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# MATERIAL SAFETY DATA SHEET

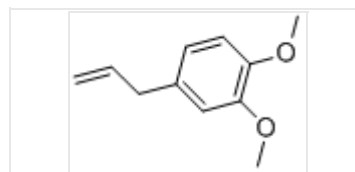
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## Product Identification

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### 【Product Name】

Methyl eugenol

### 【Synonyms】

1-(3,4-dimethoxyphenyl)-2-propene  
1,2-Dimethoxy-4-allylbenzene  
1,3,4-Eugenol methyl ether  
1-Allyl-3,4-dimethoxybenzene  
4-Allyl-1,2-dimethoxybenzene  
4-Allylveratrole

### 【CAS】

93-15-2

### 【Formula】

C<sub>11</sub>H<sub>14</sub>O<sub>2</sub>

### 【Molecular Weight】

178.23

**【EINECS】**

202-223-0

**【RTECS】**

CY2450000

**【RTECS Class】**

Agricultural Chemical and Pesticide; Tumorigen; Mutagen; Primary Irritant

**【Beilstein/Gmelin】**

1910871

**【Beilstein Reference】**

4-06-00-06337

**【EC Class】**

harmful

## Physical and Chemical Properties

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**【Appearance】**

Clear colorless to pale yellow liquid with a spicy earthy odor.

**【Solubility in water】**

500 mg/L

**【Melting Point】**

-4

**【Boiling Point】**

255

**【Vapor Pressure】**

0.027 (25 C)

**【Density】**

1.055 g/cm<sup>3</sup> (15 C)

**【Partition Coefficient】**

2.97

**【Heat Of Vaporization】**

47.2 kJ/mol

**【Heat Of Combustion】**

-6109 kJ/mol

**【Usage】**

Insect attractant, flavoring agent.

**【Vapor Density】**

6.1

**【Refractive Index】**

1.53191 (15.3 C)

## First Aid Measures

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**【Ingestion】**

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**【Inhalation】**

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**【Skin】**

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**【Eyes】**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

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## Handling and Storage

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### **【Storage】**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### **【Handling】**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

## Hazards Identification

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### **【Inhalation】**

May cause respiratory tract irritation.

### **【Skin】**

May cause skin irritation.

### **【Eyes】**

May cause eye irritation.

### **【Ingestion】**

May cause irritation of the digestive tract. May be harmful if swallowed.

### **【EC Risk Phrase】**

R 22 36/38

### **【EC Safety Phrase】**

S 26 36/37/39

### **【UN (DOT)】**

2810

## Exposure Controls/Personal Protection

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### **【Personal Protection】**

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

### **【Respirators】**

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

### **【Exposure Effects】**

local analgesia may occur. Coma and seizures have developed after large doses. Permanent local anesthesia has been reported after dermal application. Ataxia has occurred in dogs given 5 grams of eugenol.

### **【Poison Class】**

4

## **Fire Fighting Measures**

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### **【Flash Point】**

87

### **【Fire Fighting】**

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Extinguishing media: Use agent most appropriate to extinguish fire. Cool containers with flooding quantities of water until well after fire is out. In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

### **【Fire Potential】**

This chemical is combustible.

## **Accidental Release Measures**

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### **【Small spills/leaks】**

Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, using the appropriate protective equipment. Remove all sources of ignition. Provide ventilation.

## Stability and Reactivity

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### **【Incompatibilities】**

Oxidizing agents.

### **【Stability】**

Stable under normal temperatures and pressures.

### **【Decomposition】**

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

## Transport Information

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### **【UN Number】**

N/A

### **【HS Code】**

2909 30 90