

Material Safety Data Sheet (MSDS)

Phenylacetaldehyde

Revision Date: 22-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Phenylacetaldehyde
- **Chemical Formula:** C₈H₈O
- **CAS No:** 122-78-1
- **Synonyms:** 2-Phenylethanal; Benzeneacetaldehyde; Hyacinth aldehyde
- **Recommended Use:** Flavor and fragrance ingredient; chemical intermediate; laboratory chemical.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquids (Category 4); Acute toxicity, Oral (Category 4); Skin irritation (Category 2); Eye irritation (Category 2A); Skin sensitization (Category 1).
- **Signal Word:** Warning
- **Hazard Statements:**

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- Harmful if swallowed
- Causes skin and serious eye irritation
- **Precautionary Statements:**
 - Wash thoroughly after handling; avoid breathing vapors
 - Wear protective gloves/eye protection; use only with adequate ventilation
 - IF ON SKIN or IN EYES: Rinse cautiously with water; seek medical advice if irritation persists

Section 3: Composition / Information on Ingredients

- Concentration: 100%

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms (coughing, irritation) occur, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation or sensitization occurs.
- **Eye Contact:** Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do. Continue rinsing.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide (CO₂); water spray for cooling.
- **Specific Hazards:** Combustible liquid; vapors may form explosive mixtures with air; combustion may produce carbon oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

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

Section 7: Handling and Storage

- **Handling:** Avoid breathing vapors and contact with skin/eyes. Use non-sparking tools and explosion-proof equipment.

- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat, sparks, open flames, and oxidizers.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not specifically established; follow local regulations.
- **Engineering Controls:** Provide adequate general ventilation; local exhaust if needed.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles; protective clothing; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Floral, hyacinth-like odor
- **Boiling Point:** 195–197 °C
- **Flash Point:** 68 °C (closed cup)
- **Solubility:** Slightly soluble in water; miscible with alcohols and most organic solvents
- **Molecular Weight:** 120.15 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions; may form peroxides on prolonged air exposure.
- **Incompatible Materials:** Strong oxidizing agents, 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:** Harmful if swallowed; causes skin and eye irritation; may cause respiratory irritation and skin sensitization.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or sensitization.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life with long lasting effects (data limited).
- **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:** 3265
- **Proper Shipping Name:** Phenylacetaldehyde
- **Hazard Class:** 8
- **Packing Group:** II

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- 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 any liability for damage resulting from handling or contact.

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