EASTMAN

Technical Data Sheet
Eastman™ Propyl Acetate

Applications

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

Key Attributes

- Good solvent activity
- High electrical resistance
- Inert - Nonfood use
- Low MIR value
- Low surface tension
- Low water solubility
- Medium evaporation rate
- Mild odor
- Non-HAP
- Non-SARA
- Predicted to be readily biodegradable*
- REACH compliant
- Urethane grade

Product Description

Eastman™ Propyl Acetate is a colorless liquid with a mild, fruity odor. It is an active solvent for nitrocellulose, cellulose acetate butyrate, polyester, alkyd, and acrylic resins. Eastman™ Propyl Acetate has a medium evaporation rate and is a non-HAP solvent. It promotes flow and leveling in a variety of formulations.

*Modeled using The Estimation Programs Interface (EPI) Suite™ (EPA), BIOWIN v4.10 module

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	Test Method	Typical Value, Units
General		
Acidity as Acetic Acid		 0.01 wt % max.
Assay		99.5 wt % min.
Autoignition Temperature	D 2155	457 °C (855 °F)
Azeotropes BP Wt % Water		 82.4 °C (180.3 °F) 14 wt %
Blush Resistance @ 80°F (26.7°C)		 65 % RH
Boiling Point @ 760 mm Hg		 99-103 °C (210-217 °F)
Color Pt-Co		 5 max.
Critical Pressure		33.2 ATM
Critical Temperature		276.5 °C
Critical Volume		345 ml/g·mol
Dilution Ratio		

Toluene	3.2
VMP Naphtha	1.5
Electrical Resistance	>20 Megohms
Empirical Formula	$C_5H_{10}O_2$
Evaporation Rate	
(ether = 1)	5.3
(n-butyl acetate = 1)	2.3
Expansion Coefficient, per °C	
@ 20°C	0.00126
Fire Point	21 °C (70 °F)
Flammability Limits in Air, % by Volume	
Lower @ 38°C	1.7 Vol %
Upper @ 93°C	8 Vol %
Flash Point	
Tag Closed Cup	13 °C (55 °F)
Tag Open Cup	14 °C (58 °F)
Freezing Point	-92 °C (-134 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	3.7
Nonpolar	7.5
Polar	2.1
Total	8.6
Heat of Combustion	-638.6 kcal/g·mol
Heat of Vaporization	8151 cal/g·mol
Liquid Heat Capacity	
@ 25°C	47.31 cal/(g*mol)(°C)
Liquid Viscosity	
@ 20°C	0.6 cP (mPa·s)
Maximum Incremental Reactivity (MIR)	0.87
Molecular Weight	102.14
Nitrocellulose Solubility	Active
Refractive Index	
@ 20°C	1.38
Solubility	
in Water, @ 20°C	2.3 wt %
Water in, @ 20°C	2.6 wt %
Specific Gravity	
@ 20°C/20°C	0.889
Surface Tension	
@ 20°C	24.3 dynes/cm
TLV PPM 1998	200
Vapor Density	
(air = 1)	3.5
Vapor Pressure	
@ 20°C	23 mm Hg
@ 55°C	18.9 kPa
Wt/Vol	
@ 20°C	0.89 kg/L (7.39 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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