



Product Code	002D7356
Product Category	Synthetic Paraffins
CAS Registry Number	848301-67-7

Description

Shell Gas to Liquid (GTL) Fluid G100 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, concentrations of undesirable impurities (ie aromatics, olefins, sulfur, etc.) are very low.

- clean burning characteristics
- low cloud/ freeze/ pour point
- low odor
- low toxicity
- low vapor pressure
- low viscosity at high flash point
- readily biodegradability

Shell GTL Fluid G100 is part of the Shell GTL Performance Fluids range of products which can be provided with varying flash points and viscosities.

Typical Properties

Property	Unit	Method	Value
API Gravity	-	ASTM D4052	49.7
Specific Gravity @15.6°C/15.6°C [60°F/60°F]	-	ASTM D4052	0.78
Density @15°C	kg/m ³	ASTM D4052	785
Coefficient of Cubic Expansion @20°C	10 ⁻⁴ /°C	Calculated	10
Color	Saybolt	ASTM D156	30
Distillation, Initial Boiling Point	°C	ASTM D86	237
Distillation, Final Boiling Point	°C	ASTM D86	348
Antoine constant A	kPa, °C	-	6.8701
Antoine constant B	kPa, °C	-	1798.64

Antoine constant C	kPa, °C	-	166.555
Vapor Pressure @20°C	kPa	Calculated	<0.01
Volatile Organic Compound (VOC), CARB LVP VOC Exemption	% exempted	-	100
Paraffins	% m/m	GC	>99
Naphthenes	% m/m	GC	0.5
Aromatics	% m/m	ASTM D6591	<0.02
Benzene	mg/kg	GC	<0.01
BTEX	mg/kg	GC	<0.1
Sulfur	mg/kg	ASTM D5453	<1
Flash Point	°C	ASTM D93	104
Electrical Conductivity @20°C	pS/m	ASTM D2624	<1
Pour Point	°C	ASTM D97	-24
Surface Tension @20°C	mN/m	-	28
Viscosity @40°C	mm ² /s	ASTM D445	3.5
Aniline point	°C	ASTM D611	98
Kauri Butanol (KB) value	-	ASTM 1133	18
Cloud point	°C	ASTM D2500	-16
Bromine index	Mg Br/100g	ASTM D2710	<0.5

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

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 Fluid G100 does not contain detectable quantities of heavy metals and chlorinated compounds.

Hazard Information

For detailed Hazard Information please refer to the products Safety Data Sheet.

Storage Handling

Provided proper storage and handling precautions are taken we would expect Shell GTL Fluid G100 to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Safety Data Sheet.

Disclaimer

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