



ECO ORGANICS

An ISO 9001 : 2008 Certified Company

- Flavours
- Fragrances
- Ingredients

TECHNICAL DATA SHEET EUGENOL

Product Name	Eugenol
Chemical Name	2-Methoxy-4-(2-propenyl)phenol
Synonyms	4-Allylguaiacol; 4-Allyl-2-methoxyphenol; Eugenenic Acid
CAS No.	97-53-0
EINECS / EC No.	202-589-1
FEMA No.	2467
Molecular Formula	C ₁₀ H ₁₂ O ₂
Molecular Weight	164.20 g/mol
Botanical Source	Syzygium aromaticum (Clove)
Manufacturing Route	Steam Distillation & Rectification of Clove Oil
Appearance	Colourless to pale yellow liquid; tends to darken and thicken on prolonged exposure to air
Odour	Spicy, sweet, clove-like, characteristic eugenol odour
Assay (Eugenol Content)	99.0% min. (by GC)
Specific Gravity (25°C)	1.0590 - 1.0700
Refractive Index (20°C)	1.5400 - 1.5420
Boiling Point	Approx. 254°C (literature)
Melting Point	Approx. -7°C to -9°C (literature)
Flash Point	Approx. 104°C, Closed Cup (literature – supplier COAs report a range of ~93–140°C; verify against your own batch testing)
Solubility in Water	Slightly soluble
Solubility in Alcohol/Oils	Miscible with alcohol, ether, chloroform, and most fixed oils and organic solvents
Storage Condition	Store in a tightly closed container with minimum headspace at 15–35°C, in a dry place, protected from direct sunlight and metal contact (iron/zinc catalyse oxidation)
Shelf Life	36 months from date of manufacture (typical – please verify against your QC data), in original unopened packaging
Packing	As per customer requirement / standard drum packing
Application	Flavour & Fragrance ingredient – clove/spice-type flavours, perfumery, and as a chemical intermediate (e.g., for isoeugenol, vanillin). Not for pharmaceutical/API use.

Note: Values marked “(literature)” are typical published physical constants; all other values are per the product specification. Please refer to the accompanying Certificate of Analysis (COA) for batch-specific results.

Date: 29 September, 2026

Authorized Signatory



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For Eco Organics

Partner

(Company Seal)