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## Typical Product Specifications & Properties

# Acetone HP

CAS Number: : 67-64-1

Specifications	Limits
Azeotrope with water: Solvent Content	non-azeotropic
Heat of Vaporization @Tboil	525 kJ/kg
Azeotrope with Water: Boiling Point	non-azeotropic
Lower Explosion Limit	2.1% v/v
Upper Explosion Limit	13% v/v
Electrical Conductivity @ 20C	20 uS/m
Dielectric Constant @ 20C	21.4
Freezing Point	-95 C
Surface Tension @ 20C	24 mN/m
Hildebrand Solubility Parameter	10.0 (cal/cm <sup>3</sup> ) <sup>1/2</sup>
Dilution Ration SBP 100/140	0.8
Heat of Combustion (Net) @25C	29000 kJ/kg



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Specifications	Limits
Thermal Conductivity @ 20C	0.16 W/m/C
Miscibility @20C: Solvent in water	Complete
Molecular weight	58 g/mol
Auto Ignition Temp	540 C
Vapor Pressure @ 50C	82 kPa
Color	<5 Pt-Co
Water	0.1% m/m
Purity	99.8% m/m
Coefficient of Cubic Expansion @ 20C	14 10 <sup>-4</sup> /C
Refractive Index @ 20° C	1.359
Boiling Point	56
Relative Evaporation Rate (nBuAc=1)	5.6



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Specifications	Limits
Relative Evaporation Rate (Ether=1)	2.0
Vapour Pressure @ 20C	25 kPa
Antoine Constant B #	1216.69 kPa, C
Density @ 20C	0.791 kg/L
Antoine Constant C #	230.275 kPa, C
Antoine Constant A #	6.25478 kPa, C
Temperature Limits for Antoine Equation	-50 to +70 C
Flash Point (Abel)	-18 C

Specifications	Limits
Saturated Vapour Concentration @ 20C	589 g/m <sup>3</sup>
Viscosity @ 20C	0.32 mPa.s
Fractional Polarity	0.695
Dilution Ration: Toluene	4.2



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Specifications	Limits
Miscibility @20C: Water in solvent	Complete
Hydrogen Bonding Index	12.5
Specific Heat @20C	2.2 kJ/kg/C
Odor	sweetish odor, pungent sweetish taste
Vapor Pressure	400 mm hg (39.5 c)
Melting Point	-94.3 c
Flash Point	(cc) -18 c
Specific gravity	0.792 (2020 c)
Solubility	water, alcohol, chloroform, dimethylformamide, ether, most volatile oils



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