EASTMAN

Technical Data Sheet

Eastman™ n-Butyl Propionate

Applications

- Architectural coatings
- Auto oem
- Auto plastics
- Auto refinish
- Automotive
- Commerical printing inks
- General industrial coatings
- Marine
- Paints & coatings
- Polymer modification
- Wood coatings

Key Attributes

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

Product Description

Eastman™ n-Butyl Propionate is a non-HAP, slow evaporating, and urethane grade solvent with good solvent activity for most coating resins. In lacquers and ambient cure enamels, this solvent is used as a retarder solvent. Its slow evaporation rate allows for flow and leveling but does not prevent the quick rubbing and sanding of the lacquer. Many resins are letdown in a solvent thinning tank to make handling, storing, and shipping easier. Eastman™ n-Butyl Propionate is useful as a letdown solvent because of its low volatility, good solvent activity, and urethane grade quality.

Since n-Butyl Propionate is not on EPA's HAP list, it is a good choice for replacing xylene in coating applications such as high-solids thermoset enamels. It is also used as a processing solvent for high-solids acrylic resins, and for coatings applied via electrostatic spray equipment.

Typical Properties

Property	Typical Value, Units
General	
Assay	99.5 wt % min.
Autoignition Temperature	427 °C
Boiling Point	
@ 760 mm Hg	145-149 °C (293-300 °F)
Color	
Pt-Co	10 max.
Dilution Ratio	
Toluene	1.8
VMP Naphtha	1.1
Electrical Resistance	>20 Megohms
Empirical Formula	$C_7H_{14}O_2$
Evaporation Rate	
(ether = 1)	24.2
(n-butyl acetate = 1)	0.5
Flash Point	
Setaflash Closed Cup	36 °C (97 °F)
Form	Liquid
Freezing Point	-75 °C (-103 °F)
Hansen Solubility Parameters	

Hydrogen Bonding	3.3
Nonpolar	7.5
Polar	1.6
Total	8.4
Molecular Weight	130.19
Odor	Ester
Refractive Index	
@ 20°C	1.404
Solubility	
in Water, @ 20°C	0.4 wt %
Water in, @ 20°C	0.7 wt %
Specific Gravity	
@ 20°C/20°C	0.876
Surface Tension	
@ 20°C	25.3 dynes/cm
Vapor Density	4.5
Vapor Pressure	
@ 20°C	3.0 mm Hg
@ 55°C	3.3 kPa
Viscosity	
@ 25°C, 8% CAB-381-0.5	30 cP
@ 25°C, 8% RS $^{1}/_{2}$-s NC	28 cP
Wt/Vol	
@ 20°C	0.87 kg/L (7.30 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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