

Technical Data Sheet

Eastman™ Ethylene Glycol Diacetate

Applications

- Auto oem
- Auto refinish
- Graphic arts
- Paints & coatings

Key Attributes

- High blush resistance
- Low MIR value
- Non-HAP
- Non-SARA
- Predicted to be readily biodegradable*
- Slow evaporation rate

Product Description

Eastman™ Ethylene Glycol Diacetate (EGDA) is a colorless, low odor, very slow-evaporating solvent that gives good flow-out to baking lacquers and enamels. Its major uses are in thermoplastic acrylic coatings as a reflow solvent and in foundry core-binding applications.

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

Typical Properties

Property	Typical Value, Units
General	
Acidity as Acetic Acid	0.10 wt % max.
Assay	98.0 wt % min.
Autoignition Temperature	482 °C (900 °F)
Azeotropes	
BP	99.7 °C (211.5 °F)
Wt % Water	84.6 wt %
Blush Resistance @ 80°F (26.7°C)	96 % RH
Boiling Point @ 760 mm Hg	187-193 °C (369-379 °F)
Color	
Pt-Co	15 max.
Critical Pressure	30.5 ATM
Critical Temperature	379.8 °C
Critical Volume	416 ml/g·mol
Dilution Ratio	
Toluene	1.4
Electrical Resistance	5 Megohms
Empirical Formula	C ₆ H ₁₀ O ₄
Evaporation Rate (ether = 1) (n-butyl acetate = 1)	605.1 0.02
Expansion Coefficient, per °C @ 20°C	0.00095
Flash Point	88 °C (191 °F)

Tag Closed Cup	
Freezing Point	-42 °C (-44 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	4.8
Nonpolar	7.9
Polar	2.3
Total	9.5
Heat of Combustion	-647.4 kcal/g·mol
Heat of Vaporization	10840 cal/g·mol
Liquid Heat Capacity @ 25°C	61.44 cal/(g·mol)(°C)
Liquid Viscosity @ 20°C	2.9 cP (mPa·s)
Molecular Weight	146.14
Nitrocellulose Solubility	Active
Refractive Index @ 20°C	1.4159
Specific Gravity @ 20°C/20°C	1.10
Solubility	
in Water, @ 20°C	16.4 wt %
Water in, @ 20°C	7.6 wt %
Surface Tension @ 20°C	33.7 dynes/cm
Vapor Density (air = 1)	5
Vapor Pressure	
@ 20°C	0.2 mm Hg
@ 55°C	0.18 kPa
Wt/Vol	
@ 20°C	1.11 kg/L (9.22 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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