



Diisobutyl Ketone DIBK

Diisobutyl Ketone DIBK, 2,6-dimethylheptan-4-heptanone

Catalog Nr.	Q014																																																																						
Definition	DIBK is a slow evaporating, low density solvent that has good solvency for many synthetic resins including Nitrocellulose, rosin esthers, phenolics, hydrocarbons, alkyds, polyesters, and acrylics. It is useful as a retarder solvent to improve flow and minimize humidity blushing.																																																																						
CAS Number	108-83-8																																																																						
Application	Automotive OEM, coatings for Automotive plastics, Coalescing aid for Nitrocellulose lacquer emulsions Coalescing aid, Coatings for special purposes, Replacement for Exxate 600 blends, Roll-coating inks, viscosity modifier in poly-vinyl chloride organosols																																																																						
Technical Data	<table><tr><td>Molecular weight</td><td>142.33</td></tr><tr><td>Color (pt-Co)</td><td>20 max</td></tr><tr><td>Empirical Formula</td><td>C₉H₁₈O</td></tr><tr><td>Specific gravity</td><td>0.811</td></tr><tr><td>Wt/Vol @ 20 C</td><td>0.81 kg/l (6.76 lb/gal)</td></tr><tr><td>Solubility (in Water @ 20C)</td><td>0.05 wt %</td></tr><tr><td>Solubility (water In @ 20C)</td><td>0.7 wt %</td></tr><tr><td>Evaporation rate (n-butyl Acetate =1)</td><td>0.2</td></tr><tr><td>Evaporation rate (ether=1)</td><td>60.5</td></tr><tr><td>Dilution ratio (Toluene)</td><td>1.5</td></tr><tr><td>Dilution ratio (VMP Naphta)</td><td>0.8</td></tr><tr><td>Refractive Index @ 20C</td><td>1.415</td></tr><tr><td>Vapor density (air=1)</td><td>4.9</td></tr><tr><td>Vapor pressure @ 20C</td><td>1.4 mm Hg</td></tr><tr><td>Vapor pressure @ 55C</td><td>1.4 Kpa</td></tr><tr><td>Boiling point @ 760 mm Hg</td><td>163 C/ 325 F (Initial)</td></tr><tr><td>Boiling point @ 760 mm Hg</td><td>176 C/ 348 F (dry point)</td></tr><tr><td>Freezing point</td><td>-42C (-43F)</td></tr><tr><td>Flash point Tag closed cup</td><td>49 C (120F)</td></tr><tr><td>Autoignition temperature</td><td>396C (745F)</td></tr><tr><td>Azeotropes BP</td><td>97C (206.6F)</td></tr><tr><td>Azeotropes wt % in water</td><td>51.9 wt %</td></tr><tr><td>Hansen solubility parameters</td><td></td></tr><tr><td>Non polar</td><td>7.6</td></tr><tr><td>Polar</td><td>1.8</td></tr><tr><td>Hydrogen bonding</td><td>2</td></tr><tr><td>Total</td><td>8</td></tr><tr><td>Surface Tension @ 20C</td><td>24.6 dynes/cm</td></tr><tr><td>TLV PPM 1998</td><td>25</td></tr><tr><td>Blush resistance @ 26.7C (80F)</td><td>95% RH</td></tr><tr><td>Electrical resistance</td><td>0.4 megaohms</td></tr><tr><td>Critical temperature</td><td>341.8 C</td></tr><tr><td>Critical pressure</td><td>24.5 ATM</td></tr><tr><td>Critical volume</td><td>522 ml/g-mol</td></tr><tr><td>Expansion coefficient, per C @ 20C</td><td>0.00102</td></tr></table>	Molecular weight	142.33	Color (pt-Co)	20 max	Empirical Formula	C ₉ H ₁₈ O	Specific gravity	0.811	Wt/Vol @ 20 C	0.81 kg/l (6.76 lb/gal)	Solubility (in Water @ 20C)	0.05 wt %	Solubility (water In @ 20C)	0.7 wt %	Evaporation rate (n-butyl Acetate =1)	0.2	Evaporation rate (ether=1)	60.5	Dilution ratio (Toluene)	1.5	Dilution ratio (VMP Naphta)	0.8	Refractive Index @ 20C	1.415	Vapor density (air=1)	4.9	Vapor pressure @ 20C	1.4 mm Hg	Vapor pressure @ 55C	1.4 Kpa	Boiling point @ 760 mm Hg	163 C/ 325 F (Initial)	Boiling point @ 760 mm Hg	176 C/ 348 F (dry point)	Freezing point	-42C (-43F)	Flash point Tag closed cup	49 C (120F)	Autoignition temperature	396C (745F)	Azeotropes BP	97C (206.6F)	Azeotropes wt % in water	51.9 wt %	Hansen solubility parameters		Non polar	7.6	Polar	1.8	Hydrogen bonding	2	Total	8	Surface Tension @ 20C	24.6 dynes/cm	TLV PPM 1998	25	Blush resistance @ 26.7C (80F)	95% RH	Electrical resistance	0.4 megaohms	Critical temperature	341.8 C	Critical pressure	24.5 ATM	Critical volume	522 ml/g-mol	Expansion coefficient, per C @ 20C	0.00102
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