

Technical Data Sheet

Eastman™ 2-Ethylhexyl Acetate

Applications

- Auto oem
- Graphic arts
- Paints & coatings

Key Attributes

- High electrical resistance
- Inert - Nonfood use
- Low MIR value
- Low surface tension
- Low water solubility
- Non-HAP
- Non-SARA
- REACH compliant
- Slow evaporation rate
- Urethane grade
- ~32% biodegradation (28 days)

Product Description

Eastman™ 2-Ethylhexyl Acetate is a high boiling retarder solvent with low water solubility, mild odor, and a slow evaporation rate. It is used to promote flow and retard blushing in lacquers, NC lacquer emulsions, screen inks, baking enamels and air-dry enamels.

The chemical substances for this product are listed as Inert Ingredients Permitted for Use in Nonfood Use Pesticide Products under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). For details on specific permissions, [click here](#).

Typical Properties

Property	Test Method	Typical Value, Units
General		
Acidity as Acetic Acid		0.01 wt % max.
Assay		99.0 wt % min.
Autoignition Temperature	D 2155	268 °C (514 °F)
Azeotropes		
BP		99 °C (210.2 °F)
Wt % Water		73.5 wt %
Blush Resistance @ 80°F (26.7°C)		94 % RH
Boiling Point @ 760 mm Hg		199-205 °C (390-401 °F)
Color Pt-Co		15 max.
Critical Pressure		21.4 ATM
Critical Temperature		365.8 °C
Critical Volume		600 ml/g·mol
Dilution Ratio		
Toluene		1.4
VMP Naphtha		0.9
Electrical Resistance		>20 Megohms

Empirical Formula	C ₁₀ H ₂₀ O ₂
Evaporation Rate (ether = 1) (n-butyl acetate = 1)	403.4 0.03
Expansion Coefficient, per °C @ 20°C	0.00079
Flammability Limits in Air, % by Volume Lower @ 93°C Upper @ 149°C	0.8 Vol % 8.1 Vol %
Flash Point Tag Closed Cup Tag Open Cup	71 °C (160 °F) 79 °C (175 °F)
Freezing Point	-93 °C (-135 °F)
Hansen Solubility Parameters Hydrogen Bonding Nonpolar Polar Total	2.5 7.7 1.4 8.2
Heat of Combustion	-1367 kcal/g·mol
Heat of Vaporization	10240 cal/g·mol
Liquid Viscosity @ 20°C	1.5 cP (mPa·s)
Maximum Incremental Reactivity (MIR)	0.79
Molecular Weight	172.27
NFPA Classification 30	IIIA
Nitrocellulose Solubility	Active
Refractive Index @ 20°C	1.41
Solubility in Water, @ 20°C Water in, @ 20°C	0.03 wt % 0.55 wt %
Specific Gravity @ 20°C/20°C	0.873
Surface Tension @ 20°C	25.8 dynes/cm
Vapor Density (air = 1)	4.5
Vapor Pressure @ 20°C @ 55°C	0.4 mm Hg 0.36 kPa
Wt/Vol @ 20°C	0.87 kg/L (7.27 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.

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 or fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

© 2019 Eastman Chemical Company or its subsidiaries. All rights reserved. As used herein, ® denotes registered trademark status in the U.S. only.