

Material Safety Data Sheet (MSDS)

Ethyl Acetoacetate

Revision Date: 24-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Ethyl Acetoacetate
- **Chemical Formula:** C₆H₁₀O₃
- **CAS No:** 141-97-9
- **Synonyms:** EAA; Acetoacetic acid ethyl ester; Ethyl 3-oxobutanoate
- **Recommended Use:** Intermediate for pharmaceuticals, flavors & fragrances, agrochemicals; solvent/reactant in organic synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable Liquid (Category 4); Skin Irritant (Category 2); Eye Irritant (Category 2A); Specific Target Organ Toxicity – Single Exposure (Category 3: respiratory irritation)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Combustible liquid
 - Causes skin irritation
 - Causes serious eye irritation
 - May cause respiratory irritation

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• **Precautionary Statements:**

- Keep away from heat/sparks/open flames and hot surfaces
- Use only outdoors or in a well-ventilated area; avoid breathing vapors
- Wear protective gloves/eye protection
- Wash thoroughly after handling

Section 3: Composition / Information on Ingredients

- **Concentration:** $\geq 98\%$

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, administer oxygen and seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Get medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if unwell.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide (CO_2), water spray.
- **Specific Hazards:** Combustible liquid and vapor. Vapors may form explosive mixtures with air

at elevated temperatures. Combustion produces carbon oxides.

- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

- **Personal Precautions:** Eliminate ignition sources. Ensure adequate ventilation. Avoid inhalation and skin/eye contact; use personal protective equipment.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Contain spill. Absorb with inert material (sand, earth, vermiculite). Collect in suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Avoid breathing vapors/mist. Avoid contact with skin and eyes. Use with adequate ventilation and keep away from ignition sources.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat, sparks, and oxidizers.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No specific occupational exposure limits established.
- **Engineering Controls:** Provide local exhaust/adequate general ventilation.

- **Personal Protective Equipment:** Protective gloves, chemical splash goggles/face shield, protective clothing; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** characteristic, ester-like
- **Boiling Point:** 180 °C
- **Flash Point:** 82 °C (closed cup)
- **Density:** 1.02 g/mL at 25 °C
- **Solubility:** Slightly soluble in water; miscible with ethanol and most organic solvents
- **Molecular Weight:** 130.14 g/mol\

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong bases; reacts with strong acids and bases.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin and eye irritation; may cause respiratory irritation. Oral LD50 (rat) >

3,000 mg/kg.

- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis.

Section 12: Ecological Information

- **Ecotoxicity:** Not expected to be highly toxic to aquatic organisms; avoid uncontrolled release.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low to moderate potential.

Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Do not release into the environment.

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Ethyl Acetoacetate
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories.
- Classified as hazardous substance as per GHS.

Section 16: Other Information

Disclaimer: The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. Triveni Chemicals disclaims liability for damage resulting from handling or contact.