ΕΛSTΜΛΝ

Technical Data Sheet Eastman[™] n-Propyl Propionate



- Architectural coatings
 - Auto oem
 - Auto plastics
 - 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	N/A
VMP Naphtha	
Electrical Resistance	>20
Empirical Formula	C ₆ H ₁₂ O ₂
Evaporation Rate	
(ether = 1)	1.2
(n-butyl acetate = 1)	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)

Eastman and its marketing affiliates shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

2/28/2018 11:35:39 AM

© 2019 Eastman Chemical Company or its subsidiaries. All rights reserved. As used herein, ® denotes registered trademark status in the U.S. only.