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Typical Product Specifications & Properties

Heptane

CAS Number: : 142-82-5

Specifications	Limits
Density	0.68368 (20 c)
Surface Tension	19.7 dynescm
Dielectric Constant	1.925
Auto/Self Ignition Temperature	temp. 204 c
Flash Point (Abel)	-7 C
Refractive Index @ 20° C	1.397
Colour	+30 Saybolt
Bromine Index	<5 mg Br/100g
Saturated Vapour Concentration @ 20C	275 g/m ³
Upper Explosion Limit in Air	7.0 % v/v
Electrical Conductivity @ 20C	<1 pS/m
Aniline point	61 C



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Specifications	Limits
Pour point	<-50 C
Kauri-Butanol Number	32
Viscosity @ 25°C	0.64 mm ² /s
Coefficient of Cubic Expansion @ 20C	13 10 ⁻⁴ /C
Distillation - Initial Boiling Point	95 C
Relative Evaporation Rate (nBuAc=1)	3.9
Relative Evaporation Rate (Ether=1)	3.0
Antoine Constant A #	7.72070 kPa, C
Temperature Limits for Antoine Equation	+30 to +90 C
Vapour Pressure @ 0C	2.7 kPa
Vapour Pressure @ 20C	6.8 kPa
Paraffins	70 % m/m



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Specifications	Limits
Naphthenes	30 % m/m
Benzene	<3 mg/kg
n-Hexane	<0.1 % m/m
Sulphur	<0.5 mg/kg
Lower Explosion Limit in Air	1.0 % v/v
Auto Ignition Temp	215 C (ASTM E659)
Surface Tension @ 20C	21 mN/m
Thermal Conductivity @ 20C	0.12 W/m/C

Specifications	Limits
Hildebrand Solubility Parameter	7.5 (cal/cm ³) ^{1/2}
Hydrogen Bonding Index	0
Fractional Polarity	0
Density @ 15 ° C	0.711 kg/L



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Specifications	Limits
Distillation - Dry Point	99 C
Antoine Constant B #	2545.47 kPa, C
Antoine Constant C #	349.430 kPa, C
Aromatics	<5 mg/kg
Molecular weight	99 g/mol
Odor	gasoline-like odor
Insolubility	in water
Vapor Pressure	45.7 mm hg
Melting Point	-91 c
Refractive Index	1.38764 (20 c)
Color	volatile colorless liquid
Flash Point	(cc) -3.89 c



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Specifications	Limits
Solubility	alcohol, ether, chloroform
Boiling Point	98.428 c
Chemical Structure	



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