## TECHNICAL DATA SHEET

**Item Code**: 1033

**Item Name**: CLOVE LEAF OIL

**Printed Date**: 20/08/2013

**Date**: 12/08/2013

**Version**: 01

<table>
<thead>
<tr>
<th><strong>CAS #</strong></th>
<th>8000-34-8¹ / 84961-50-2²</th>
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<td><strong>EINECS #</strong></td>
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**BOTANICAL NAME**: Eugenia caryophyllus

**Product Description**: Pale yellow to greenish yellow liquid with characteristic spicy odour.

**Origin**: Obtained by steam distillation from leaf/twig of Eugenia caryophyllus

### PHYSICO-CHEMICAL PROPERTIES:

**Appearance**: Pale yellow to yellow

**Physical Status**: Liquid

**Flash Point (Closed cup) °C**: >93.33°C

**Refractive Index**: 1.525 – 1.535 @ 20°C

**Relative Density**: 1.025 – 1.046 @ 25°C

**Optical Rotation**: N/A

**Solubility in Alcohol**: 1:9 in 90% Alcohol

**Solubility in Water**: Insoluble

**Assay by GC/MS (%)**:
- Eugenol
- Caryophyllene
- Pinenes

**Shelf Life**: 12 months with proper storage conditions.

**Legislation**: Natural

**Stability**: Avoid strong acids, strong bases & all oxidizing agents.

### HANDLING PRECAUTION

Handle with adequate ventilation. Avoiding skin & eye contact. Use goggles or face shield safety gloves and wear protective clothing.

### PACKING & STORAGE

Should be stored in cool, dry, well ventilated places in full, tightly sealed containers. Protected from light & source of ignition. Packed in Aluminium, HDPE Food Grade Cans, MS Coated Drums, GI Drums. Avoid long contact with Iron, heat and light.

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¹. United States National Library of Medicines (US)