



Shell GTL Solvent GS215

Product Code	Q6541
Region	Global
Product Category	Synthetic Paraffins
CAS Registry Number	18437281-03-2
EINECS Number	940-727-9

Description Shell GTL Solvent GS215 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	52.9
Specific Gravity @15.6°C/15.6°C [60°F/60°F]	-	ASTM D4052	0.767
Density @15.6°C [60°F]	kg/L	ASTM D4052	0.767
Density @15.6°C [60°F]	lb/gal	ASTM D4052	6.40
Density @15°C	kg/m ³	ASTM D4052	767
Coefficient of Cubic Expansion @20°C	10 ⁻⁴ /°C	Calculated	10
Refractive Index @20°C	-	ASTM D1218	1.428
Color	Saybolt	ASTM D156	+30
Copper Corrosion (1hr @100°C)	-	ASTM D130	1a
Distillation, Initial Boiling Point	°C	ASTM D86	218
Distillation, Final Boiling Point	°C	ASTM D86	247
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	< 0.01
Relative Evaporation Rate (Ether=1)	-	DIN 53170	2300
Antoine Constant A #	kPa, °C	-	5.81277
Antoine Constant B #	kPa, °C	-	1496.42
Antoine Constant C #	kPa, °C	-	162.330

Antoine Constants: Temperature range	°C	-	+70 to +230
Vapor Pressure @20°C	kPa	Calculated	< 0.01
Vapor Pressure @50°C	kPa	Calculated	0.06
Saturated Vapor Concentration @20°C	g/m ³	Calculated	0.8
Volatile Organic Compound (VOC)	g/L	EU / EPA	767
Paraffins	% m/m	GC	98
Naphthenes	% m/m	GC	2
Aromatics	mg/kg	SMS2728	< 100
Benzene	mg/kg	GC	< 1
Sulfur	mg/kg	ISO 20846	< 0.5
Flash Point	°C	ASTM D93	85
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 @20°C	pS/m	IEC 60247	< 0.1
Electrical Constant @25°C	-	IEC 60247	2.03
Aniline Point	°C	ASTM D611	87
Kauri-Butanol Value	-	ASTM D1133	22
Pour Point	°C	ASTM D97	-50
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	2.2
Viscosity @40°C	mm ² /s	ASTM D445	1.7
Molecular Weight	g/mol	Calculated	189

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 GS215 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 GS215 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.

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