Eugenol is an allyl chain-substituted guaiacol (2-methoxyphenol). It appears as a clear or pale yellow oily liquid. Besides cloves, it can also be extracted from cinnamon and other aromatic spices. It is slightly soluble in water and soluble in organic solvents. The medical field makes use of Eugenol. Its properties make it a good local antiseptic and analgesic. It is used in dentist offices to make zinc-oxide eugenol paste for temporary fillings. It also makes a good local anaesthetic for temporary relief from toothache pain. It is used in the production of isoeugenol for the manufacture of vanillin which is an artificial substitute for vanilla.
Eugenol, allyl chain-substituted guaiacol (2-methoxyphenol), is a clear to pale yellow oily liquid extracted from certain essential oils especially from clove oil and cinnamon. It is very slightly soluble in water and soluble in organic solvents. It has a spicy odor and taste of clove. Eugenol is used in perfumeries, flavorings, essential oils and in medicine (local antiseptic and analgesic). It is used in the production of isoeugenol for the manufacture of vanillin. Eugenol has wide application in dentistry for analgesic and antiseptic properties. Eugenol derivatives or methoxyphenol derivatives in wider classification are used in perfumery and flavoring. They are used in formulating insect attractants and UV absorbers, analgesics, biocides and antiseptics. They are also used in manufacturing stabilizers and antioxidants for plastics and rubbers.

### SALES SPECIFICATION

<table>
<thead>
<tr>
<th>APPEARANCE</th>
<th>Pale yellow liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSAY</td>
<td>98.0% min</td>
</tr>
<tr>
<td>REFRACTIVE INDEX</td>
<td>1.540 - 1.542</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>1.065 - 1.07</td>
</tr>
</tbody>
</table>

### TRANSPORTATION

**HAZARD CLASS**: Not regulated

### PACKING

### SAFETY INFORMATION

**HAZARD OVERVIEW**

OSHA Hazards: Target Organ Effect, Harmful by ingestion., Corrosive. May cause allergic skin reaction. Air sensitive. May be harmful if swallowed. Causes eye, skin, and respiratory tract irritation. Target Organs: Kidney, Central nervous system, Lungs, Gastrointestinal tract, skin.

**GHS**

**SIGNAL WORD**: Warning

**PICTOGRAMS**

**HAZARD STATEMENTS**

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H402 Harmful to aquatic life.

**PRECAUTIONARY STATEMENTS**

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P280 Wear protective gloves.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

**EC DIRECTIVES**

**HAZARD CODES**

- Xn Harmful

**RISK PHRASES**

- 22 Harmful if swallowed
- 36/37/38 Irritating to eyes, respiratory system and skin
- 42/43 May cause sensitization by inhalation and skin contact

**SAFETY PHRASES**

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
36 Wear suitable protective clothing