

# ETHYL ACETATE

CAS NO. 141-78-6

Product Description	Key Features	Application
<ul style="list-style-type: none"> <li>Ethyl Acetate (EA) is a moderately polar solvent that has the advantages of being volatile, relatively non-toxic, and non-hygroscopic.</li> <li>It is a neutral colorless liquid with a faint and pleasant fruity odor. It is miscible in all proportions with the common organic solvents.</li> <li>It is an excellent solvent for nitrocellulose, cellulose ethers, celluloid, chlorinated rubber, some natural resins and numerous synthetic resins e.g. polyvinyl acetates, polyacrylates, polystyrene (coatings) and alkyd resins as well as plasticizers, fats, waxes and oils.</li> <li>Due to its low toxicity and agreeable odor, EA has applications as a solvent in inks for flexographic and rotogravure printing, where its main function is to dissolve the resin, control the viscosity and modify the drying rate.</li> </ul>	<ul style="list-style-type: none"> <li>Moderate polarity</li> <li>High volatility</li> <li>Non-hygroscopic</li> <li>Low-toxicity</li> </ul>	<ul style="list-style-type: none"> <li>Surface coating</li> <li>Varnishes and thinners</li> <li>Electronics</li> <li>Essences, flavors and perfumes</li> <li>Polyester films</li> <li>Inks and printing</li> <li>Extraction solvent</li> </ul>

Properties	Typical Value	Unit	Test Based On
Acidity as Acetic acid	0.004 Max	% wt	
Assay	99.5 Min	% wt	
Autoignition Temperature	427 (801)	°C (°F)	
Boiling Point @ 760 mmHg			
Initial	77.1 (171)	°C (°F)	
Color	10 Max	Pt-Co	
Critical Pressure	38	atm	
Critical Temperature	250	°C	
Empirical Formula	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>		
Evaporation Rate (n-butyl acetate = 1)	5.5	-	
Expansive Limits in Air			
Lower	2.2	vol%	
Upper	11.4	vol%	
Flash Point	-4 (25)	°C (°F)	
Freezing Point	-83.8 (-119)	°C (°F)	
Hansen Solubility Parameters			
Hydrogen bonding	7.2	-	
Nonpolar	15.8	-	
Polar	5.3	-	
Total	18.1	-	
Heat of Combustion	-5616	cal/g	
Heat of Vaporization	87.6	cal/g	
Liquid Viscosity @ 25 °C	0.423	cP (mPa.s)	
Molecular Weight	88.1	-	
Refractive Index @ 20°C	1.3724	-	
Solubility			
In water, @ 20 °C	79	g/l	
Specific Gravity @ 20°C/20°C	0.90	-	
Surface Tension @ 20 °C	24	Dynes/cm	
Vapor Density (air = 1)	3	-	
Vapor Pressure @ 20 °C	10	kPa	
Wt/Vol @ 20 °C	0.897-0.902	g/cm <sup>3</sup>	

## Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup>Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance please contact our sales representative

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