EASTMAN

Technical Data Sheet

Eastman™ Methyl Acetate, High Purity

Chemical Synonym

Methyl Acetate

Applications

- Adhesives/sealants-b&c
- Aerosol coatings
- Architectural coatings
- Artifical sweetener
- Auto oem
- Auto refinish
- Automotive
- Commerical printing inks
- Construction chemicals
- General assembly hotmelts
- General industrial coatings
- Graphic arts
- Intermediates
- Marine
- Paints & coatings
- Personal care ingredients
- Pharmaceutical chemicals
- Process additives
- Process solvents
- Protective coatings
- Sporting equipment
- Wood coatings

Key Attributes

- Excellent solvent activity
- Fast evaporation rate
- High electrical resistance
- Low MIR value
- Low odor
- Non-HAP
- Non-SARA
- Readily biodegradable
- Urethane grade
- VOC exempt

Product Description

Eastman™ Methyl Acetate, High Purity is a fast evaporating, mild odor, active solvent that is used with a broad range of coating and ink resins. It is similar in performance to the regular grade of methyl acetate supplied by Eastman. However, Eastman™ Methyl Acetate, High Purity is a urethane grade (low water and alcohol content) solvent, making it useful in moisture sensitive paints such as 2-K polyurethane coatings. Because of its fast evaporation rate, this solvent is suitable for use in other applications where fast solvent release and quick dry-to-touch time are needed. Methyl acetate is exempt from regulation as a VOC under Federal law [40 CFR 51.100(s)]. It is a non-HAP, non-ODS, readily biodegradable solvent that can be used in blends to develop environmentally friendly cleaners.

Typical Properties

Property	Typical Value, Units
General	
Acidity	
as Acetic Acid	0.05 wt % max.
Assay	99.5 wt % min.
Autoignition Temperature	501 °C
Azeotropes	
BP	56.1 °C
Wt % Water	5.0 wt %
Boiling Point	
@ 760 mm Hg	55.8-58.2 °C (132-137 °F)
Color	

Pt-Co	5 max.
Dilution Ratio	
Toluene	2.9
VMP Naphtha	0.9
Electrical Resistance	4.0 Megohms
Empirical Formula	$C_3H_6O_2$
Evaporation Rate	
(ether = 1)	1.9
(n-butyl acetate = 1)	6.2
Flash Point	
Setaflash Closed Cup	-15 °C (4 °F)
Freezing Point	-98 °C (-144 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	3.7
Nonpolar	7.6
Polar	3.5
Total	9.2
Methyl Alcohol Content	0.10 wt % max.
Molecular Weight	74.09
Refractive Index	
@ 20°C	1.3589
Solubility	
in Water	22.7 %
in Water, @ 20°C	22.7 wt %
Water in	8.8 %
Water in, @ 20°C	8.8 wt %
Specific Gravity	
@ 20°C/20°C	0.933
Surface Tension	
@ 20°C	25.2 dynes/cm
TLV PPM 1999	200
Vapor Pressure	
@ 20°C	179.5 mm Hg
@ 55°C	94.3 kPa
Viscosity	
@ 25°C, 8% CAB-381-0.5	14 cP
@ 25°C, 8% RS $^1/_2$-s NC	11 cP
Water	0.05 wt % max.
Wt/Vol	
@ 20°C	0.93 kg/L (7.78 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.