



## MATERIAL SAFETY DATA SHEET

### SECTION 1. Chemical Product and Company Identification 3,4-Dihydroxyphenyl ethanol

**Product Code:** 10597-60-1 , **Reference #:** 70604

**Product Name:** 3,4-Dihydroxyphenyl ethanol

**CAS Number:** 10597-60-1

**Chemical Family:** Inhibitor

**Synonyms**

4-(2-hydroxyethyl)-1,2-benzenediol;

Ba2774;

3-Hydroxytyrosol

**Manufacturer Name and Address:**

Cayman Chemical Company  
1180 E. Ellsworth Rd.

Ann Arbor, MI. 48108

Cayman Chemical  
Company

Cayman Chemical  
Company

**Telephone Numbers:**

(800)364-9897

(734)971-3335

**Dates:**

Date Entered:  
06/25/2003

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### SECTION 2. Composition/Information on Ingredients 3,4-Dihydroxyphenyl ethanol

**Hazardous Components (Specific Chemical Identity/Common Name)**

**Name:** 3,4-Dihydroxyphenyl ethanol

**CAS #:** 10597-60-1

**OSHA PEL:** No data.

**Percentage:** 5.0 %

**ACGIH TLV:** No data.

**Name:** Ethyl alcohol

**CAS #:** 64-17-5

**OSHA PEL:** 8H TWA:1000ppm (1900 mg/m3)

**Percentage:** 95.0 %

**ACGIH TLV:** No data.

### SECTION 3. Hazards Identification 3,4-Dihydroxyphenyl ethanol

**Emergency Overview**

No data available.

**Route(s) of Entry:** Inhalation? Yes , Skin? Yes , Eyes? Yes , Ingestion? Yes , Other: Injection

**Potential Health Effects (Acute and Chronic)**

Contact may cause skin or eye irritation.

Material is irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

Repeated exposure may cause skin dryness or cracking.

Vapors may cause drowsiness and dizziness.

The toxicological properties of this compound have not been fully evaluated.

**Carcinogenicity:** NTP? No , IARC Monographs? No , OSHA Regulated? No

**Carcinogenicity/Other Information**

No data available.

**Signs and Symptoms Of Exposure**

Irritating to the skin, eyes, nose, throat, and respiratory tract.

**SECTION 4. First Aid Measures**  
**3,4-Dihydroxyphenyl ethanol****Emergency and First Aid Procedures**

If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.

In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**Note to Physician**

No data available.

**Medical Conditions Generally Aggravated By Exposure**

No data available.

**SECTION 5. Fire Fighting Measures**  
**3,4-Dihydroxyphenyl ethanol**

**Flash Pt:** 62.00 F **Method Used:** See note below

**Explosive Limits:** LEL: 3.3% UEL: 19%

**Extinguishing Media**

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires involving this material.

**Fire Fighting Instructions**

As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Note: Flammable as diluted in ethanol.

**Flammable Properties and Hazards**

Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.

Container explosion may occur under fire conditions.

Emits toxic fumes under fire conditions.

Flammable liquid.

Vapors can travel to a source of ignition and flash back.

**Hazardous Combustion Products**

carbon dioxide

carbon monoxide

## SECTION 6. Accidental Release Measures 3,4-Dihydroxyphenyl ethanol

### Steps To Be Taken In Case Material Is Released Or Spilled

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.  
After removal, ventilate contaminated area and flush thoroughly with water.

## SECTION 7. Handling and Storage 3,4-Dihydroxyphenyl ethanol

### Hazard Label Information:

Avoid contact with skin and eyes. Do not reuse this container.  
Use with adequate ventilation. Wash thoroughly after handling.

### Precautions To Be Taken in Handling

Avoid contact with eyes, skin, and clothing.  
Do not reuse this container.  
Keep away from sources of ignition.  
Use with adequate ventilation.

Wash thoroughly after handling.

### Precautions To Be Taken in Storing

Store at correct temperature.

### Other Precautions

No data available.

### Work/Hygienic/Maintenance Practices

Do not take internally.  
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.  
Wash thoroughly after handling.

## SECTION 8. Exposure Controls/Personal Protection 3,4-Dihydroxyphenyl ethanol

### Protective Equipment Summary - Hazard Label Information

Eye wash station in work area    Lab coat    Latex disposable gloves  
Safety glasses    Safety shower in work area    Vent Hood

### Respiratory Equipment (Specify Type)

No data available.

### Eye Protection

Safety glasses

### Protective Gloves

Latex disposable gloves

### Other Protective Clothing

Lab coat

### Engineering Controls (Ventilation etc.)

Good general ventilation should be sufficient to control airborne levels.

## SECTION 9. Physical and Chemical Properties 3,4-Dihydroxyphenyl ethanol

<b>Physical States:</b>	<input type="checkbox"/> Gas , <input checked="" type="checkbox"/> Liquid , <input type="checkbox"/> Solid
<b>Boiling Point:</b>	No data.
<b>Melting Point:</b>	No data.
<b>Specific Gravity (Water = 1):</b>	No data.
<b>Density:</b>	No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	44.6 MM_HG at 20.0 C
<b>Vapor Density (vs. Air = 1):</b>	No data.
<b>Evaporation Rate (vs Butyl Acetate=1):</b>	No data.
<b>Solubility in Water:</b>	50 mg/ml* at 25.0 C
<b>Other Solubility Notes:</b>	*PBS pH 7.2, sol. in organic solvents
<b>Percent Volatile:</b>	No data.
<b>Saturated Vapor Concentration:</b>	No data.
<b>Viscosity:</b>	No data.
<b>Molecular Formula:</b>	C8H10O3
<b>Molecular Weight:</b>	154.20
<b>pH:</b>	No data.
<b>Appearance and Odor</b>	
A clear, colorless solution	

### SECTION 10. Stability and Reactivity 3,4-Dihydroxyphenyl ethanol

**Stability:** Unstable  Stable

**Conditions To Avoid - Instability**

No data available.

**Incompatibility - Materials To Avoid**

alkali metals

ammonia

oxidizing agents

peroxides

protect from moisture

**Hazardous Decomposition Or Byproducts**

carbon dioxide

carbon monoxide

**Hazardous Polymerization:** Will occur  Will not occur

**Conditions To Avoid - Hazardous Polymerization**

No data available.

### SECTION 11. Toxicological Information 3,4-Dihydroxyphenyl ethanol

The toxicological effects of this compound have not been thoroughly studied.

**Chronic Toxicological Effects**

No data available.

### SECTION 12. Ecological Information 3,4-Dihydroxyphenyl ethanol

Runoff from fire control or dilution water may cause pollution.

**SECTION 13. Disposal Considerations**  
**3,4-Dihydroxyphenyl ethanol**

**Waste Disposal Method**

Dispose in accordance with local, state and federal regulations.

**SECTION 14. Transport Information**  
**3,4-Dihydroxyphenyl ethanol**

**DOT Proper Shipping Name**

Ethyl alcohol

**DOT Hazard Class:** 3

**DOT Hazard Label:** FLAMMABLE LIQUID

**UN/NA Number:** 1170

**Additional Transport Information**

Transport in accordance with local, state, and federal regulations.

**SECTION 15. Regulatory Information**  
**3,4-Dihydroxyphenyl ethanol**

Regulatory information on this product is not available.

**SECTION 16. Other Information**  
**3,4-Dihydroxyphenyl ethanol**

For research use only, not for human or veterinary clinical use.

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