EASTMAN

Technical Data Sheet
Eastman™ Butyl Acetate

Applications

- Adhesives/sealants-b&c
- Aerosol coatings
- Aerospace coatings
- Architectural coatings
- Auto oem
- Auto plastics
- Auto refinish
- Automotive parts & accessories
- Automotive protective coatings
- Coil coatings
- Commerical printing inks
- Electronic chemicals
- Equipment & machinery
- Flexographic printing inks
- Furniture
- General industrial coatings
- Graphic arts
- Industrial maintenance
- Marine
- Packaging components non food contact
- Personal care ingredients
- Pharmaceutical chemicals
- Process additives
- Process solvents
- Protective coatings
- Road markings
- Solvents/stripping agents
- Truck/bus/rv
- Wood coatings

Key Attributes

- Good solvent activity
- High electrical resistance
- Inert - Nonfood use
- Low MIR value
- Low surface tension
- Low water solubility
- Medium evaporation rate
- Mild odor
- Non-HAP
- Non-SARA
- REACH compliant
- Readily biodegradable
- Urethane grade

Product Description

Eastman™ Butyl Acetate is a medium boiling ester solvent. A colorless liquid with a fruity odor, butyl acetate is an active solvent for film-formers such as cellulose acetate butyrate, nitrocellulose, polyesters, epoxies, alkyds, vinyl copolymers, and acrylic resins. It is widely used in nitrocellulose lacquers, readily dissolving the resin and imparting good flow properties. Eastman™ Butyl Acetate has an evaporation rate of 1.0, which provides a quick drying lacquer without inducing blushing under normal circumstances. It is a urethane grade solvent and is widely used in 2-K polyurethane coatings to help balance flow and dry time.

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	Typical Value, Units
General	
Acidity as Acetic Acid	0.01 wt % max.
Alcohol Content	0.5 wt % max.

Assay	99.5 wt % min.
Autoignition Temperature	407 °C (765 °F)
Azeotropes	
BP	90.2 °C (194.4 °F)
Wt % Water	28.7 wt %
Blush Resistance	
@ 80°F (26.7°C)	83 % RH
Boiling Point	
@ 760 mm Hg	124-129 °C (252-264 °F)
Color	
Pt-Co	5 max.
Critical Pressure	30.7 ATM
Critical Temperature	306 °C
Critical Volume	389 ml/g·mol
Dilution Ratio	
Toluene	2.7
VMP Naphtha	1.2
Electrical Resistance	>20 Megohms
Empirical Formula	$C_6H_{12}O_2$
Evaporation Rate	
(ether = 1)	12.1
(n-butyl acetate = 1)	1.0
Expansion Coefficient, per °C	
@ 20°C	0.00121
Flash Point	
Tag Closed Cup	27 °C (81 °F)
Freezing Point	-74 °C (-101 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	3.1
Nonpolar	7.7
Polar	1.8
Total	8.5
Heat of Combustion	-783.9 kcal/g·mol
Heat of Vaporization	8723 cal/g·mol
Liquid Heat Capacity	
@ 25°C	53.14 cal/(g*mol)(°C)
Liquid Viscosity	
@ 20°C	0.7 cP (mPa·s)
Maximum Incremental Reactivity (MIR)	0.89
Molecular Weight	116.16
Nitrocellulose Solubility	Active
Refractive Index	
@ 20°C	1.39
Solubility	
in Water, @ 20°C	0.7 wt %
Water in, @ 20°C	1.6 wt %
Specific Gravity	
@ 20°C/20°C	0.88
Surface Tension	
@ 20°C	25.1 dynes/cm
TLV PPM 1998	150
Vapor Density	
(air = 1)	4
Vapor Pressure	
@ 20°C	10 mm Hg

@ 55°C	7.4 kPa
Water	0.05 wt % max.
Wt/Vol	
@ 20°C	0.88 kg/L (7.35 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.

4/3/2018 3:37:30 PM