AROMATICS DATA

GC-MS BATCH SUMMARY

Batch HEB-110

November 29, 2026

Helichrysum Bracteiferum Essential Oil

Helichrysum bracteiferum

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
September 15, 2026	**Steam Distilled**	**Wildcrafted**	**Madagascar**

TOP 5 COMPONENTS

of 93 measured

1,8-cineole	Oxide	**27.33%**
β-pinene	Monoterpene	**10.13%**
α-caryophyllene	Sesquiterpene	**8.00%**
β-caryophyllene	Sesquiterpene	**5.95%**
δ-guaiene	Sesquiterpene	**5.04%**

Batch HEB-110 comes from Madagascar, where *Helichrysum bracteiferum* grows wild in its native habitat. The aerial parts are carefully harvested by hand and steam distilled, capturing the plant's distinctive fresh, camphoraceous aroma with layers of green, woody, and softly balsamic notes.

This batch was distilled in September 2026 and reflects the beautiful aromatic complexity of this Madagascar helichrysum. Its fresh, penetrating opening gradually gives way to a deeper, earthy character.

As with every essential oil we offer, batch HEB-110 has been independently GC-MS tested to identify its natural chemical components.

The complete GC-MS report and Certificate of Analysis are available to download, giving you a closer look at the chemistry of the oil in your bottle.

CHEMISTRY HIGHLIGHTS

Batch HEB-110 reveals an interesting balance of fresh, aromatic brightness and rich, woody depth. GC-MS analysis identified 93 individual components, reflecting the natural complexity of *Helichrysum bracteiferum*.

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The most abundant component is 1,8-cineole at 27.33%, contributing the oil's fresh, camphoraceous character. Beta-pinene follows at 10.13%, adding to its crisp, green aromatic quality.

Although 1,8-cineole is the leading individual component, sesquiterpenes are the largest chemical family at 34.4%. These compounds help create the oil's deeper, woody, and balsamic character. Two notable sesquiterpenes are alpha-caryophyllene at 8% and beta-caryophyllene at 5.95%.

Oxides account for 28.81% of the oil, primarily from 1,8-cineole, while monoterpenes contribute another 24.72%.

Looking across our previous batches of this species, 1,8-cineole has ranged from 21.8% to 31.51%, placing HEB-110 comfortably within that range. Smaller components, including linalool at 0.82% and caryophyllene oxide at 0.49%, add further detail to this batch's distinctive chemical fingerprint.

Together, these components create an oil with a bright, refreshing opening and a beautifully layered, woody foundation.

Full composition · 93 components across 8 families

Sesquiterpene	**34.40%**
α-caryophyllene	8.00%
β-caryophyllene	5.95%
δ-guaiene	5.04%
β-selinene	2.26%
aromadendrene	1.96%
γ-muurolene	1.52%
δ-elemene	1.48%
δ-cadinene	1.24%
germacrene D	1.15%
β-elemene	1.04%
β-copaene	0.81%
γ-cadinene	0.55%
α-copaene	0.54%
allo-aromadendrene	0.42%
α-gurjunene	0.31%

α-guaiene	0.29%
α-cubebene	0.24%
β-bourbonene	0.23%
α-ylangene	0.17%
α-amorphene	0.17%
(Z)-cadina-1(6),4-diene	0.16%
δ-amorphene	0.13%
isoledene	0.12%
β-gurjunene	0.11%
α-cadinene	0.10%
germacrene B	0.10%
(E)-cadina-1,4-diene	0.08%
zonarene	0.07%
β-bisabolene	0.06%
longifolene	0.05%
β-cubebene	0.03%
cadina-3,5-diene	0.02%
Oxide	**28.81%**
1,8-cineole	27.33%
allo-aromadendrene epoxide	0.62%
caryophyllene oxide	0.49%
humulene epoxide 2	0.22%
2,3-dehydro-1,8-cineole	0.13%
(E)-linalool oxide	0.02%
Monoterpene	**24.72%**
β-pinene	10.13%
α-pinene	4.24%
limonene (d)	3.38%
sabinene	1.58%

γ-terpinene	1.49%
p-cymene	0.99%
α-terpinene	0.87%
β-myrcene	0.82%
α-thujene	0.57%
terpinolene	0.36%
α-phellandrene	0.15%
camphene	0.08%
(E)-β-ocimene	0.06%
Monoterpenol	**5.81%**
terpinen-4-ol	2.56%
α-terpineol	1.57%
linalool	0.82%
δ-terpineol	0.40%
3-hexen-1-ol	0.09%
(Z)-p-Menth-2-en-1-ol	0.08%
lavandulol	0.06%
(E)-p-menth-2-en-1-ol	0.05%
p-cymen-8-ol	0.04%
(E)-pinocarveol	0.03%
borneol	0.03%
(E)-sabinene hydrate	0.02%
(E)-piperitol	0.02%
nerol	0.02%
fenchol	0.01%
myrtenol	0.01%
Sesquiterpenol	**2.12%**
spathulenol	0.59%
globulol	0.59%

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selin-11-en-4-ol	0.18%
longipinanol	0.14%
rosifoliol	0.12%
β-eudesmol	0.12%
allohimachalol	0.10%
1-octen-3-ol	0.08%
ledol	0.08%
maaliol	0.07%
elemol	0.05%
Other	**1.52%**
Caryophyllene<14-hydroxy-9-epi-(E)->	0.89%
1-octene	0.17%
Aristolochene<4,5-...di-epi->	0.11%
1-hexanol	0.06%
Muurola-4,10(14)-dien-1-...β-ol	0.06%
Germacra-4(15),5,10(14)-trie...1-α-ol	0.06%
Octen-1-ol<2E->	0.05%
Butanediol<2,3->	0.04%
Eudesmol<5-epi-7-epi-α->	0.03%
3-Hexanone	0.02%
octane	0.02%
2-methylbutyric acid	0.01%
Aldehyde	**0.14%**
nonanal	0.09%
benzaldehyde	0.05%
Ketone	**0.01%**
thuja-2,4(10)-diene	0.01%