



# ATA KİMYA

## İNŞAAT SANAYİ ve TİC. LTD. ŞTİ.

### TEXANOL

TEXANOL Ester Alcohol (2,2,4-Trimethyl-1,3-pentanediol Monoisobutyrate)  
CAS No. 25265-77-4

#### Application/Uses

- \_ Architectural and industrial maintenance coatings
- \_ Chemical intermediate for synthesis of ester derivatives for plasticizers, etc.
- \_ Electrodeposition primers and coatings
- \_ Floor polishes
- \_ High-bake enamels and other solventborne coatings
- \_ Lithographic and letterpress oil-based inks
- \_ Recovery solvent in drilling muds and ore flotation processes
- \_ Solvent for nail polish
- \_ Solvents for cosmetics and personal care
- \_ Wood preservatives

#### Key Attributes

- \_ Ease of use
- \_ Efficient coalescent
- \_ Excellent hydrolytic stability
- \_ Low flammability rating
- \_ Low freezing point
- \_ Low water solubility
- \_ Non-HAP
- \_ Non-SARA
- \_ Not classified as a VOC per Australian Paint Approval Scheme, D181
- \_ 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

#### Product Description

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. Texanol 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. Texanol also enhances thickening efficiency when used with associative thickeners.

Texanol 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. Texanol offers a good balance of performance properties for ink applications requiring good open. The unique balance of properties in Texanol 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.

Texanol can also be used as a solvent in nail polish. The INCI

(cosmetic ingredient) name for Texanol Ester Alcohol is Trimethyl Hydroxypentyl Isobutyrate. Due to its non-VOC status, low toxicity, and biodegradability, 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).

Texanol is one of the Eastman Coatings Film Technologies portfolio of products and one of the many Eastman solvent replacements for ExxonMobil's discontinued Exxate solvents.

### Typical Properties

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

### 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. 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.