

Clove Essential Oil

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GC-MS COMPOSITION REPORT

Clove Bud Essential Oil (Syzygium aromaticum) — Origin: Indonesia

Sample	Clove Bud (Syzygium aromaticum), Essential Oil	Internal Ref	VA-CLO
CAS Number	8000-34-8	Method	Qualitative GC-MS
Total Identified	98.68%	Result	APPROVED — meets expected profile

Conclusion: No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine essential oil of Clove Bud (Syzygium aromaticum). Independent third-party analysis; full lab certificate available on request.

PRIMARY CONSTITUENTS	AREA %	CHEMICAL FAMILY TOTALS	AREA %
Eugenol	73.57%	Phenols	73.89%
Eugenyl acetate	12.82%	Esters	13.03%
beta-Caryophyllene	7.95%	Sesquiterpenes	9.49%
		Monoterpenes	1.59%
		Ethers	0.55%
		Other	1.35%

#	RT	AREA %	COMPOUND	CHEMICAL FAMILY
1	4.87	0.03%	Furfural	Furan
2	10.28	0.03%	Myrcene	Monoterpene
3	11.92	1.56%	Limonene	Monoterpene
4	15.18	0.02%	Linalool	Monoterpenol
5	19.27	0.18%	Methyl salicylate	Phenolic Ester
6	22.23	0.16%	Chavicol	Phenylpropanoid
7	26.21	0.06%	alpha-Cubebene	Sesquiterpene
8	26.78	73.57%	Eugenol	Phenylpropanoid

9	27.44	0.21%	alpha-Copaene	Sesquiterpene
10	28.59	0.08%	Methyl eugenol	Phenylpropanoid
11	29.24	7.95%	beta-Caryophyllene	Sesquiterpene
12	29.56	0.02%	Isocaryophyllene	Sesquiterpene
13	30.44	0.08%	(E)-Isoeugenol	Phenylpropanoid
14	30.67	1.08%	alpha-Humulene	Sesquiterpene
15	31.41	0.03%	trans-Cadina-1(6),4-diene	Sesquiterpene
16	32.34	0.02%	alpha-Selinene	Sesquiterpene
17	32.86	0.03%	(E,E)-alpha-Farnesene	Sesquiterpene
18	33.33	12.82%	Eugenyl acetate	Phenylpropanoid Ester
19	33.82	0.02%	trans-Cadina-1,4-diene	Sesquiterpene
20	34.61	0.07%	delta-Guaiene	Sesquiterpene
21	35.41	0.04%	Caryophyllenyl alcohol	Monoterpenol
22	35.66	0.55%	Caryophyllene oxide	Sesquiterpene Ether
23	36.51	0.02%	Ledol	Sesquiterpenol
24	37.46	0.02%	1,10-di-epi-Cubenol	Sesquiterpenol
25	39.04	0.03%	allo-Aromadendrene epoxide	Sesquiterpene Ester

Analysis performed by an independent, ISO-accredited essential-oil testing laboratory using qualitative GC-MS (client method SOP.T.01). Clove Essential Oil (cloveessentialoil.com) private-labels this oil from a US-based wholesale supplier; the data above reports the supplier batch we bottle. This document is informational and makes no medical claims. These statements have not been evaluated by the FDA.