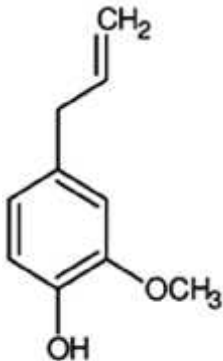


PRODUCT SPECIFICATION

Eugenol (more than 99% pure)

A. Product:	Eugenol USP
B. Specification:	
1. Grade/Purity	Food / Dental Grade (More than 99.9% pure Eugenol)
2. Synonyms	Eugenic Acid, Cryophilic Acid
3. Chemistry Name	2-methoxy-4-(2-propenyl)phenol or 4allyl-2-methoxyphenol
4. Empirical Formula	C ₁₀ H ₁₂ O ₂
5. Structure Formula	 Eugenol
6. Molecular Weight	164
7. Physical State	Mobile Liquid
8. Flash Point	100
C. Classification:	
1. CAS No.	97-53-0
2. Food and Dental Grade Femma No.	2467
3. NAFTA/HS No.	2909.50.4010
4. EINECS Code	202-589-1
5. FDA No.	184.1257
D. Typical Properties:	
1. Appearance	Colourless to pale yellow
2. Odor	Spicy and pungent taste and odor of Cloves
3. Eugenol Purity is detected by GC-MS	More than 99.9% pure
4. Relative Density (25/25°C)	1.058-1.068
5. Specific Gravity at 20°C	1.0664
6. Refractive Index at 20°C	1.5410
7. Boiling Point	255°C
8. Melting Point	9.2 °C - 9.1 °C
9. Soluble In (20°C)	Alcohol, Chloroform, Ether, Glacial, Volatile Oil
10. Insoluble In	Water
11. Safety (refer to MSDS)	Non-Hazardous Substance