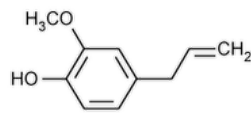


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Eugenol



C₁₀H₁₂O₂ 164.20
Phenol, 2-methoxy-4-(2-propenyl)-;
4-Allyl-2-methoxyphenol CAS RN®: 97-53-0; UNII: 3T8H1794QW.

DEFINITION
Eugenol is obtained from clove oil and from other sources.

IDENTIFICATION

Change to read:

- A. ▲ [SPECTROSCOPIC IDENTIFICATION TESTS \(197\)](#), *Infrared Spectroscopy: 197F* ▲ (CN 1-MAY-2020)

IMPURITIES

• **HYDROCARBONS**

Analysis: Dissolve 1 mL in 20 mL of 0.5 N sodium hydroxide in a 50-mL stoppered tube, add 18 mL of water, and mix.
Acceptance criteria: A clear mixture results immediately, but it may become turbid when exposed to air.

• **LIMIT OF PHENOL**

Analysis: Shake 1 mL with 20 mL of water. Filter, and add 1 drop of ferric chloride TS to 5 mL of the clear filtrate.
Acceptance criteria: The mixture exhibits a transient grayish-green color but not a blue or violet color.

SPECIFIC TESTS

- [SPECIFIC GRAVITY \(841\)](#): 1.064–1.070
- [DISTILLING RANGE, Method II\(721\)](#): NLT 95% distills from 250°–255°
- [REFRACTIVE INDEX \(831\)](#): 1.540–1.542 at 20°
- **SOLUBILITY IN 70% ALCOHOL**: One volume dissolves in 2 volumes of 70% alcohol.

ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Preserve in tight, light-resistant containers.
- [USP REFERENCE STANDARDS \(11\)](#)
[USP Eugenol RS](#)

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
EUGENOL	Documentary Standards Support	SM22020 Small Molecules 2

Chromatographic Database Information: [Chromatographic Database](#)

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