EASTMAN

Technical Data Sheet

Eastman™ Ethyl Acetate, Urethane Grade

Applications

- Adhesives
- Aerospace
- Architectural coatings
- Auto oem
- Auto plastics
- Auto refinish
- Commerical printing inks
- Electronic chemicals
- Flexographic printing inks
- Food and beverage intermediates
- Furniture
- General industrial coatings
- Graphic arts
- Htf - pharmaceutical processing
- Industrial maintenance
- Lithographic printing inks
- Marine
- Oil or gas processing
- Packaging component films
- Packaging components non food contact
- Packaging inks non food contact
- Paints & coatings
- Pharmaceutical chemicals
- Photographic chemicals
- Pipe non-food contact
- Process solvents
- Protective & performance film
- Protective coatings
- Wood coatings

Key Attributes

- Excellent solvent activity
- Fast evaporation rate
- High electrical resistance
- Inert - Nonfood use
- Low MIR value
- Low surface tension
- Mild odor
- Non-HAP
- Non-SARA
- Readily biodegradable
- Urethane grade

Product Description

Eastman™ Ethyl Acetate, Urethane Grade is a low-boiling, fast-evaporating solvent with a mild, pleasant odor. It is widely used in formulating printing inks, adhesives, and lacquers. It is a non-HAP solvent with excellent activity for most coating resins. Ethyl acetate is miscible with most organic solvents and can be used in cleaner blends fo the removal of oils, grease, and soils.

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

Typical Properties

Property	Typical Value, Units
General	
Acidity as Acetic Acid	0.005 wt % max.
Assay	99.8 wt % min.
Autoignition Temperature	485 °C (905 °F)
Azeotropes	

BP	70.4 °C (158.7 °F)
Wt % Water	8.5 wt %
Blush Resistance	
@ 80°F (26.7°C)	39 % RH
Boiling Point	
@ 760 mm Hg	75.5-78.5 °C (168-173 °F)
Color	
Pt-Co	10 max.
Critical Pressure	38.3 ATM
Critical Temperature	250.1 °C
Critical Volume	286 ml/g·mol
Dilution Ratio	
Toluene	3.1
VMP Naphtha	1.1
Electrical Resistance	20 Megohms
Empirical Formula	$C_4H_8O_2$
Evaporation Rate	
(ether = 1)	3
(n-butyl acetate = 1)	4.1
Expansion Coefficient, per °C	
@ 20°C	0.00134
Flash Point	
Tag Closed Cup	-4 °C (24 °F)
Freezing Point	-83 °C (-118 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	3.5
Nonpolar	7.7
Polar	2.6
Total	8.8
Heat of Combustion	-492.6 kcal/g·mol
Heat of Vaporization	7703 cal/g·mol
Liquid Heat Capacity	
@ 25°C	40.82 cal/(g*mol)(°C)
Liquid Viscosity	
@ 25°C	0.5 cP (mPa·s)
Maximum Incremental Reactivity (MIR)	0.64
Molecular Weight	88.11
Nitrocellulose Solubility	Active
Refractive Index	
@ 20°C	1.3718
Solubility	
in Water, @ 20°C	7.4 wt %
Water in, @ 20°C	3.3 wt %
Specific Gravity	
@ 20°C/20°C	0.90
Surface Tension	
@ 20°C	23.9 dynes/cm
TLV PPM 1998	400
Vapor Density	
(air = 1)	3
Vapor Pressure	
@ 20°C	86 mm Hg
@ 55°C	45.9 kPa
Wt/Vol	
@ 20°C	0.9 kg/L (7.51 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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