

SPECIFICATION

Product Name: Clove Leaf Extract Powder 98%-Eugenol
Chemical Formula: $C_{10}H_{12}O_2$
CAS Number: 97-53-0
Molecular Weight: 164.20 g/mol
Appearance: Brown colour powder
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
pH of w/v aq. Solution	-	5.35	4 – 7
Loss on drying	%	3.40 %	NMT 6%
Extraction value of 1% solution in methanol	%	84.55%	NLT 80%
Particle size	-	Complies	NLT 80% pass through 70 mesh
Ash content	%	98%-Eugenol	-
Assay (on dried basis)- gingerols content	-	Positive	Should be present

Microbiological Test

Total Aerobic Bacteria	cfu/g	Complies	NMT- 1000 cfu/g
Yeast/ Molds	cfu/g	Complies	NMT- 100 cfu/g
E. coli	-	Absent	Absent
Salmonella	-	Absent	Absent
Staphylococcus aureus	-	Absent	Absent
Pseudomonas aeruginosa	-	Absent	Absent

Physical Properties

- Solubility: Insoluble in water. Soluble in ethanol. Soluble in acetone. Soluble in ether. Soluble in oil.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry place at 15–25°C, away from direct sunlight, heat, and moisture. Keep the container tightly closed in the original packaging and protect from air exposure to maintain product quality and stability.

Applications

- Use: Widely used as a natural flavoring, fragrance, and herbal ingredient in pharmaceutical, food, cosmetic, and nutraceutical formulations. It is valued for its antioxidant, antimicrobial, and traditional oral care applications and is commonly used in dental care products, herbal supplements, and personal care formulations.
- Dosage: Depends on the intended formulation, extract concentration, and application. It should be used according to product formulation requirements and applicable regulatory guidelines or as directed by a qualified healthcare professional.

Packaging

- Standard Packing: 25 Kgs pp bag with inner liner and 1 Kgs or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.