

Technical Data Sheet

Eastman™ Isobutyl Acetate

Applications

- Aerosol coatings
- Architectural coatings
- Auto oem
- Auto plastics
- Auto refinish
- Coil coatings
- Electronic chemicals
- Furniture
- General industrial coatings
- Graphic arts
- Industrial maintenance
- Inks
- Marine
- Metal coatings
- Pharmaceutical chemicals
- Process solvents
- Protective coatings
- Roofing ingredients
- Solvents/stripping agents
- 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™ Isobutyl Acetate is a medium boiling solvent with a typical mild, fruity, ester odor. It resembles n-butyl acetate and methyl isobutyl ketone in solvent performance and can be used as a replacement for these solvents in many formulations. Its combination of good solvent activity, desirable evaporation rate, and pleasant odor enables it to be used in a wide range of coating applications.

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	427 °C (800 °F)
Azeotropes		
BP		87.4 °C (189.3 °F)
Wt % Water		16.5 wt %
Blush Resistance @ 80°F (26.7°C)		80 % RH
Boiling Point @ 760 mm Hg		112-119 °C (234-246 °F)
Color		

Pt-Co	10 max.
Critical Pressure	31.2 ATM
Critical Temperature	287.8 °C
Critical Volume	389 ml/g·mol
Dilution Ratio	
Toluene	2.7
VMP Naphtha	1.1
Electrical Resistance	20 Megohms
Empirical Formula	C ₆ H ₁₂ O ₂
Evaporation Rate	
(ether = 1)	8.6
(n-butyl acetate = 1)	1.4
Expansion Coefficient, per °C	
@ 20°C	0.00126
Flash Point	
Tag Closed Cup	20 °C (69 °F)
Tag Open Cup	24 °C (75 °F)
Fire Point	31 °C (88 °F)
Flammability Limits in Air, % by Volume	
Lower @ 93°C	1.3 Vol %
Upper @ 93°C	7.5 Vol %
Freezing Point	-99 °C (-146 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	3.1
Nonpolar	7.4
Polar	1.8
Total	8.2
Heat of Combustion	-793.3 kcal/g·mol
Heat of Vaporization	8575 cal/g·mol
Liquid Heat Capacity	
@ 25°C	55.8 cal/(g·mol)(°C)
Liquid Viscosity	
@ 20°C	0.7 cP (mPa·s)
Maximum Incremental Reactivity	0.67
(MIR)	
Molecular Weight	116.2
Nitrocellulose Solubility	Active
Refractive Index	
@ 20°C	1.4
Solubility	
in Water, @ 20°C	0.7 wt %
Water in, @ 20°C	1.6 wt %
Specific Gravity	
@ 20°C/20°C	0.87
Surface Tension	
@ 20°C	23.7 dynes/cm
TLV PPM 1998	150
Vapor Density	
(air = 1)	4
Vapor Pressure	
@ 20°C	12.5 mm Hg
@ 55°C	10.7 kPa
Wt/Vol	
@ 20°C	0.87 kg/L (7.25 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 of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

4/3/2018 11:03:26 AM

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