EASTMAN

Technical Data Sheet

Eastman™ n-Propyl Propionate

Applications

- Architectural coatings
- Auto oem
- Auto plastics
- Auto refinish
- Automotive
- Commerical printing inks
- General industrial coatings
- Marine
- Metal coatings
- Process solvents
- Wood coatings

Key Attributes

- Good solvent activity
- High electrical resistance
- 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™ n-Propyl Propionate is a non-HAP, medium evaporating, urethane grade solvent that provides good activity for most coating resins. Its good activity yields efficient resin viscosity reduction that enables the development of lower VOC coatings. Eastman n-propyl propionate linear structure allows fast diffusion through coatings and printing inks films. It has lower odor than solvents of similar volatility.

Many resins are letdown in a solvent thinning tank to make handling, storing, and shipping easier. Eastman™ n-Propyl Propionate is useful as a letdown solvent because of its low volatility, good solvent activity, and urethane grade quality. Since this product is not a HAP, it is a good choice when formulating solvent blend replacements for toluene and xylene in coating applications such as high-solids thermoset enamels. Its high electrical resistivity is beneficial in optimizing transfer efficiency in coatings applied via electrostatic spray equipment.

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

Typical Properties

Property	Typical Value, Units
General	
Assay	99.5 wt % min.
Autoignition Temperature	434.9 °C
Boiling Point @ 760 mm Hg	118.8-124 °C (245.8-255.2 °F)
Color Pt-Co	10 max.
Dilution Ratio Toluene VMP Naphtha	N/A
Electrical Resistance	>20
Empirical Formula	$C_6H_{12}O_2$
Evaporation Rate (ether = 1) (n-butyl acetate = 1)	 1.2 1.2
Flash Point Setaflash Closed Cup	22 °C (71.6 °F)

Form	Liquid
Freezing Point	-76 °C (-104.8 °F)
Hansen Solubility Parameters	
Total	8.6
Molecular Weight	116.18
Odor	Ester
Refractive Index	
@ 20°C	1.392
Solubility	
in Water, @ 20°C	
Water in, @ 20°C	
Specific Gravity	
@ 20°C/20°C	0.88
Surface Tension	
@ 20°C	24.7 dynes/cm
Vapor Density	Not Available
Vapor Pressure	
@ 20°C	10 mm Hg
@ 55°C	8.6 kPa
Viscosity	
@ 25°C, 8% CAB-381-0.5	23 cP·s
@ 25°C, 8% RS $^{1}/_{2}$-s NC	31 cP·s
Wt/Vol	
@ 20°C	0.88 kg/L (7.34 lb/gal)

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