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Typical Product Specifications & Properties

Hexane Polymerisation/Extraction

CAS Number: : 64742-49-0

Specifications	Limits
Relative Evaporation Rate (Ether=1)	1.4
Electrical Conductivity @ 20C	<1 pS/m
Density @ 15 ° C	0.675 kg/L
Bromine Index	<5 mg Br/100g
Antoine Constant C #	326.200 kPa, C
Vapour Pressure @ 20C	19 kPa
n-Hexane	52 % m/m
Pour point	<-50 C
Refractive Index @ 20° C	1.379
Colour	+30 Saybolt
Distillation - Dry Point	70 C
Temperature Limits for Antoine Equation	+20 to +70 C



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Specifications	Limits
Aromatics	<5 mg/kg
Upper Explosion Limit in Air	7.4 % v/v
Hydrogen Bonding Index	0
Fractional Polarity	0
Molecular weight	86 g/mol
Coefficient of Cubic Expansion @ 20C	13 10 ⁻⁴ /C
Distillation - Initial Boiling Point	66 C
Relative Evaporation Rate (nBuAc=1)	8.0
Saturated Vapour Concentration @ 20C	381 g/m ³
Paraffins	85 % m/m
Benzene	<3 mg/kg
Sulphur	<0.5 mg/kg



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Specifications	Limits
Lower Explosion Limit in Air	1.1 % v/v
Auto Ignition Temp	375 C (ASTM E659)
Auto Ignition Temp	270 C (DIN 51794)
Kauri-Butanol Number	31
Viscosity @ 25°C	0.49 mm ² /s
Surface Tension @ 20C	19 mN/m
Thermal Conductivity @ 20C	0.12 W/m/C
Antoine Constant A #	7.38070 kPa, C

Specifications	Limits
Antoine Constant B #	2110.27 kPa, C
Vapour Pressure @ 0C	8.2 kPa
Naphthenes	15 % m/m
Flash Point (Abel)	-30 C



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Specifications	Limits
Aniline point	65 C
Hildebrand Solubility Parameter	7.3 (cal/cm ³) ^{1/2}



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