Clove Oil Extract (Syzygium aromaticum) – Eugenol 75–98%

Syzygium aromaticum · Myrtaceae

DOCUMENT	PRODUCT CODE	DOCUMENT NO.	REVISION	PRODUCT FORM
Technical Data Sheet	AP1177	TDS-AP1177	1.0 · 24 October 2026	Essential Oil Fraction

1 Product description

Clove extract is produced from the flower bud of Syzygium aromaticum (Myrtaceae family) and supplied as an essential-oil fraction, standardized to Eugenol. Available grades: Typical 75–98%. Typical sourcing: Indonesia, Madagascar, Tanzania. Intended for B2B formulation in nutraceuticals & supplements.

2 Identification

Botanical source	*Syzygium aromaticum* (Myrtaceae)
Common name(s)	Clove
Plant part used	Flower
Typical origin	Indonesia, Madagascar, Tanzania
Marker compound	Eugenol (Monoterpenes & aromatic volatiles)
CAS number	97-53-0
Manufacturing process	Steam distillation and/or fractional distillation
Standardisation	75–98% (GC)
Assay method	GC
Pharmacopoeia & standards	Ph. Eur. (EP), ISO standard

3 Specification

PARAMETER	SPECIFICATION	METHOD
Appearance	Colourless to pale yellow mobile liquid	Visual
Odour	Characteristic	Organoleptic
Identification	Conforms (GC fingerprint vs. reference)	GC / GC-MS
Content – Eugenol	Not more than 98% (typical 75–98%)	GC
Relative density (20 °C)	Report (lot value on CoA)	ISO 279 / USP ‹841›
Refractive index (20 °C)	Report (lot value on CoA)	ISO 280 / USP ‹831›
Optical rotation (20 °C)	Report (lot value on CoA)	ISO 592
Flash point	Expected below 60 °C; measured value on CoA	ISO 3679
Residual solvents	None used (distillation)	GC-HS
Lead (Pb)	≤ 3.0 mg/kg	ICP-MS
Arsenic (As)	≤ 2.0 mg/kg	ICP-MS
Cadmium (Cd)	≤ 1.0 mg/kg	ICP-MS
Mercury (Hg)	≤ 0.1 mg/kg	ICP-MS
Pesticide residues	Complies with USP ‹561› and Regulation (EC) No 396/2005	GC-MS/MS, LC-MS/MS
Microbiology	Not applicable (anhydrous product); tested on request	—

Limits above are the standard release specification for this product class. Each lot is released against its Certificate of Analysis, which is the governing document and is available on request.

4 Grades & pack sizes

GRADE	SKU PREFIX	PACK SIZES
Typical 75–98%	AP1177-T7598	Sample (50 g) · 250 g · 1 Kg · 5 Kg · 25 Kg

5 Packaging

- Samples: amber glass bottle with tamper-evident closure.
- Up to 1 Kg: nitrogen-flushed amber glass, aluminium or HDPE bottle. UN-approved packaging for dangerous goods.
- 5 Kg and above: HDPE jerrycan or lacquered steel drum (UN-approved).
- Packaging may vary by lot and is stated on the packing list.

6 Storage & shelf life

- Shelf life: 24 months from date of manufacture in the original, unopened packaging.
- Store tightly closed below 25 °C, protected from light and heat.
- After opening, blanket with nitrogen and use promptly to limit oxidation.

7 Applications

Industries	Nutraceuticals & Supplements
Formulation focus	Immune Support, Oral & Dental Care
Traditional systems	African traditional

Use levels depend on the finished product and the target market. The customer is responsible for establishing safe and permitted use levels and for any claims made on finished products.

8 Regulatory & compliance

- Pharmacopoeia / standard references: Ph. Eur. (EP), ISO standard.
- Allergen information: not derived from a source listed in Annex II of Regulation (EU) No 1169/2011.
- Regulatory status for food, supplement, cosmetic or pharmaceutical use (e.g. EU novel food, US NDI/GRAS, FSSAI) must be confirmed by the customer for the intended market and use.

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