

Technical Data Sheet

Eastman™ DIBK

Applications

- Auto oem
- Auto refinish
- Commerical printing inks
- General industrial coatings
- Paints & coatings
- Process solvents

Key Attributes

- Good solvent activity
- High blush resistance
- Inert - Nonfood use
- Low density
- Low surface tension
- Low water solubility
- Non-HAP
- Non-SARA
- REACH compliant
- Readily biodegradable
- Slow evaporation rate

Product Description

Eastman™ DIBK (Diisobutyl Ketone) is a slow evaporating, low density solvent that has good activity for many synthetic resins including nitrocellulose, rosin esters, phenolics, hydrocarbons, alkyds, polyesters, and acrylics. It is useful as a retarder solvent to improve flow and minimize humidity blushing. The low density and low surface tension of DIBK enables formulators to develop high-solids coatings with low VOC content and excellent flow and leveling properties.

The chemical substances for this product are listed as Inert Ingredients Permitted for Use in Nonfood Use Pesticide Products under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). For details on specific permissions, [click here](#).

Typical Properties

Property	Typical Value, Units
General	
Acidity	
as Acetic Acid	0.02 wt % max.
Assay	90 % min (mixture)
Autoignition Temperature	396 °C (745 °F)
Azeotropes	
BP	97 °C (206.6 °F)
Wt % Water	51.9 wt %
Blush Resistance	
@ 80°F (26.7°C)	95 % RH
Boiling Point @ 760 mm Hg	
Dry Point	176 °C (348 °F)
Initial	163 °C (325 °F)
Color	
Pt-Co	20 max.
Critical Pressure	24.5 ATM
Critical Temperature	341.8 °C
Critical Volume	522 ml/g·mol
Dilution Ratio	
Toluene	1.5

VMP Naphtha	0.8
Electrical Resistance	0.4 Megohms
Empirical Formula	C ₉ H ₁₈ O
Evaporation Rate (ether = 1)	60.5
(n-butyl acetate = 1)	0.2
Expansion Coefficient, per °C @ 20°C	0.00102
Flash Point Tag Closed Cup	49 °C (120 °F)
Freezing Point	-42 °C (-43 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	2
Nonpolar	7.6
Polar	1.8
Total	8
Heat of Combustion	-1269 kcal/g·mol
Heat of Vaporization	9458 cal/g·mol
Liquid Heat Capacity @ 49°C	70.79 cal/(g·mol)(°C)
Liquid Viscosity @ 20°C	1 cP (mPa·s)
Molecular Weight	142.23
Nitrocellulose Solubility	Active
Refractive Index @ 20°C	1.415
Specific Gravity @ 20°C/20°C	0.811
Solubility in Water, @ 20°C	0.05 wt %
Water in, @ 20°C	0.7 wt %
Surface Tension @ 20°C	24.6 dynes/cm
TLV PPM 1998	25
Vapor Density (air = 1)	4.9
Vapor Pressure @ 20°C	1.4 mm Hg
@ 55°C	1.4 kPa
Wt/Vol @ 20°C	0.81 kg/L (6.76 lb/gal)

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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