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## Typical Product Specifications & Properties

# Isopropyl Alcohol - GMP

CAS Number: : 67-63-0

Specifications	Limits
Coefficient of Cubic Expansion @ 20C	11 10 <sup>-4</sup> /C
Hydrogen Bonding Index	-16.7
Miscibility @20C: Solvent in water	complete
Water	0.03% m/m
Density @ 20C	0.785 kg/L
Color	<5 Pt-Co
Boiling Point	82 C
Relative Evaporation Rate (Ether=1)	11
Antoine Constant A #	6.86618 kPa, C
Antoine Constant C #	197.592 kPa, C
Vapour Pressure @ 20C	4.1 kPa
Saturated Vapour Concentration @ 20C	102 g/m <sup>3</sup>



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Specifications	Limits
Lower Explosion Limit	2.0% v/v
Freezing Point	-88 C
Viscosity @ 20C	2.4 mPa.s
Heat of Vaporization @Tboil	664 kJ/kg
Heat of Combustion (Net) @25C	31000 kJ/kg
Specific Heat @20C	2.6 kJ/kg/C
Azeotrape with Water: Boiling Point	80.3 C
Azeotrope with water: Solvent Content	87.4% m/m
Molecular weight	60 g/mol
Purity	99.9% m/m min
Refractive Index @ 20° C	1.378
Antoine Constant B #	1360.13 kPa, C



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Specifications	Limits
Temperature Limits for Antoine Equation	-10 to +90 C
Vapor Pressure @ 50C	24 kPa
Flash Point (Abel)	12 C
Auto Ignition Temp	425 C
Upper Explosion Limit	12% v/v
Electrical Conductivity @ 20C	6 uS/m
Surface Tension @ 20C	23 mN/m
Thermal Conductivity @ 20C	0.14 W/m/C

Specifications	Limits
Miscibility @20C: Water in solvent	complete
Relative Evaporation Rate (nBuAc=1)	1.5
Dielectric Constant @ 20C	18.6
Hildebrand Solubility Parameter	11.5 (cal/cm <sup>3</sup> ) <sup>1/2</sup>



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Specifications	Limits
Fractional Polarity	0.178
Odor	pleasant alcohol-like odor, sl. bitter taste
Insolubility	in salt solns.
Refractive Index	1.3756 (20 c)
Flash Point	(toc) 11.7 c
Specific gravity	0.7863 (2020 c)
Solubility	water, alcohol, ether, chloroform, most org. solvs.



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