



Methyl Acetate 99.5% and 80%

KEY FEATURES:

- Clear, colorless liquid
- Pleasant odor
- High solubility with most common organic solvents





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PRODUCT DESCRIPTION

Methyl acetate 99.5% is a clear, colorless liquid with a non-residual, pleasant odor typical of esters. It has a limited solubility in water; however, it has good-to-high solubility with most common organic solvents. The boiling point of **methyl acetate** is 57°C at 760 mmHg (1 atm). **Methyl acetate** dissolves a wide variety of resins including many acrylics, vinyls, epoxies, urethanes, polyesters, phenolics and cellulose. It does not dissolve rubber or polyvinyl chloride.

APPLICATIONS

Methyl acetate's fast evaporation rate is used in formulated products such as fast-dry industrial maintenance coatings, air-dry automotive refinish paints, aerosol coatings, quick-dry adhesives and spray-applied furniture coatings. Celanese high-purity **methyl acetate** is used as an intermediate in a variety of synthesis applications, e.g., in the production of pharmaceutical intermediates. As of this publication date, Celanese **methyl acetate** has the highest purity available in the market and, therefore, can be used in numerous quality-critical applications, including as a solvent for polyurethane coatings and adhesives, blowing agent for polyurethane and other foams, intermediates, process solvents for agricultural chemicals, general organic syntheses, etc.

Other possible uses are paint strippers, fuel system cleaners and additives, battery electrolytes, polymerization solvents, cleaners for electronics, precision parts, photoresist strippers and inks: flexographic, gravure, marking and writing, and for inkjet printers.

Methyl acetate's fast evaporation rate has advantages in other applications. For example, furniture coatings are often acrylic or nitrocellulose-based lacquers containing a blend of fast- and slow-evaporating solvents. In such a system, the fast evaporation rate of **methyl acetate** can be balanced with a slower evaporating "tail" solvent to maintain the desired overall drying rate. Of course, the formulator must also be cognizant of flash point and blush resistance limitations when reformulating with **methyl acetate**. Celanese also offers **methyl acetate 80%** with a minimum assay of 80.1% (by GC). The methanol content of the 80% grade material contains up to 19.9% methanol (by GC). Further information regarding **methyl acetate 80%** can be made available upon request.

TYPICAL PROPERTIES

	Unit	
Molar mass	g/mol	74.08
Boiling range at 1013 hPa (DIN 53 171)	°C	57
Melting temperature	°C	-99
Refractive index n_D at 20°C (DIN 51 423, part 2)		1.360 – 1.362
Vapor pressure at 20°C	mbar	228
Solubility in water at 20°C	g/l	243
Water absorption at 20°C	% (w/w)	8
Dielectric constant at 20°C (DIN 53 483)		7.3
Evaporation number (DIN 53 170, diethyl ether = 1)		2.2