# Product Data Sheet

## Eastman Texanol™ Ester Alcohol

## CAS No. 25265-77-4

## Application/Uses

- Coatings - Architectural
- Coatings - Automotive OEM (electrodeposition primers)
- Coatings - Can and Coil
- Coatings - Floor Polishes
- Coatings - General Industrial
- Coatings - Industrial Maintenance and Marine
- Coatings - Industrial Wood
- Coatings - Transportation
- Graphic Arts - Printing Inks (Lithographic and Letterpress oil-based inks)
- Oil Field Chemical - Drilling Muds/Frothing Agent/Ore Flotation
- Reactive Intermediate - Ester Derivatives for Plasticizers

## 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 |
|---|---|
| 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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