



Shell GTL Solvent GS190

Product Code	Q6546
Region	Global
Product Category	Synthetic Paraffins
CAS Registry Number	185857-36-7
EINECS Number	940-726-3

Description Shell GTL Solvent GS190 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	56.1
Specific Gravity @15.6°C/15.6°C [60°F/60°F]	-	ASTM D4052	0.754
Density @15.6°C [60°F]	kg/L	ASTM D4052	0.754
Density @15.6°C [60°F]	lb/gal	ASTM D4052	6.29
Density @15°C	kg/m ³	ASTM D4052	754
Coefficient of Cubic Expansion @20°C	10 ⁻⁴ /°C	Calculated	10
Refractive Index @20°C	-	ASTM D1218	1.421
Color	Saybolt	ASTM D156	+30
Copper Corrosion (1hr @100°C)	-	ASTM D130	1a
Distillation, Initial Boiling Point	°C	ASTM D86	187
Distillation, Final Boiling Point	°C	ASTM D86	205
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.03
Relative Evaporation Rate (Ether=1)	-	DIN 53170	350
Antoine Constant A #	kPa, °C	-	6.05658
Antoine Constant B #	kPa, °C	-	1574.4
Antoine Constant C #	kPa, °C	-	189.198

Antoine Constants: Temperature range	°C	-	+50 to +200
Vapor Pressure @20°C	kPa	Calculated	0.03
Vapor Pressure @50°C	kPa	Calculated	0.30
Saturated Vapor Concentration @20°C	g/m ³	Calculated	2
Volatile Organic Compound (VOC)	g/L	EU / EPA	754
Paraffins	% m/m	GC	97
Naphthenes	% m/m	GC	3
Aromatics	mg/kg	SMS2728	< 100
Benzene	mg/kg	GC	< 1
Sulfur	mg/kg	ISO 20846	< 0.5
Flash Point	°C	ASTM D93	63
Lower Explosion Limit in Air	% v/v		0.5
Upper Explosion Limit in Air	% v/v		7.0
Auto Ignition Temperature	°C	ASTM E659	205
Electrical Conductivity @25°C	pS/m	IEC 60247	< 0.1
Thermal Conductivity @20°C	W/m/°C	-	0.13
Electrical Constant @25°C	-	- IEC 60247	2.02
Aniline Point	°C	ASTM D611	82
Kauri-Butanol Value	-	ASTM D1133	24
Pour Point	°C	ASTM D97	-50
Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	7.7
Hydrogen Bonding Index	-	-	0
Fractional Polarity	-	-	0
Surface Tension @20°C	mN/m	-	26
Viscosity @25°C	mm ² /s	ASTM D445	1.6
Viscosity @40°C	mm ² /s	ASTM D445	1.3
Molecular Weight	g/mol	Calculated	164

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

Shell Method Series (SMS) methods are issued by Shell Global Solutions International B.V., Shell Technology Centre, Amsterdam, The Netherlands. Requests for copies of SMS can be made through your local Shell 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

Shell GTL Solvent GS190 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.shell.com/chemicals.

Storage Handling

Provided proper storage and handling precautions are taken we would expect Shell GTL Solvent GS190 to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Safety Data Sheet on www.shell.com/chemicals.

All products purchased or supplied by Shell 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 Shell 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, Shell chemicals companies make no warranty, express or implied, including regarding any information supplied or the data upon which it is based or 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.

The expression 'Shell Chemicals' refers to the companies of the Royal Dutch/Shell Group that are engaged in chemical businesses. Each of the companies that make up the Royal Dutch/Shell Group of companies is an independent entity and has its own separate identity.