



Product Data Sheet

Eastman Texanol™ Ester Alcohol

CAS No. 25265-77-4

Key Attributes

- Ease of addition to latex paints
- Efficient coalescent
- Excellent hydrolytic stability
- Low flammability rating
- Low freezing point
- Low water solubility
- LVP-VOC
- Non-HAP
- Non-SARA
- Not classified as a VOC per China State Environmental Protection Agency
- Not classified as a VOC per European Union Directive 2004/42/EC
- Not classified as a VOC per European Union Solvent Emissions Directive
- REACH compliant
- Readily biodegradable
- Recognized by China with "Green Label II" certificate (low toxicity, non-VOC and environmental friendly biodegradable product)

Product Description

Eastman Texanol™ ester alcohol is the premier coalescent for latex paints. It performs well in all types of latex paints, in a variety of weather conditions, and over substrates with different levels of porosity. Eastman Texanol™ ester alcohol provides the highest level of film integrity at low levels of coalescent, enhancing the performance properties of the paint including low temperature coalescence, touch-up, scrub resistance, washability, color development, thermal flexibility, and resistance to mudcracking. Eastman Texanol™; ester alcohol also enhances thickening efficiency when used with associative thickeners.

Eastman Texanol™ ester alcohol also works well in a variety of other applications. It is an ideal choice as a retarder solvent for use in coil coatings and high-bake enamels. Its unique balance of properties also makes it useful for a variety of chemical specialty applications such as ore flotation / frothing, oil-drilling muds, wood preservative carriers, and floor polishes.

With a boiling point of 254°C, (vapor pressure 0.01 kPa @ 20°C), Eastman Texanol ester alcohol is not classified as a VOC according to European Union Decopaint Directive 2004/42/EC (commonly referred to as the Decopaint Directive); European Union Solvent Emissions Directive); and the China State Environmental Protection agency. Due to its non-VOC status, low toxicity, and biodegradability, Eastman Texanol™ ester alcohol has been awarded Green Label Type II certificate in China by the China Environmental United Certification Co. Ltd. (CEC), a wholly-owned subsidiary of the State Environmental Protection Administration of China (SEPA).

Typical Properties

Property	Typical Value, Units
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Acidity as Acetic Acid	0.05 wt % max.
Assay	98.5 wt % min.
Autoignition Temperature	393°C (739°F)
Boiling Point @ 760 mm Hg	254°C (489°F)
Color Pt-Co	10 max.
Critical Pressure	19.9 ATM
Critical Temperature	391.9°C
Critical Volume	718.6 ml/g·mol
Electrical Resistance	>20 Megohms
Empirical Formula	C ₁₂ H ₂₄ O ₃
Evaporation Rate	
(n-butyl acetate = 1)	0.002
(ether = 1)	6051
Expansion Coefficient, per °C @ 20°C	0.001
Flash Point Cleveland Open Cup	120°C (248°F)
Freezing Point	-50°C (-58°F)
Hansen Solubility Parameters	
Nonpolar	7.4
Polar	3
Hydrogen Bonding	4.8
Total	9.3
Heat of Combustion	-1607.7 kcal/g·mol
Heat of Vaporization	15196 cal/g·mol
Liquid Heat Capacity @ 25°C	110.74 cal/(g·mol)(°C)
Liquid Viscosity @ 20°C	13.5 cP (mPa·s)
Molecular Weight	216.3
Nitrocellulose Solubility	Active
Refractive Index @ 20°C	1.4423
Solubility	
in Water, @ 20°C	0.1%
Water in, @ 20°C	3.0%
Specific Gravity @ 20°C/20°C	0.95
Surface Tension @ 20°C	28.9 dynes/cm
Vapor Density (air = 1)	7.5
Vapor Pressure	
@ 20°C	0.0013 KPa (0.01 mm Hg)
@ 25°C	0.00173 KPa
@ 55°C	0.033 KPa
Wt/Vol @ 20°C	0.95 kg/L (7.9 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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