

Technical Data Sheet

Eastman™ DE Acetate

Applications

- Auto oem
- Auto refinish
- Commerical printing inks
- General industrial coatings
- Paints & coatings

Key Attributes

- Efficient coalescent
- Excellent solvent activity
- High blush resistance
- High electrical resistance
- LVP-VOC
- Predicted to be readily biodegradable*
- Slow evaporation rate
- Urethane grade

Product Description

Eastman™ DE Acetate (Diethylene Glycol Monoethyl Ether Acetate) is a colorless liquid, soluble in water and miscible in most organic solvents. It is used primarily as a coalescing aid in latex paints and as a solvent in printing inks. It is supplied as a urethane grade solvent.

*Modeled using [The Estimation Programs Interface \(EPI\) Suite™ \(EPA\)](#), BIOWIN v4.10 module

Typical Properties

Property	Test Method	Typical Value, Units
General		
Acidity as Acetic Acid		0.02 wt % max.
Assay		99.0 wt % min.
Autoignition Temperature	E 659	266 °C (511 °F)
Azeotropes BP Wt % Water		99.2 °C (210.6 °F) 92 wt %
Blush Resistance @ 80°F (26.7°C)		92 % RH
Boiling Point @ 760 mm Hg Dry Point Initial		221 °C (430 °F) 214 °C (417 °F)
Color Pt-Co		10 max.
Critical Pressure		23.9 ATM
Critical Temperature		386.8 °C
Critical Volume		565 ml/g·mol
Dilution Ratio Toluene VMP Naphtha		2.2 0.6
Electrical Resistance		3 Megohms
Empirical Formula		C ₈ H ₁₆ O ₄
Evaporation Rate (ether = 1)		1512.7

(n-butyl acetate = 1)	0.008
Expansion Coefficient, per °C @ 20°C	0.00106
Explosive Limits in Air Lower @ 135°C Upper @ 185°C	1 Vol % 19.4 Vol %
Flash Point Setaflash Closed Cup	96 °C (205 °F)
Freezing Point	-25 °C (-13 °F)
Hansen Solubility Parameters Hydrogen Bonding Nonpolar Polar Total	4.5 7.9 2.5 9.4
Heat of Combustion	-1013 kcal/g·mol
Heat of Vaporization	11330 cal/g·mol
Liquid Heat Capacity @ 25°C	82.1 cal/(g·mol)(°C)
Liquid Viscosity @ 20°C	2.8 cP (mPa·s)
Molecular Weight	176.21
Nitrocellulose Solubility	Active
Refractive Index @ 20°C	1.42
Specific Gravity @ 20°C/20°C	1.012
Solubility in Water, @ 20°C Water in, @ 20°C	Complete Complete
Surface Tension @ 25°C	31.7 dynes/cm
Vapor Density (air = 1)	6.1
Vapor Pressure @ 20°C @ 55°C	0.05 mm Hg 0.16 kPa
Water	0.1 wt % max.
Wt/Vol @ 20°C	1.01 kg/L (8.42 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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