AROMATICS DATA

GC-MS BATCH SUMMARY

Batch MLS-119

November 13, 2026

Melissa Essential Oil

Melissa officinalis

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
June 1, 2024	Steam Distilled	Certified Organic	Bulgaria

TOP 5 COMPONENTS

of 96 measured

geranial	Aldehyde	**26.68%**
neral	Aldehyde	**18.82%**
β-caryophyllene	Sesquiterpene	**15.59%**
germacrene D	Sesquiterpene	**7.24%**
geranyl acetate	Ester	**4.73%**

Full composition · 96 components across 11 families

Aldehyde	**49.50%**
geranial	26.68%
neral	18.82%
citronellal	2.45%
isogeranial · (E)-isocitral	0.72%
isoneral	0.55%
nonanal	0.18%
isogeranial · exo-isocitral	0.05%
2,6-dimethyl-5-heptenal	0.02%
2-hexenal	0.01%
myrtenal	0.01%

Every batch is GC-MS tested by an independent lab. This report is provided for full transparency by Aromatics International.

Verify this batch: data.aromatics.com/products/melissa-essential-oil#batch=MLS-119

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2-decanal	0.01%
Sesquiterpene	**29.62%**
β-caryophyllene	15.59%
germacrene D	7.24%
α-caryophyllene	1.13%
δ-cadinene	1.09%
α-copaene	0.84%
(Z,E)-α-farnesene	0.71%
β-elemene	0.44%
(E,E)-α-farnesene	0.40%
β-cubebene	0.34%
(E)-β-farnesene	0.33%
β-copaene	0.33%
γ-cadinene	0.31%
γ-muurolene	0.18%
allo-aromadendrene	0.17%
9-epi-caryophyllene	0.12%
α-cadinene	0.09%
β-caryophyllene · cis-caryophyllene	0.07%
δ-elemene	0.05%
(E)-cadina-1,4-diene	0.04%
α-cubebene	0.04%
(Z)-cadina-1(6),4-diene	0.04%
β-selinene	0.03%
(E)-α-bergamotene	0.02%
δ-amorphene	0.02%
Ester	**6.38%**
geranyl acetate	4.73%
methyl geranate	0.62%

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methyl citronellate	0.45%
neryl acetate	0.40%
(Z)-muurola-4(14),5-diene	0.10%
methyl salicylate	0.04%
geranyl formate	0.02%
(Z)-3-hexenyl acetate	0.02%
Monoterpenol	**3.99%**
geraniol	1.82%
nerol	0.71%
linalool	0.67%
citronellol	0.37%
τ-cadinol	0.19%
α-terpineol	0.09%
(E)-carveol	0.07%
neoisopulegol	0.05%
3-hexen-1-ol	0.02%
Monoterpene	**2.32%**
(E)-β-ocimene	1.55%
limonene (d)	0.26%
β-myrcene	0.19%
(Z)-β-ocimene	0.14%
alloocimene	0.05%
sabinene	0.04%
α-pinene	0.03%
γ-terpinene	0.02%
β-pinene	0.01%
p-cymene	0.01%
terpinolene	0.01%
camphene	0.01%

Sesquiterpenol	**1.78%**
α-cadinol	0.43%
1-octen-3-ol	0.33%
α-muurolol · α-muurolene	0.33%
germacrene D-4-ol	0.21%
τ-muurolol	0.20%
α-muurolol	0.06%
1-decanol	0.06%
3-octanol	0.04%
epi-cubenol	0.04%
allohimachalol	0.03%
1,10-epi-cubenol	0.03%
(E)-nerolidol	0.01%
junenol	0.01%
Ketone	**1.52%**
6-methyl-5-hepten-2-one	1.49%
β-damascenone	0.03%
Oxide	**1.41%**
caryophyllene oxide	1.07%
α-pinene oxide	0.12%
rosefuran oxide	0.07%
(Z)-rose oxide	0.05%
humulene epoxide 2	0.05%
(E)-rose oxide	0.03%
linalool (Z)-oxide	0.01%
allo-aromadendrene epoxide	0.01%
Other	**0.49%**
1-undecyne	0.28%
neo-verbanol	0.09%

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geranate	0.06%
phenylacetaldehyde	0.02%
octane	0.02%
nonacosane	0.01%
1-hexanol	0.01%
Diterpenol	**0.01%**
phytol	0.01%
Furan	**0.01%**
perillene	0.01%