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Typical Product Specifications & Properties

Isopentane

CAS Number: : 78-78-4

Specifications	Limits
Density	0.625 (20 c)
Distillation - Initial Boiling Point	28 C
Antoine Constant B #	1791.83 kPa, C
Vapour Pressure @ 0C	36 kPa
Naphthenes	<1 % m/m
n-Hexane	<0.1 % m/m
Upper Explosion Limit in Air	7.6 % v/v
Surface Tension @ 20C	15 mN/m
Hildebrand Solubility Parameter	6.8 (cal/cm ³) ^{1/2}
Density @ 15 ° C	0.624 kg/L
Coefficient of Cubic Expansion @ 20C	16 10 ⁻⁴ /C
Bromine Index	20 mg Br/100g



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Specifications	Limits
Distillation - Dry Point	32 C
Relative Evaporation Rate (Ether=1)	<1.0
Antoine Constant C #	318.690 kPa, C
Temperature Limits for Antoine Equation	-5 to +25 C
Vapour Pressure @ 20C	77 kPa
Saturated Vapour Concentration @ 20C	2275 g/m ³
Paraffins	>99 % m/m
Aromatics	<5 mg/kg
Benzene	<3 mg/kg
Sulphur	<0.5 mg/kg
Flash Point (Abel)	<-50 C
Lower Explosion Limit in Air	1.3 % v/v



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Specifications	Limits
Auto Ignition Temp	468 C (ASTM E659)
Auto Ignition Temp	370 C (DIN 51794)
Electrical Conductivity @ 20C	<1 pS/m
Aniline point	77 C
Pour point	<-50 C
Kauri-Butanol Number	29
Viscosity @ 25°C	0.35 mm ² /s
Thermal Conductivity @ 20C	0.11 W/m/C

Specifications	Limits
Hydrogen Bonding Index	0
Fractional Polarity	0
Molecular weight	71 g/mol
Antoine Constant A #	7.17660 kPa, C



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Specifications	Limits
Refractive Index @ 20° C	1.354
Relative Evaporation Rate (nBuAc=1)	15
Colour	+30 Saybolt
Odor	gasoline-like odor
Insolubility	in water
Vapor Pressure	595 mm hg (21 c)
Color	colorless volatile liquid
Flash Point	-51 c
Solubility	hydrocarbons, alcohol, oils, ether
Boiling Point	27.85 c
Chemical Structure	 parchem fine & specialty chemicals



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