper Explosion Limit in Air	% v/v		6.0
Auto Ignition Temperature	°C	ASTM E659	205
Electrical Conductivity @ 25°C	pS/m	IEC 60247	< 0.1
Electrical Constant @ 25°C	-	IEC 60247	2.05
Breakdown Voltage	kV/2.5mm	ASTM 1816	66
Ash content	% m/m	ISO 6245	< 0.001
Smoke Point	mm	ASTM D1322	> 50
Aniline Point	°C	ASTM D611	95
Kauri-Butanol Value	-	ASTM D1133	24
Cloud Point	°C	ASTM D2500	-18
Cold Filter Plugging Point	°C	IP 309	-18



Pour Point	°C	ASTM D97	-36
Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	7.5
Hydrogen Bonding Index	-	-	0
Fractional Polarity	-	-	0
Surface Tension @ 20°C	mN/m	-	28
Viscosity @ 25°C	mm ² /s	ASTM D445	3.9
Viscosity @ 40°C	mm ² /s	ASTM D445	2.6
Molecular Weight	g/mol	Calculated	209

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

Quality

MasimoSol GTL G70 does not contain detectable quantities of heavy metals and chlorinated compounds.

Hazard Information

For detailed Hazard Information please refer to the Safety Data Sheet on www.masimochem.com/.

Storage and Handling

Provided proper storage and handling precautions are taken we would expect MasimoSol GTL G70 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/.

Trademark

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

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