

Technical Data Sheet

Eastman™ n-Propanol

Applications

- Agriculture intermediates
- Architectural coatings
- Auto oem
- Auto plastics
- Auto refinish
- Commercial printing inks
- Consumer printing inks
- Flexographic printing inks
- General industrial coatings
- Graphic arts
- Gravure printing inks
- Marine
- Packaging components non food contact
- Packaging inks non food contact
- Paints & coatings
- Pharmaceutical chemicals
- Process solvents
- Protective coatings
- Wood coatings

Key Attributes

- Complete water miscibility
- Excellent reactivity as an intermediate
- Inert - Food use with limitations
- Inert - Nonfood use
- Inherently biodegradable
- Medium evaporation rate
- Mild odor
- Non-HAP
- Non-SARA
- REACH compliant

Product Description

Eastman™ n-Propanol (n-propyl alcohol), a three-carbon straight chain oxo alcohol, is a medium boiling, colorless liquid that is widely used in flexographic and other printing ink applications. It has a very mild odor, similar to that of ethanol and is completely soluble in water. It is useful in organic synthesis, as a chemical intermediate, and as a coating solvent. Eastman™ n-Propanol helps balance the drying and flow characteristics in a variety of surface coating applications.

The chemical substances for this product are listed as Inert Ingredients Permitted for Use in Nonfood Use Pesticide Products, and in Food Use Pesticide Products with limitations, 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	0.003 wt % max.
Assay	99.8 wt % min.
Autoignition Temperature	413 °C (775 °F)
Azeotropes	
BP	87 °C (188.6 °F)
Wt % Water	28.3 wt %
Boiling Point @ 760 mm Hg	96-98 °C (205-208 °F)
Color Pt-Co	5 max.
Critical Pressure	51.1 ATM

Critical Temperature	263.5 °C
Critical Volume	219 ml/g·mol
Electrical Resistance	<0.2 Megohms
Empirical Formula	C ₃ H ₈ O
Evaporation Rate (ether = 1) (n-butyl acetate = 1)	12.1 1.0
Expansion Coefficient, per °C @ 20°C	0.00096
Flash Point Tag Closed Cup	23 °C (74 °F)
Freezing Point	-127 °C (-197 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	8.5
Nonpolar	7.8
Polar	3.3
Total	12
Heat of Combustion	-440.7 kcal/g·mol
Heat of Vaporization	9954 cal/g·mol
Liquid Heat Capacity @ 25°C	34.53 cal/(g·mol)(°C)
Liquid Viscosity @ 20°C	2 cP (mPa·s)
Maximum Incremental Reactivity (MIR)	2.74
Molecular Weight	60.1
Nitrocellulose Solubility	Latent
Refractive Index @ 20°C	1.39
Solubility	
in Water, @ 20°C	Complete
Water in, @ 20°C	Complete
Specific Gravity @ 20°C/20°C	0.8
Surface Tension @ 20°C	23.8 dynes/cm
Vapor Density (air = 1)	2.1
Vapor Pressure @ 20°C @ 55°C	14.5 mm Hg 15.7 kPa
TLV PPM 1998	200
Wt/Vol @ 20°C	0.80 kg/L (6.71 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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