

Isopropyl Alcohol

Product Category	Alcohols
CAS Registry Number	67-63-0
Synonym(s)	2-propanol, IPA
Description	Isopropyl Alcohol (IPA) is a solvent for epoxy and acrylic resins. ethyl cellulose, polyvinyl butyral, alkaloids, gums, shellac, natural resins, and many essential oils. It functions as a latent solvent in solvent systems for nitrocellulose. It is a medium evaporating solvent and is completely miscible with most solvents.

Typical Properties

Property	Unit	Method	Value
Purity, min.	%m/m	GC	99.8
Water	%m/m	ASTM D1364	0.03
Acidity (as Acetic Acid)	%m/m	ASTM D1613	0.001
Density at 20°C	kg/l	ASTM D4052	0.785
Specific Gravity at 20°C/20°C	-	ASTM D4052	0.786
Specific Gravity at 25°C/25°C	-	ASTM D4052	0.783
Coefficient of Cubic Expansion at 20°C	10 ⁻⁴ /°C	Calculated	11
Refractive Index at 20°C	-	ASTM D1218	1.377
Color	Pt-Co	ASTM D1209	< 5
Boiling Point	°C	-	82
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	1.5
Relative Evaporation Rate (Ether=1)	-	DIN 53170	11
Antoine Constant A #	kPa. °C	-	6.86618
Antoine Constant B #	kPa. °C	-	1360.13
Antoine Constant C #	kPa. °C	-	197.592
Temperature Limits for Antoine Equation #	°C	-	-10 to +90

kPa	Calculated	4.1
kPa	Calculated	24
g/m³	Calculated	102
g/l	EU / EPA	785
°C	IP 170	12
°C	ASTM E659	425
%v/v	-	2.0
%v/v	-	12
pS/m	ASTM D4308	6*10 ⁶
-	-	18.6
°C	-	-88
mN/m	-	23
mPa.s	-	2.4
(cal/cm ³) ^{1/2}	-	11.5
-	-	-16.7
-	-	0.178
kJ/kg	-	664
kJ/kg	-	31000
kJ/kg/°C	-	2.56
W/m/°C	-	0.14
%m/m	-	complete
%m/m	-	complete
°C	-	80.3
%m/m	-	87.4
g/mol	-	60
	kPa g/m ³ g/l °C °C %v/v %v/v pS/m - %r/ pS/m - °C mN/m mPa.s (cal/cm ³) ^{1/2} - kJ/kg kJ/kg kJ/kg kJ/kg kJ/kg kJ/kg kJ/kg %m/m	kPa Calculated g/m³ Calculated g/l EU / EPA °C IP 170 °C ASTM E659 %v/v - %v/v - pS/m ASTM D4308 - - °C - pS/m ASTM D4308 - - °C - mN/m - mPa.s - (cal/cm³) ^{1/2} - . - kJ/kg - kJ/kg - %m/m - %m/m - %m/m -

Quality

Isopropyl Alcohol as produced and delivered complies with ACS 10th Edition Reagent Grade (General Use), ASTM D770, DIN 53245 and FED MIL Spec TT-I-735A. Isopropyl Alcohol does not contain detectable quantities of polycyclic aromatics, heavy metals or compounds.