



Diisobutyl Carbinol (DIBC)

Product Data Sheet - typical properties and specifications

Diisobutyl Carbinol (DIBC) is a transparent, colorless liquid with a sweet odor. DIBC is a high-boiling, slow evaporating solvent that is very slightly soluble in water, but is miscible with most organic solvents. DIBC has low surface tension and is a non-HAP (Hazardous Air Pollutant) solvent. It is commonly used as an extraction solvent for multiple applications including acetic acid and ethanol from aqueous solution, ethyl acetone from methyl ethyl ketone, and many others. DIBC can also be used as a solvent for hydrogen peroxide manufacture, lacquers, shellac, printing inks, and alkyd resins.

Diisobutyl Carbinol is also referred to as DIBC; 2,6 dimethyl-4-heptanol; Nonyl Alcohol; and Dimethyl Heptanol

Health and safety information and safe handling suggestions are available through the appropriate Safety Data Sheet (SDS).

Specifications

Characteristic	Sales Specifications
Appearance	Colorless
Color, Pt-Co	15 Max
Purity, Wt. %	97.0 Min
Water, Wt. %	0.10 Max
Chlorides	10 Max
Sulfur	5 Max
Specific Gravity	0.81 Min - .814 Max
Diisobutyl Ketone	3 Max
Suspended Matter	Pass
DMH	30.5 Max
Total Isomers, DMH + DIBC	96Min

For more information on acetone or other chemicals in our product line, call us today at (713) 658-9000.

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Typical Physical Properties

Typical Properties	Typical Value
 Structural Formula	
Empirical Formula	C ₉ H ₂₀ O
Molecular Weight	144.26 g/mol <i>calculated</i>
Physical State	Liquid
Color	Transparent, Colorless
Odor	sweet odor
Explosive Limits (by volume in air)	0.8%-6.1% vol <i>Literature</i>
Flash Point	Closed cup 62°C (144°F) <i>ASTM D 56</i>
Autoignition Temperature	No Test Data Available
Boiling Point (760 mm)	178°C (352.4°F) <i>Literature</i>
Density at 20°C, 68°F	0.81-0.814 lb/US gal <i>Literature</i>
Melting Point	Not Applicable <i>Literature</i>
Vapor Density (Air = 1.0)	5.0 <i>Literature</i>
Vapor Pressure at 20°C	0.14 mmHg <i>Literature</i>
Viscosity Kinematic at 20°C, 68°F	No Data Available
Water Solubility at 20°C, 68°F at 1 atm	0.06% <i>Literature</i>

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