

PRODUCT IDENTIFICATION



Product Name: Ethyl Acetate Technical Grade

CAS Number: 141-78-6

Molecular Formula: C₄H₈O₂

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 pure, volatile solvent characterized by its 99.9% purity and low moisture content of 0.03% or less. This colorless liquid is widely favored in industrial manufacturing and laboratory settings for its excellent solvency and fast evaporation rate.

Grade Significance: Technical Grade ensures that the product meets high purity standards suitable for industrial and laboratory applications while providing a cost-effective solution for non-food-grade manufacturing processes.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Purity Gc	%	99.9	99.8	—	GC/Titration
Color (APHA)	APHA	5	—	5	APHA
Specific Gravity (20°C)	g/mL	0.902	0.9	0.903	Hydrometer @ 20°C
Water Karl Fischer	%	≤ 0.03 %	—	—	Karl Fischer
Acidity As Acetic	%	ND	—	0.01	Titration per ACS/USP
Deg Content	%	ND	—	0.04	GC

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

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 ₄ H ₈ O 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

1. **Analytical Chemistry** — Functions as a reliable mobile phase component in reversed-phase high-performance liquid chromatography for the precise separation of organic compounds.
2. **Coatings and Adhesives** — Acts as a powerful solvent for paints, varnishes, and resins due to its ability to dissolve a wide range of film-forming materials.
3. **Pharmaceutical Manufacturing** — Used extensively in liquid-liquid extraction processes to efficiently isolate and purify essential pharmaceutical intermediates.
4. **Industrial Cleaning** — Provides effective degreasing and cleaning for metal components, ensuring surfaces are free of contaminants before further processing.

STORAGE & HANDLING

Due to its highly flammable nature and low flash point of 24 °F, this chemical must be stored in a cool, well-ventilated area away from all ignition sources. Proper containment is essential to prevent the accumulation of vapors, which can cause dizziness or drowsiness if inhaled in confined spaces.

- 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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