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Typical Product Specifications & Properties

Isopropyl Alcohol C+

CAS Number: : 67-63-0

Specifications	Limits
Surface Tension @ 20C	23 mN/m
Density @ 20C	0.785 kg/L
Coefficient of Cubic Expansion @ 20C	11 10 ⁻⁴ /C
Boiling Point	82 C
Antoine Constant A #	6.86618 kPa, C
Antoine Constant C #	197.592 kPa, C
Vapor Pressure @ 50C	24 kPa
Saturated Vapour Concentration @ 20C	102 g/m ³
Auto Ignition Temp	425 C
Freezing Point	-88 C
Hildebrand Solubility Parameter	11.5 (cal/cm ³) ^{1/2}
Hydrogen Bonding Index	-16.7



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Specifications	Limits
Heat of Vaporization @Tboil	664 kJ/kg
Heat of Combustion (Net) @25C	31000 kJ/kg
Specific Heat @20C	2.6 kJ/kg/C
Miscibility @20C: Water in solvent	complete
Purity	99.9% m/m min
Water	0.03% m/m
Refractive Index @ 20° C	1.378
Color	<5 Pt-Co
Relative Evaporation Rate (nBuAc=1)	1.5
Relative Evaporation Rate (Ether=1)	11
Temperature Limits for Antoine Equation	-10 to +90 C
Vapour Pressure @ 20C	4.1 kPa



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Specifications	Limits
Flash Point (Abel)	12 C
Electrical Conductivity @ 20C	6 uS/m
Dielectric Constant @ 20C	18.6
Thermal Conductivity @ 20C	0.14 W/m/C
Azeotrope with Water: Boiling Point	80.3 C
Azeotrope with water: Solvent Content	87.4% m/m
Molecular weight	60 g/mol
Lower Explosion Limit	2.0% v/v

Specifications	Limits
Upper Explosion Limit	12% v/v
Viscosity @ 20C	2.4 mPa.s
Fractional Polarity	0.178
Miscibility @20C: Solvent in water	complete



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Specifications	Limits
Antoine Constant B #	1360.13 kPa, C
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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