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## Typical Product Specifications & Properties

# n-Pentane

CAS Number: : 109-66-0

Specifications	Limits
Density	0.62624
Surface Tension	15.48 dynescm
Dielectric Constant	1.841
Auto/Self Ignition Temperature	temp. 260 c
Vapour Pressure @ 0C	27 kPa
Density @ 15 ° C	0.631 kg/L
Refractive Index @ 20° C	1.358
Distillation - Initial Boiling Point	35 C
Relative Evaporation Rate (Ether=1)	<1.0
Antoine Constant B #	1438.75 kPa, C
Saturated Vapour Concentration @ 20C	1728 g/m <sup>3</sup>
Naphthenes	<1 % m/m



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Specifications	Limits
Aromatics	<5 mg/kg
Coefficient of Cubic Expansion @ 20C	16 10 <sup>-2</sup> /C
Bromine Index	50 mg Br/100g
Benzene	<3 mg/kg
n-Hexane	<0.1 % m/m
Auto Ignition Temp	404 C (ASTM E659)
Electrical Conductivity @ 20C	<1 pS/m
Kauri-Butanol Number	29
Thermal Conductivity @ 20C	0.12 W/m/C
Hildebrand Solubility Parameter	7.0 (cal/cm <sup>3</sup> ) <sup>1/2</sup>
Fractional Polarity	0
Molecular weight	72 g/mol



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Specifications	Limits
Colour	+30 Saybolt
Distillation - Dry Point	37 C
Relative Evaporation Rate (nBuAc=1)	12
Antoine Constant C #	280.050 kPa, C
Temperature Limits for Antoine Equation	-5 to +25 C
Vapour Pressure @ 20C	58 kPa
Sulphur	<0.5 mg/kg
Flash Point (Abel)	<-50 C

Specifications	Limits
Lower Explosion Limit in Air	1.4 % v/v
Upper Explosion Limit in Air	7.8 % v/v
Auto Ignition Temp	275 C (DIN 51794)
Aniline point	71 C



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Specifications	Limits
Pour point	<-50 C
Viscosity @ 25°C	0.35 mm <sup>2</sup> /s
Surface Tension @ 20C	16 mN/m
Hydrogen Bonding Index	0
Antoine Constant A #	6.56180 kPa, C
Paraffins	>99 % m/m
Odor	gasoline-like odor
Insolubility	in water
Vapor Pressure	400 mm hg (18.5 c)
Color	colorless liquid
Flash Point	(cc) -49 c
Solubility	alcohol, oxygenated, chlorinated, and hydrocarbon solvs.



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Specifications	Limits
Boiling Point	36 c
Chemical Structure	



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