

Iso Butyl Alcohol Industrial Grade

CAS NO. 78-83-1

Product Description	Key Features	Application
<ul style="list-style-type: none"> Isobutyl Alcohol (IBA) is a clear, mobile, neutral liquid with a characteristic odour. It is miscible with all common solvents, e.g. alcohols, ketones, aldehydes, ethers, glycols and aliphatic hydrocarbons. Its miscibility with water, however, is limited. Isobutyl alcohol is a medium boiling, slow evaporating, colorless liquid that is useful in organic synthesis, as a chemical intermediate and as a solvent in coating applications. Isobutyl alcohol is similar in properties to n-butyl alcohol and may be used as a supplement or replacement for it in many applications. 	<ul style="list-style-type: none"> Excellent reactivity as an intermediate Improves flow and gloss in cellulose lacquers and amino baking finishes Inert - Food use with limitations Inert - Nonfood use Latent solvent in cellulose lacquers Non-HAP Non-SARA Readily biodegradable Slow evaporation rate 	<ul style="list-style-type: none"> Additives in alkyd resin paint Polishes Cleaners Anticorrosion additives in engine oils Feedstock in the production of glycol ether Flotation acid Paints & coatings Printing inks Solvent for coatings Solubilizer in the textile industry

Properties	Typical Value	Unit	Test Based On
Acidity as Acetic acid	0.005 Max	wt %	ASTM D1613
Assay	99.5 Min	wt %	GC
Autoignition Temperature	410	°C	-
Boiling Point @ 760 mmHg	106 - 108	°C	-
Color Pt-Co	10 Max	-	ASTM D1209
Critical Pressure	41.2	atm	-
Critical Temperature	262.8	°C	-
Critical Volume	269	ml/g.mol	-
Distillation, DP	108.0 Max	°C	ASTM D1078
Distillation, IBP	106.0 Min	°C	ASTM D1078
Electrical Resistance	< 0.2	Megohms	-
Empirical Formula	C ₄ H ₁₀ O	-	-
Evaporation Rate (ether = 1)	20.2	-	-
(n-butyl acetate = 1)	0.6	-	-
Expansion Coefficient @ 20 °C	0.00096	Per °C	-
Expansive Limits in Air			
Lower	1.6	vol%	-
Upper	12.3	vol%	-
Flash Point	27	°C	-
Freezing Point	-108	°C	-
Hansen Solubility Parameters			
Hydrogen bonding	7.8	-	-
Nonpolar	7.4	-	-
Polar	2.8	-	-
Total	11.1	-	-
Heat of Combustion	-583.4	kcal/g.mol	-
Heat of Vaporization	9834	cal/g.mol	-
Liquid Heat Capacity @ 25 °C	42.92	cal/(g.mol)°C	-
Liquid Viscosity @ 20 °C	4	cP (mPa.s)	-
Maximum Incremental Reactivity (MIR)	2.24	-	-
Molecular Weight	74.12	g/mol	-

Properties	Typical Value	Unit	Test Based On
Nitrocellulose Solubility	Latent	-	-
Refractive Index @ 20°C	1.395 - 1.396	-	ASTM D1218
Solubility in water @ 20°C	85	g/L	-
Specific Gravity @ 20°C/20°C	0.803	-	ASTM D4052
Surface Tension @ 20 °C	22.8	Dynes/cm	-
Vapor Density (air = 1)	2.55	-	-
Vapor Pressure @ 20 °C	9.5	mbar	ASTM D4052
Water Content	0.1 Max	wt %	ASTM D1364
Wt/Vol @ 20 °C	0.80	kg/L	-

Notes

Typical properties: these are not to be construed as specifications.

For additional technical, sales and order assistance please contact our sales representative

©2020-2021. Union Petrochemical. The user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a Web site. Union Petrochemical does not guarantee the typical (or other non-specification) values. Typical values only represent the values one would expect if the properties were tested in our laboratories with our test methods on the specified date. Some product properties are not frequently measured, and accordingly typical values may not be based upon a statistically relevant number of tests. Analysis may be performed on representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no warranty against patent infringement, not any endorsement of any product or process, and we expressly disclaim any contrary implication.