



# Technical Data Sheet Eastman™ MIAK

## **Applications**

- Auto oem
- Auto refinish
- General industrial coatings
- Paints & coatings
- Process solvents

#### **Key Attributes**

- Excellent solvent activity
- High dilution ratio
- · Inert Nonfood use
- Low density
- Low surface tension
- Non-HAP
- Non-SARA
- REACH compliant
- · Readily biodegradable
- Slow evaporation rate
- Urethane grade

### **Product Description**

Eastman™ MIAK (Methyl Isoamyl Ketone) has high solvent activity, slow evaporation rate, low density, low surface tension, and a high boiling point. These properties make MIAK a very good solvent for high-solids coatings. Because regulations limit the weight of solvent per gallon of coating, formulators favor the use of low-density solvents that help reduce the VOC content of a coating. MIAK is lower in density than ester, aromatic hydrocarbons, and glycol ether solvents with similar evaporation rates. The low density and high activity of MIAK are significant advantages when formulating low-viscosity, high-solids coatings. In addition, MIAK is useful as a polymerization solvent for high solids acrylic resins.

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	0.01 wt % max.	
Assay	98.5 wt % min.	_
Autoignition Temperature	424 °C (795 °F)	
Azeotropes		_
BP	94.7 °C (202.5 °F)	
Wt % Water	44 wt %	
Blush Resistance		
@ 80°F (26.7°C)	89 % RH	
Boiling Point @ 760 mm Hg		_
Dry Point	148 °C (298 °F)	
Initial	141 °C (286 °F)	
Color		
Pt-Co	10 max.	
Critical Pressure	29.3 ATM	
Critical Temperature	327.8 °C	
Critical Volume	421 ml/g·mol	

Dilution Ratio	
Toluene	4.1
VMP Naphtha	1.2
Electrical Resistance	0.6 Megohms
Empirical Formula	C <sub>7</sub> H <sub>14</sub> O
Evaporation Rate	
(ether = 1)	24.2
(n-butyl acetate = 1)	0.5
Expansion Coefficient, per °C	
@ 20°C	0.00107
Flash Point	
Tag Closed Cup	36 °C (96 °F)
Freezing Point	-74 °C (-101 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	2
Nonpolar	7.6
Polar	2.8
Total	8.3
Heat of Combustion	-979.9 kcal/g·mol
Heat of Vaporization	9186 cal/g·mol
Liquid Heat Capacity	
@ 25°C	59.64 cal/(g*mol)(°C)
Liquid Viscosity	
@ 25°C	0.7 cP (mPa·s)
Molecular Weight	114.19
Nitrocellulose Solubility	Active
Refractive Index	
@ 20°C	1.4078
Solubility	
in Water, @ 20°C	0.5 wt %
Water in, @ 20°C	1.2 wt %
Specific Gravity	
@ 20°C/20°C	0.813
Surface Tension	
@ 20°C	25.8 dynes/cm
TLV PPM 1998	50
Vapor Density	
(air = 1)	3.9
Vapor Pressure	
@ 20°C	4.5 mm Hg
@ 55°C	3.7 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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