

Material Safety Data Sheet (MSDS)

Methyl 3-Nonenoate

Revision Date: 23-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Methyl 3-Nonenoate
- **Chemical Formula:** C₁₀H₁₈O₂
- **CAS No:** 13481-87-3
- **Synonyms:** Methyl non-3-enoate; 3-Nonenoic acid, methyl ester
- **Recommended Use** Flavor & fragrance ingredient; chemical intermediate.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquid .
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation

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- Causes serious eye irritation

• **Precautionary Statements:**

- Avoid contact with skin and eyes

- Wear protective gloves and eye protection

- Wash hands thoroughly after handling

Section 3: Composition / Information on Ingredients

• **Concentration:** ≥96%

Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms occur, seek medical attention.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical advice.

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Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide (CO₂), water spray.
- **Specific Hazards:** Combustible liquid. May form flammable/explosive vapor-air mixture when heated.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Remove ignition sources. Use personal protective equipment. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth, diatomaceous earth). Collect in suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Keep away from heat/sparks/open flames/hot surfaces. Avoid inhalation of vapors and contact with skin/eyes. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Keep cool. Protect from sunlight.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not specifically established for Methyl 3-Nonenoate.
- **Engineering Controls:** Ensure adequate ventilation and local exhaust systems.
- **Personal Protective Equipment:** Gloves, protective goggles, lab coat; use respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Clear, colorless liquid
- **Odor:** Green, fruity, pear-like
- **Boiling Point:** 212.7 °C (760 mmHg)
- **Flash Point:** 88 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in organic solvents
- **Molecular Weight:** 170.25 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** May cause mild irritation to eyes/skin; vapors may cause respiratory irritation.
- **Chronic Effects:** Prolonged or repeated exposure may cause skin dryness or cracking.

Section 12: Ecological Information

- **Ecotoxicity:** Not classified as environmentally hazardous, but large releases may be harmful to aquatic organisms.
- **Persistence and Degradability:** Expected to be biodegradable under normal conditions.
- **Bioaccumulative Potential:** Not established.

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:** NA1993
- **Proper Shipping Name:** Methyl 3-Nonenoate
- **Hazard Class:** 3
- **Packing Group:** III

Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA; EC No.: 236-786-9).
- GHS Classification: Flammable liquid Category 4 (H227).

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 any liability for damage resulting from handling or contact.