

## Material Safety Data Sheet (MSDS)

### Phenylacetic Acid

Revision Date: 22-September-2025

Version: 1.0

#### Section 1: Product Identification

- **Product Name:** Phenylacetic Acid
- **Chemical Formula:** C<sub>8</sub>H<sub>8</sub>O<sub>2</sub>
- **CAS No:** 103-82-2
- **Synonyms:** Benzeneacetic acid;  $\alpha$ -Toluic acid; PAA
- **Recommended Use:** Laboratory chemical, pharmaceutical intermediate, fragrance chemical.

#### Section 2: Hazards Identification

- **Classification (GHS):** Irritant — Skin irritation (Category 2); Eye irritation (Category 2A).
- **Signal Word:** Warning
- **Hazard Statements:**
  - Causes skin irritation

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- Causes serious eye irritation

• **Precautionary Statements:**

- Wash thoroughly after handling

- Wear protective gloves/eye protection

- 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 occur, seek medical advice.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Get medical attention if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention if unwell.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide.
- **Specific Hazards:** Emits toxic fumes of carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

## Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Sweep up and place in suitable container for disposal. Avoid raising dust.

## Section 7: Handling and Storage

- **Handling:** Avoid breathing dust. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation.
- **Storage:** Store in a cool, dry, well-ventilated place. Keep container tightly closed.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No occupational exposure limits established.
- **Engineering Controls:** Provide adequate ventilation; use local exhaust if dust generated.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing; dust respirator if needed.

## Section 9: Physical and Chemical Properties

- **Appearance:** White to off-white crystalline solid
- **Odor:** Stench
- **Boiling Point:** 265 °C (decomposes)
- **Flash Point:** 132 °C
- **Solubility:** Slightly soluble in water; soluble in ethanol, ether, chloroform
- **Molecular Weight:** 136.15 g/mol

## Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong 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.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis. No evidence of carcinogenicity.

## Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life in high concentrations.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low 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:** Phenylacetic Acid
- **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 (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.