

PRODUCT IDENTIFICATION



Product Name: Ethyl Acetate Technical Grade

CAS Number: 141-78-6

Molecular Formula: $C_4H_8O_2$

Molecular Weight: 88.11 g/mol

Grade: Technical Grade

Purity / Concentration: Not Available

Synonyms: Ethyl Ethanoate, Acetic Ether

PRODUCT OVERVIEW

Ethyl Acetate Technical Grade is a highly versatile, colorless solvent known for its distinct fruity odor and rapid evaporation rate. This technical grade product is widely utilized across industrial sectors as an effective thinning agent for resins and a critical component in chemical extraction processes.

Grade Significance: Technical Grade indicates a product manufactured for industrial utility where high-volume performance is prioritized over pharmaceutical-grade purity. This grade ensures cost-effective functionality for non-clinical applications like cleaning, thinning, and large-scale synthesis.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Colorless, volatile liquid with a characteristic fruity odor	Odor	Sweet, fruity odor
Form	Liquid	Boiling Point	171 °F at 760 mmHg (NTP, 1992)
Melting / Freezing Point	-118.5 °F (NTP, 1992)	Flash Point	24 °F (NTP, 1992)
Specific Gravity	0.902	Solubility	Soluble in water, alcohols, and most organic solvents
Molecular Formula	$C_4H_8O_2$	Molecular Weight	88.11 g/mol
Vapor Pressure (20°C)	97 mmHg	Viscosity (25°C)	0.45 cP
Refractive Index (20°C)	1.372	Density (25°C)	0.902 g/mL
Partition Coefficient (log P)	-0.3	Decomposition Temp.	Not applicable (thermally stable under 25°C)

APPLICATIONS

- Coatings and Paints** — Used as a primary solvent in the formulation of paints and varnishes due to its excellent ability to dissolve a wide range of resins.
- Pharmaceuticals** — Functions as an essential solvent in liquid-liquid extraction processes to isolate and purify pharmaceutical intermediates.
- Analytical Chemistry** — Serves as a reliable mobile phase component in high-performance liquid chromatography for the accurate separation of complex organic compounds.
- Manufacturing** — Provides effective cleaning and degreasing capabilities for metal parts, ensuring surfaces are free of contaminants before further processing.

STORAGE & HANDLING

Due to its low flash point of 24 °F, Ethyl Acetate is highly flammable and requires storage in a cool, well-ventilated area away from all ignition sources. Proper containment prevents the buildup of dangerous vapors and minimizes the risk of fire or respiratory irritation in the workplace.

- 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 vapour
- H319: Causes serious eye irritation
- H336: May cause drowsiness or dizziness
- EUH066: Repeated exposure may cause skin dryness or cracking

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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