

N-Butanol

CAS NO. 71-36-3

Product Description	Key Features	Application
<ul style="list-style-type: none"> N-Butanol is a medium-boiling liquid that is useful as a chemical intermediate and as a solvent for ambient dry and baking coatings. It is widely used as an etherification alcohol in the manufacture of amino resins which are often used as curing agents in baking and physical-drying finishes. It is also a very effective latent solvent for cellulosic lacquers and ambient-cured enamels, reducing formulation viscosity and providing excellent flow and leveling during film formation. 	<ul style="list-style-type: none"> Excellent reactivity as an intermediate Inert - Food use with limitations Inert - Nonfood use Latent solvent in cellulose lacquers Non-HAP Readily Biodegradable Slow evaporation rate 	<ul style="list-style-type: none"> Agriculture intermediates Architectural coatings Building materials Coil coatings Construction chemicals Furniture General industrial coatings Graphic arts Lubricants Organic synthesis Paints & coatings Process solvents Protective coatings Wood coatings

Properties	Typical Value	Unit	Test Based On
Acidity as Acetic acid	0.003 Max	wt %	-
Assay	99.5 Min	wt %	-
Autoignition Temperature	355	°C	-
Boiling Point @ 760 mmHg	116 - 119	°C	-
Chromaticity, Hazen	10 Max	-	-
Color Pt-Co	10 Max	-	-
Critical Pressure	43.7	atm	-
Critical Temperature	289.8	°C	-
Critical Volume	275	ml/g.mol	-
Electrical Resistance	< 0.2	Megohms	-
Empirical Formula	C ₄ H ₉ OH	-	-
Evaporation Rate (ether = 1)	24.2	-	-
(n-butyl acetate = 1)	0.5	-	-
Expansion Coefficient @ 20 °C	0.0009	Per °C	-
Expansive Limits in Air			
Lower	1.4	vol%	-
Upper	11.3	vol%	-
Flash Point			
Tag Closed Cup	36.0	°C	-
Freezing Point	-89	°C	-
Hansen Solubility Parameters			
Hydrogen bonding	7.7	-	-
Nonpolar	7.8	-	-
Polar	2.8	-	-
Total	11.3	-	-
Heat of Combustion	-587	kcal/g.mol	-
Heat of Vaporization	10330	cal/g.mol	-
Liquid Heat Capacity @ 25 °C	42.52	cal/(g.mol)°C	-
Liquid Viscosity @ 20 °C	3	cP (mPa.s)	-
Maximum Incremental Reactivity (MIR)	3.34	-	-
Molecular Weight	74.12	-	-
Nitrocellulose Solubility	Latent	-	-
Refractive Index @ 20°C	1.4	-	-

Properties	Typical Value	Unit	Test Based On
Solubility			
In water, @ 20 °C	7.9	wt %	
Water in, @ 20 °C	20.8	wt %	-
Specific Gravity @ 20°C/20°C	0.81	-	-
Sulphate chromotest	20 Max	-	-
Surface Tension @ 20 °C	24.6	Dynes/cm	-
Vapor Density (air = 1)	2.60	-	-
Vapor Pressure			
@ 20 °C	5.5	mmHg	
@ 55 °C	6.1	kPa	-
Water Content	0.10 Max	Wt %	-
Wt/Vol @ 20 °C	0.81	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

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