



TEXANOL Ester Alcohol (2,2,4-Trimethyl-1,3-pentanediol Monoisobutyrate)

TEXANOL Ester Alcohol is a slow evaporating, water-insoluble coalescing aid for latex paints. It provides good performance characteristics, such as scrub resistance, color development, and package stability in paints. It is an excellent coalescing aid for emulsion polymers and has excellent hydrolytic stability, allowing it to be used with a wide variety of latex emulsions including high pH acrylics. When added to an emulsion paint, **TEXANOL** is absorbed by the emulsions polymeric particles, softening them and causing complete fusion when the paint film dries. Since **TEXANOL** is insoluble in water and therefore not in the water phase, applying the paint over a porous substrate does not result in reduced coalescing efficiency because **TEXANOL** is not absorbed along with the water.

List of Applications

- Chemical intermediate
- Coalescing aid
- Coatings
- Nail care
- Plasticizers
- Printing inks
- Solvents
- Solvents for cosmetics and personal care

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

Property^a	Typical Value, Units^c
Molecular Weight	216.3
Empirical Formula	
Color Pt-Co	10 max.
Specific Gravity @ 20°C/20°C Wt/Vol @ 20°C	0.95 kg/L (7.9 lb/gal)
Solubility	
in Water, @ 20°C	Insoluble
Water in, @ 20°C	0.9 wt %
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	
@ 25°C	0.013 mm Hg 1.73 Pa
@ 20°C	0.01 mm Hg 1.33 Pa
@ 55°C	3.3 KPa

Boiling Point @ 760 mm Hg	255-260.5°C (491-501°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/g·mol
Heat of Vaporization	15196 cal/g·mol
Heat of Combustion	-1607.7 kcal/g·mol
Liquid Heat Capacity @ 25°C	110.74 cal/(g·mol)(°C)
Liquid Viscosity @ 20°C	13.5 cP (mPa·s)
Nitrocellulose Solubility	Active

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^cUnits are in SI or US customary units.

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.