

# Technical Data Sheet

## Eastman™ EB Solvent

### Applications

- Aerosol coatings
- Aerospace coatings
- Architectural coatings
- Auto oem
- Auto refinish
- Coil coatings
- Commerical printing inks
- Construction chemicals
- Fabric care
- Formulators
- Furniture
- Graphic arts
- Hard surface care
- Industrial cleaners
- Institutional cleaners
- Janitorial & household cleaners
- Lubricants
- Marine
- Oil or gas processing
- Paints & coatings
- Process solvents
- Protective coatings
- Rubber modification
- Soap/detergents
- Wood coatings

### Key Attributes

- Efficient coalescent
- Excellent coupling efficiency
- Good solvent activity
- High blush resistance
- Inert - Food use with limitations
- Inert - Nonfood use
- Low surface tension
- Miscible with water and most organic liquids
- Non-HAP
- REACH compliant
- Readily biodegradable
- Slow evaporation rate

### Product Description

Eastman EB Solvent (Ethylene Glycol Monobutyl Ether) offers numerous benefits in coating, ink, and cleaner applications. It is an excellent solvent for many coatings resin types, including alkyd, phenolic, maleic, epoxy, and nitrocellulose resins. It is an exceptional retarder solvent for lacquers, improving gloss and flow-out. Eastman™ EB Solvent is also widely used in amine-solubilized, water-based coatings because of its high flash point, complete water solubility, slow evaporation rate, low surface tension, and high coupling efficiency. This product is an effective coalescent that improves film integrity in both architectural and industrial maintenance latex paints. Its unique combination of properties enables the effective removal of contaminants when used in Industrial & Institutional and/or household cleaners.

On November 18, 2004, the Environmental Protection Agency (EPA) removed ethylene glycol monobutyl ether (EGBE) from the Clean Air Act (CAA) list of Hazardous Air Pollutants (HAP). Thus, EGBE is no longer subject to the Maximum Achievable Control Technology (MACT), residual risk and other specific requirements found in the CAA.

Eastman sells EGBE under the brand name Eastman™ EB Solvent.

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	Test Method	Typical Value, Units
General		

Acidity as Acetic Acid	0.01 wt % max.
Assay	99.0 wt % min.
Autoignition Temperature	D 2155 238 °C (460 °F)
Azeotropes	
BP	98.8 °C (209.8 °F)
Wt % Water	79.2 wt %
Blush Resistance @ 80°F (26.7°C)	96 % RH
Boiling Point @ 760 mm Hg	
Dry Point	172.5 °C (343 °F)
Initial	169 °C (336 °F)
Color	
Pt-Co	10 max.
Critical Pressure	32 ATM
Critical Temperature	326.8 °C
Critical Volume	400 ml/g·mol
Dilution Ratio	
Toluene	3.4
VMP Naphtha	2.1
Electrical Resistance	<0.2 Megohms
Empirical Formula	C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>
Evaporation Rate	
(ether = 1)	136
(n-butyl acetate = 1)	0.09
Expansion Coefficient, per °C @ 20°C	0.00092
Explosive Limits in Air	
Lower @ 93°C	1.1 Vol %
Upper @ 135°C	12.7 Vol %
Fire Point	70 °C (158 °F)
Flash Point	
Tag Closed Cup	62 °C (143 °F)
Tag Open Cup	70 °C (158 °F)
Freezing Point	-75 °C (-103 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	6
Nonpolar	7.8
Polar	2.5
Total	10.2
Heat of Combustion	-848.5 kcal/g·mol
Heat of Vaporization	11060 cal/g·mol
Liquid Heat Capacity @ 25°C	65.49 cal/(g·mol)(°C)
Liquid Viscosity @ 20°C	3.3 cP (mPa·s)
Maximum Incremental Reactivity (MIR)	2.9
Molecular Weight	118.17
NFPA Classification 30	IIIA
Nitrocellulose Solubility	Active
Refractive Index @ 20°C	1.4193
Solubility in Water, @ 20°C	Complete

Water in, @ 20°C	Complete
Specific Gravity @ 20°C/20°C	0.902
Surface Tension @ 20°C	26.6 dynes/cm
TLV PPM 1998	25
TLV PPM 1999	20
Vapor Density (air = 1)	4.1
Vapor Pressure @ 20°C	0.6 mm Hg
@ 55°C	0.97 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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