



Solvente 4

Product Code	Q2275
Region	South America
Product Category	Special Boiling Point Solvents
CAS Registry Number	64742-89-8
Description	Solvente 4 is a narrow cut, medium evaporating hydrocarbon solvent with a mixture of paraffins, naphthenes, and aromatics which gives the solvent its increased solvency power. The high degree of general refining gives this special boiling point solvent its low level of impurities such as sulfur, olefins, and benzene. This product is insoluble in water and therefore not miscible.

Sales Specifications

Property	Unit	Min	Max	Method
Benzene	mg/kg		<1000	GC
Color, Saybolt		+25		ASTM D156
Copper Corrosion (3hr/100°C)			1	ASTM D130
Doctor Test			Negative	ASTM D235
Distillation, IBP	°C	50	67	ASTM D1078
Distillation, DP	°C	75	97	ASTM D1078
Recovery	°C	96.0		ASTM D1078

Typical Properties

Property	Unit	Method	Value
API Gravity	-	ASTM D4052	75.5
Specific Gravity @15.6°C/15.6°C [60°F/60°F]	-	ASTM D4052	0.684
Density @15.6°C [60°F]	kg/L	ASTM D4052	0.682
Density @15.6°C [60°F]	lb/gal	ASTM D4052	5.69

Density @15°C	kg/m ³	ASTM D4052	683
Coefficient of Cubic Expansion @20°C [68°F]	10 ⁻⁴ /°C	Calculated	13
Refractive Index @20°C [68°F]	-	ASTM D1218	1.383
Color	Saybolt	ASTM D156	+30
Copper Corrosion (1hr @100°C)	-	ASTM D130	1a
Doctor Test	-	ASTM D235	Negative
Distillation, Initial Boiling Point	°C	ASTM D1078	55
Distillation, Initial Boiling Point	°F	ASTM D1078	131
Distillation, 50%v	°C	ASTM D1078	64
Distillation, 50%v	°F	ASTM D1078	147
Distillation, Dry Point	°C	ASTM D1078	98
Distillation, Dry Point	°F	ASTM D1078	208
Evaporation Time (nBuAc=470sec)	seconds	ASTM D3539	64
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	7.3
Vapor Pressure @20°C [68°F]	kPa	Calculated	21
Vapor Pressure @20°C [68°F]	mmHg	Calculated	158
Saturated Vapor Concentration @20°C [68°F]	g/m ³	Calculated	817
Volatile Organic Compound (VOC)	g/L	EU / EPA	679
Paraffins	% m/m	GC	65
Naphthenes	% m/m	GC	35
Aromatics	% m/m	GC	0.04
Benzene	mg/kg	GC	180
n-Hexane	%m/m	GC	2
Sulfur	mg/kg	ISO 20846	<0.5
Flash Point, TCC	°C	ASTM D56	-33
Flash Point, TCC	°F	ASTM D56	-27
Lower Explosion Limit in Air	% v/v		1.1
Upper Explosion Limit in Air	% v/v		7.4
Auto Ignition Temperature	°C	ASTM E659	413
Electrical Conductivity @20°C [68°F]	pS/m	ASTM D4308	<1
Aniline Point (M=Mixed)	°C	ASTM D611	61
Aniline Point (M=Mixed)	°F	ASTM D611	142
Kauri-Butanol Value	-	ASTM D1133	33
Pour Point	°C	ASTM D97	<-50
Pour Point	°F	ASTM D97	<-58

Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	7.3
Hydrogen Bonding Index	-	-	0.0
Fractional Polarity	-	-	0.0
Surface Tension @20°C [68°F]	mN/m	-	21
Viscosity @25°C [77°F]	cSt	ASTM D445	0.49
Molecular Weight	g/mol	Calculated	83

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 Organization for Standardization (ISO) : www.iso.org

N.B: For routine quality control local test methods may be applied. Such methods have been validated against those mentioned in this datasheet.

Quality

Solvente 4 does not contain detectable quantities of polycyclic aromatics, heavy metals or 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 Solvente 4 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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