

Technical Data Sheet

Eastman™ DB Acetate

Applications

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

Key Attributes

- Efficient coalescent
- Excellent solvent activity
- High blush resistance
- High electrical resistance
- LVP-VOC
- Readily biodegradable
- Slow evaporation rate

Product Description

Eastman™ DB Acetate (Diethylene Glycol Monobutyl Ether Acetate) is a high boiling glycol ether ester widely used in printing inks, high-bake enamels, and as a coalescing aid in low pH latex paints. Eastman™ DB Acetate is especially useful in screen inks and as a retarder solvent in coil coatings. It has application as a selective solvent in the separation of alcohols and ketones by distillation.

Typical Properties

Property	Test Method	Typical Value, Units
General		
Acidity as Acetic Acid		0.03 wt % max.
Assay		99.25 wt % min.
Autoignition Temperature	E 659	249 °C (480 °F)
Azeotropes		
BP		99.8 °C (211.6 °F)
Wt % Water		92 wt %
Blush Resistance @ 80°F (26.7°C)		96 % RH
Boiling Point @ 760 mm Hg		
Dry Point		250 °C (482 °F)
Initial		235 °C (455 °F)
Color		
Pt-Co		15 max.
Critical Pressure		20.3 ATM
Critical Temperature		407.6 °C
Critical Volume		676.3 ml/g·mol
Dilution Ratio		
Toluene		1.8
VMP Naphtha		0.9
Electrical Resistance		>20 Megohms
Empirical Formula		C ₁₀ H ₂₀ O ₄
Evaporation Rate		
(ether = 1)		6051
(n-butyl acetate = 1)		0.002
Expansion Coefficient, per °C @ 20°C		0.001
Fire Point		128 °C (262 °F)

Flammability Limits in Air, % by Volume	
Lower @ 135°C	0.8 Vol %
Upper @ 203°C	10.7 Vol %
Flash Point	
Cleveland Open Cup	105 °C (221 °F)
Tag Closed Cup	105 °C (221 °F)
Freezing Point	-32 °C (-26 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	4
Nonpolar	7.8
Polar	2
Total	9
Heat of Combustion	-1306 kcal/g·mol
Heat of Vaporization	14020 cal/g·mol
Liquid Heat Capacity	
@ 57°C	68.12 cal/(g·mol)(°C)
Liquid Viscosity	
@ 25°C	3.2 cP (mPa·s)
Molecular Weight	204.27
Nitrocellulose Solubility	Active
Refractive Index	
@ 20°C	1.43
Specific Gravity	
@ 20°C/20°C	0.98
Solubility	
in Water, @ 20°C	6.5 wt %
Water in, @ 20°C	3.7 wt %
Surface Tension	
@ 20°C	30 dynes/cm
Vapor Density	
(air = 1)	7
Vapor Pressure	
@ 20°C	0.04 mm Hg
@ 55°C	0.02 kPa
Wt/Vol	
@ 20°C	0.98 kg/L (8.16 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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