



Shell GTL Solvent GS310

| | |
|---------------------|---------------------|
| Product Code | Q6544 |
| Region | Global |
| Product Category | Synthetic Paraffins |
| CAS Registry Number | 1437280-85-7 |
| EINECS Number | 940-734-7 |

Description Shell GTL Solvent GS310 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 | 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 |
| Color | 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 (nBuAc=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 Constants: 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 | SMS2728 | < 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) : 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 GS310 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 GS310 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.