



Shell Chemicals

ShellSol® A150ND

TECHNICAL DATASHEET

Aromatic Solvents
SICC Product Code: Q7497
CAS Registry Number: 64742-94-5
EC Number: 918-811-1

Description

ShellSol® A150ND is a C₁₀ aromatic hydrocarbon solvent with a naphthalene content below 1 %m/m.

Typical Physical Properties

Property	Unit	Value	Method
Density @ 15°C	kg/l	0.888	ASTM D4052
Coefficient of Cubic Expansion @ 20°C	10 ⁻⁴	9	calculated
Refractive Index @ 20°C	-	1.508	ASTM D1218
Colour	Saybolt	+30	ASTM D156
Copper Corrosion (1hr @ 100°C)	-	1	ASTM D130
Doctor Test	-	Negative	ASTM D4952
Non-Volatile Matter	mg/100 ml	1	ASTM D1353
Distillation, Initial Boiling Point	°C	188	ASTM D86
Distillation, Dry Point	°C	198	ASTM D86
Relative Evaporation rate (nBuAc=1)	-	0.06	ASTM D3539
Antoine Constant A [#]	kPa, °C	7.45653	-
Antoine Constant B [#]	kPa, °C	2459.76	-
Antoine Constant C [#]	kPa, °C	269.313	-
Antoine Constants: Temperature range	°C	+20 to +140	-

Notes:

#: In the Antoine temperature range, the vapor pressure P (kPa) at temperature T (°C) can be calculated by means of the Antoine equation:

$$\log P = A - B/(T+C).$$



Typical Physical Properties

Property	Unit	Value	Method
Vapor Pressure @ 0°C	kPa	0.02	Calculated
Vapor Pressure @ 20°C	kPa	0.09	Calculated
Saturated Vapor Concentration @ 20°C	g/m ³	5	Calculated
Aromatics	% m/m	> 99	GC
Benzene	mg/kg	< 3	GC
Sulfur	mg/kg	< 0.5	ISO 20846
Flashpoint	°C	63	ASTM D93
Lower Explosion Limit in Air	%v/v	0.6	-
Upper Explosion Limit in Air	%v/v	7.0	-
Auto Ignition Temperature	°C	496	ASTM E659
Electric Conductivity @ 20°C	pS/m	< 10	ASTM D4308
Dielectric constant @ 20°C	-	2.4	-
Aniline Point, Mixed	°C	15	ASTM D611
Kauri-Butanol value	-	95	ASTM D1133
Pour Point	°C	< -15	ASTM D97
Viscosity @ 25°C	mm ² /s	1.2	ASTM D445
Surface Tension @ 20°C	mN/m	30	Du Nouy ring
Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	8.7	-
Hydrogen Bonding Index	-	5.3	-
Fraction Polarity	-	0.001	-
Heat of Vaporization at T _{boil}	kJ/kg	295	-
Heat of Combustion (Net) @t 25°C	kJ/kg	42000	-
Specific Heat @ 20°C	kJ/kg/°C	1.8	-
Thermal Conductivity @ 20°C	W/m/°C	0.13	-
Molecular Weight	g/mol	130	Calculated



Test Methods

Copies of copyrighted test methods can be obtained from the issuing organisations:

- American Society for Testing and Materials (ASTM)
- International Organization for Standardization (ISO)
- Deutsches Institut für Normung (DIN)

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

ShellSol® A150ND 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.

Access Safety Data Sheets here: [Safety Data Sheets](#)

Storage and Handling

Provided proper storage and handling precautions are taken we would expect ShellSol® A150ND to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Safety Data Sheet

Shell Warranties

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