

# Technical Data Sheet

## Eastman EastaPure™ EP Solvent

### Applications

- Electronic chemical cleaners
- Electronic chemicals
- Lcd displays
- Photoresist solvents
- Photoresist strippers
- Process solvents

### Key Attributes

- Excellent resin solubility
- High Purity/Low Trace Metals
- High assay
- Inert - Nonfood use
- Viscosity control

### Product Description

Eastman EastaPure™ EP solvent is a high flash point, water miscible, colorless solvent providing slow evaporation rates and good viscosity control for a broad range of polymers, resins and coatings. It is completely water miscible over a wide range of temperatures making it a very good coupling solvent for resin/water systems.

Miscible with most organic solvents, EastaPure™ EP can be blended to provide customized formulation properties necessary for specialty applications.

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
<b>General</b>	
Assay	99.5 wt % min.
Autoignition Temperature	235 °C (455 °F)
Azeotropes	
BP	98.5 °C (209.3 °F)
Wt % Water	73 wt %
Boiling Point @ 760 mm Hg	
Dry Point	153 °C (308 °F)
Initial	149.5 °C (301 °F)
Color	
Pt-Co	10 max.
Critical Pressure	36.2 ATM
Critical Temperature	308.8 °C
Critical Volume	347 ml/g·mol
Dilution Ratio	
Toluene	4
VMP Naphtha	2
Electrical Resistance	0.1 Megohms
Evaporation Rate	
(ether = 1)	60.5
(n-butyl acetate = 1)	0.2
Expansion Coefficient, per °C	
@ 20°C	0.0009

Fire Point	56 °C (133 °F)
Flash Point	
Tag Closed Cup	49 °C (120 °F)
Freezing Point	<-90 °C (<-130 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	6.6
Nonpolar	7.9
Polar	4.2
Total	11.1
Heat of Combustion	-704.8 kcal/g·mol
Heat of Vaporization	11060 cal/g·mol
Liquid Heat Capacity	
@ 25°C	44.51 cal/(g·mol)(°C)
Liquid Viscosity	
@ 20°C	2.4 cP (mPa·s)
Maximum Incremental Reactivity (MIR)	0.07
Nitrocellulose Solubility	Active
Refractive Index	
@ 20°C	1.414
Solubility	
in Water, @ 20°C	Complete
Water in, @ 20°C	Complete
Specific Gravity	
@ 20°C/20°C	0.913
Surface Tension	
@ 20°C	27.9 dynes/cm
Upper Limits for Trace Metals	
Aluminium (Al)	100 ppb
Barium (Ba)	100 ppb
Cadmium (Cd)	100 ppb
Calcium (Ca)	100 ppb
Chromium (Cr)	100 ppb
Cobalt (Co)	100 ppb
Copper (Cu)	100 ppb
Gallium (Ga)	100 ppb
Germanium (Ge)	100 ppb
Iron (Fe)	100 ppb
Lead (Pb)	100 ppb
Lithium (Li)	100 ppb
Magnesium (Mg)	100 ppb
Manganese (Mn)	100 ppb
Nickel (Ni)	100 ppb
Potassium (K)	100 ppb
Silver (Ag)	100 ppb
Sodium (Na)	100 ppb
Strontium (Sr)	100 ppb
Titanium (Ti)	100 ppb
Zinc (Zn)	100 ppb
Vapor Density	
(air = 1)	3.6
Vapor Pressure	
@ 20°C	1.3 mm Hg
@ 55°C	2.2 kPa
Wt/Vol	
@ 20°C	0.91 kg/L (7.59 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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