

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Phenylacetic acid  
 Product Number : 78490  
 Brand : Fluka  
 Company : Sigma-Aldrich Canada, Ltd  
 2149 Winston Park Drive  
 OAKVILLE ON L6H 6J8  
 CANADA  
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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : PAA  
 α-Tolylic acid  
 Benzeneacetic acid  
 Formula : C<sub>8</sub>H<sub>8</sub>O<sub>2</sub>  
 Molecular Weight : 136.15 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Phenylacetic acid</b>			
103-82-2	203-148-6	-	-

**3. HAZARDS IDENTIFICATION****Emergency Overview**

**Other hazards which do not result in classification**  
 Stench.

**WHMIS Classification**

D2B Toxic Material Causing Other Toxic Effects Moderate skin irritant  
 Moderate respiratory irritant  
 Moderate eye irritant

**HMIS Classification**

**Health Hazard:** 2  
**Flammability:** 1  
**Physical hazards:** 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. Causes skin irritation.

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**Eyes** Causes eye irritation.  
**Ingestion** May be harmful if swallowed.

**4. FIRST AID MEASURES****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING MEASURES****Flammable properties**

Flash point 132 °C (270 °F)  
 Ignition temperature no data available

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

**Environmental precautions**

Do not let product enter drains.

**Methods for cleaning up**

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage**

Keep container tightly closed in a dry and well-ventilated place.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves.

**Eye protection**

Safety glasses

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form crystalline  
 Colour beige  
 Odour Stench.  
 unpleasant

**Safety data**

pH no data available  
 Melting point 76 - 78 °C (169 - 172 °F)  
 Boiling point 265 °C (509 °F)  
 Flash point 132 °C (270 °F)  
 Ignition temperature no data available  
 Lower explosion limit no data available  
 Upper explosion limit no data available  
 Vapour pressure 1 hPa (1 mmHg) at 97 °C (207 °F)  
 Density 1.081 g/mL at 25 °C (77 °F)  
 Water solubility ca.15 g/l  
 Partition coefficient: log Pow: 1.37 - 1.43  
 n-octanol/water

**10. STABILITY AND REACTIVITY****Storage stability**

Stable under recommended storage conditions.

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**Materials to avoid**  
 Strong oxidizing agents, Strong bases, Strong reducing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - 2,250 mg/kg  
 LD50 Dermal - rabbit - > 5,000 mg/kg

**Irritation and corrosion**

Eyes - rabbit - Moderate eye irritation - 24 h

**Sensitisation**

no data available

**Chronic exposure**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Developmental Toxicity - rat - Oral**

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.

**Signs and Symptoms of Exposure**

Nausea, Dizziness, Headache, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. Causes skin irritation.  
**Eyes** Causes eye irritation.  
**Ingestion** May be harmful if swallowed.

**Additional Information**

RTECS: AJ2430000

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

no data available

**Ecotoxicity effects**

Toxicity to fish LC50 - other fish - 1,273 mg/l - 96 h

**Further information on ecology**

no data available

**13. DISPOSAL CONSIDERATIONS**

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**Product**  
 Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 3335 Class: 9  
 Proper shipping name: Aviation regulated solid, n.o.s. (Phenylacetic acid)  
 Marine pollutant: No  
 Poison Inhalation Hazard: No

**IMDG**

Not dangerous goods

**IATA**

UN-Number: 3335 Class: 9  
 Proper shipping name: Aviation regulated solid n.o.s. (Phenylacetic acid)

**15. REGULATORY INFORMATION****DSL Status**

All components of this product are on the Canadian DSL list.

**WHMIS Classification**

D2B Toxic Material Causing Other Toxic Effects Moderate skin irritant  
 Moderate respiratory irritant  
 Moderate eye irritant

**16. OTHER INFORMATION****Further information**

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