TCI E0882-25G

Product Instruction Manual

Product: Ethyl Isobutyrylacetate
Model: E0882-25G
Brand: TCI America

1. Product Overview

This manual provides essential information for the safe and effective handling, storage, and use of Ethyl Isobutyrylacetate (E0882-25G) supplied by TCI America.
Ethyl Isobutyrylacetate is an organic reagent primarily intended for laboratory research and development applications. It is a carbonyl compound and a key building block in organic chemistry.

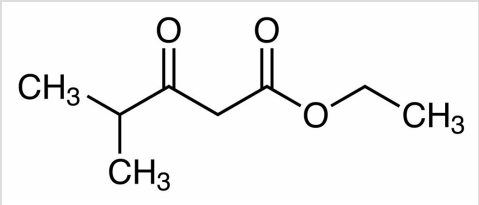

Image: Typical packaging for TCI America chemical reagents, including Ethyl Isobutyrylacetate.

2. Safety Information and Precautions

WARNING: This product is for laboratory research use only. It is not intended for human or animal use, or as a component in food, drugs, medical devices, cosmetics, or pesticides.
Always consult the Safety Data Sheet (SDS) for comprehensive safety information before handling this chemical. Key precautions include:

- Wear appropriate Personal Protective Equipment (PPE), including safety goggles, gloves, and a lab coat.
- Work in a well-ventilated area or under a fume hood to avoid inhalation of vapors.
- Avoid contact with skin, eyes, and clothing. In case of contact, rinse immediately with plenty of water and seek medical advice.
- Do not ingest. If swallowed, seek immediate medical attention.
- Keep container tightly closed when not in use.
- Store away from incompatible materials.

3. Product Specifications

Detailed chemical and physical properties of Ethyl Isobutyrylacetate (E0882-25G):

Property	Value
Chemical Name	Ethyl Isobutyrylacetate
CAS Number	7152-15-0
MDL Number	MFCD00009198
Purity (GC)	>95.0%
Molecular Formula	C8H14O3
Molecular Weight	158.20
Boiling Point	90 °C
Synonyms	Isobutyrylacetic Acid Ethyl Ester, Ethyl 4-Methyl-3-oxovalerate, 4-Methyl-3-oxovaleric Acid Ethyl Ester

Image: Chemical structure of Ethyl Isobutyrylacetate (C8H14O3).

4. Handling and Storage

4.1. Receiving and Initial Inspection

Upon receipt, inspect the packaging for any signs of damage or leakage. Ensure the product label matches the order and the container is sealed. Store immediately according to recommended conditions.

4.2. Storage Conditions

Store Ethyl Isobutyrylacetate at a temperature range of 15-25 °C (room temperature). Keep the container tightly closed in a dry, well-ventilated place. Protect from light and moisture. Ensure storage area is secure and accessible only to authorized personnel.

4.3. General Handling Guidelines

- Handle with care to prevent spills.
- Use clean, dry glassware and equipment.
- Avoid cross-contamination with other chemicals.
- Always return unused material to its original container if possible, or dispose of properly.

5. Usage Guidelines

Ethyl Isobutyrylacetate is used as an organic reagent in various chemical synthesis and research applications. Specific usage protocols will depend on the intended experimental design.

5.1. Application

This chemical is categorized under Organic Reagents and Carbonyl Compounds [Non-Heterocyclic Building Blocks]. It serves as a versatile building block for synthesizing more complex organic molecules.

5.2. Purity Considerations

The product is supplied with a purity of >95.0% (GC). For sensitive applications, users should consider verifying purity before use. Impurities may affect reaction outcomes.

6. Emergency Procedures and Disposal

6.1. Spill Response

In case of a spill, immediately evacuate the area if necessary and ensure proper ventilation. Wear appropriate PPE. Absorb the spilled material with an inert absorbent (e.g., sand, vermiculite, diatomaceous earth). Collect in a suitable container for disposal. Do not allow product to enter drains or watercourses.

6.2. First Aid

- **Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- **Skin Contact:** Wash off with soap and plenty of water. Consult a physician if irritation develops.
- **Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- **Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

6.3. Waste Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations. Chemical waste should be handled by licensed waste disposal contractors.

7. Legal Disclaimer

TCI America's products are intended primarily for laboratory use and, unless otherwise indicated on TCI America's invoice, other writings, or on product labels, are not to be used for other purposes, including, but not limited to, human or animal use, or a component in, a food, drug, or medical device (including in vitro diagnostic reagents) or cosmetics as defined in the Federal Food, Drug and Cosmetic Act, as amended, nor as a pesticide as defined in the Federal Insecticide, Fungicide and Rodenticide Act, as amended. Buyer acknowledges that the products purchased hereunder have not been tested by TCI America for safety and efficacy in a food, drug, cosmetic or pesticide unless otherwise stated by TCI America in writing furnished to Buyer. Buyer expressly represents and warrants to TCI America that Buyer will properly test, use, manufacture and market any products purchased from TCI America. For full disclaimer, see TCI Terms and conditions.

8. Support and Contact

For technical support, product inquiries, or to access the Safety Data Sheet (SDS), please visit the official TCI America

website or contact their customer service. TCI America is a division of Tokyo Chemical Industry, offering a wide range of high-quality organic reagents for research and development.

Image: A selection of chemical products from TCI America.

You can find more information and contact details by visiting theTCI Store on Amazon or their official corporate website.