

### PRODUCT IDENTIFICATION



**Product Name:** Ethyl Acetate

**CAS Number:** 141-78-6

**Molecular Formula:** C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>

**Molecular Weight:** 88.11 g/mol

**Grade:** Technical

**Purity / Concentration:** Not Available

**Synonyms:** Ethyl Ethanoate, Acetic Ether

### PRODUCT OVERVIEW

Ethyl Acetate (CAS 141-78-6) is a versatile, high-purity technical grade solvent characterized by its colorless appearance and distinct fruity odor. With a high assay of 99.8% and extremely low impurity levels, such as 0.02% water content, it is an essential chemical for diverse industrial applications requiring consistent performance.

**Grade Significance:** Technical grade indicates that this product is manufactured to provide high-performance chemical reliability for industrial and manufacturing processes where consistency is essential for quality control.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	99.8	99.5	—	Gas Chromatography
Color (APHA)	APHA	5	—	10	ASTM D1209
Specific Gravity (20°C)	g/mL	0.9	0.898	0.902	USP <841>
Residue After Ignition	%	0.0005	—	0.0010	Gravimetric
Water Content	%	0.02	—	0.05	Karl Fischer Titration
Heavy Metals (as Pb)	ppm	0.1	—	1	ICP-OES
Iron (Fe)	ppm	0.1	—	0.5	ICP-OES
Chloride (Cl <sup>-</sup> )	ppm	0.1	—	1	Ion Chromatography
Sulfate (SO <sub>4</sub> <sup>2-</sup> )	ppm	0.2	—	1	Ion Chromatography
Acidity As Acetic Acid	%	0.0010	—	0.0050	Titration

ND = Not Detected. Values are typical and may vary by lot.

## PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Colorless, volatile liquid with a characteristic fruity odor	<b>Odor</b>	Sweet, fruity odor
<b>Form</b>	Liquid	<b>Boiling Point</b>	77°C (170.6°F)
<b>Melting / Freezing Point</b>	-84°C (-119.2°F)	<b>Flash Point</b>	-4°C (24.8°F)
<b>Specific Gravity</b>	0.902	<b>Solubility</b>	Soluble in water, alcohols, and most organic solvents
<b>Molecular Formula</b>	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	<b>Molecular Weight</b>	88.11 g/mol
<b>Vapor Pressure (20°C)</b>	97 mmHg	<b>Viscosity (25°C)</b>	0.45 cP
<b>Refractive Index (20°C)</b>	1.372	<b>Density (25°C)</b>	0.902 g/mL
<b>Partition Coefficient (log P)</b>	-0.3	<b>Decomposition Temp.</b>	Not applicable (thermally stable under 25°C)

## APPLICATIONS

- Analytical Chemistry** — It serves as a critical mobile phase component in reversed-phase high-performance liquid chromatography (HPLC) for the precise separation of complex organic compounds.
- Coatings and Paints** — Due to its excellent solvency power, this liquid is widely utilized in the formulation of paints and varnishes to effectively dissolve a broad spectrum of resins.
- Pharmaceutical Manufacturing** — It is employed in liquid-liquid extraction processes, providing the necessary purity for the successful isolation of pharmaceutical intermediates.
- Industrial Maintenance** — This solvent is highly effective for cleaning and degreasing metal components, ensuring surfaces are prepped correctly for further manufacturing steps.

## STORAGE & HANDLING

Proper storage is critical because Ethyl Acetate is a highly flammable liquid with a flash point of -4°C, posing a significant fire risk if exposed to heat or sparks. It must be kept in a cool, well-ventilated area away from ignition sources to prevent the accumulation of hazardous vapors and ensure workplace safety.

- Store in a cool, well-ventilated area away from heat sources.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Keep away from strong oxidizing agents and acids.
- Ensure proper PPE, including gloves and goggles, is worn during handling.
- Avoid exposure to light to maintain product integrity.

## AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon

## SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



### Hazard Statements:

- H225: Highly Flammable liquid and vapor [Danger Flammable liquids]
- H319: Causes serious eye irritation [Warning Serious eye damage/eye irritation]
- H336: May cause drowsiness or dizziness [Warning Specific target organ toxicity, single exposure; Narcotic effects]

**Emergency Contact:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

*For complete safety information, refer to the Safety Data Sheet (SDS) for this product.*

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