

# Technical Data Sheet

## Eastman™ Acetaldehyde

### Applications

- Building materials
- Fertilizer
- Food flavors & food fragrances
- Herbicides - intermediate for other
- Pharmaceutical chemicals
- Process additives

### Product Description

Eastman™ Acetaldehyde is a highly reactive, flammable, colorless liquid. It is miscible with water, ethyl alcohol, ethyl ether, acetone, benzene, gasoline, toluene, xylene, and acetic acid. Acetaldehyde undergoes the general reactions of aldehydes and is important for numerous condensation, addition, and polymerization reactions.

Acetaldehyde undergoes the aldol condensation by which crotonaldehyde and higher aldehydes are formed. The aldol condensation of formaldehyde with acetaldehyde yields pentaerythritol. The Tischenko reaction of acetaldehyde with isobutyraldehyde yields a mixture of ethyl acetate, isobutyl acetate, and isobutyl isobutyrate. Pyridine and pyridine derivatives are produced from the reaction of acetaldehyde, formaldehyde, and ammonia. Other derivatives of acetaldehyde include lactic acid, 1,3-butylene glycol, and chloral.

Acetaldehyde is available in North America in tank cars and tank trucks. For quantities less than a single tank truck, please contact Aldrich Chemical Company (800-213-1206) regarding their returnable container program.

### Typical Properties

Property	Typical Value, Units
<b>General</b>	
Form	Liquid
Color	
Pt-Co	10 max.
Specific Gravity @ 20°C/20°C	0.78
Boiling Point	21 °C
Freezing Point	-123 °C
Flash Point	
Tag Closed Cup	-39 °C (-38 °F)
Assay	99.7 wt % min.

### 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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