AROMATICS DATA

GC-MS BATCH SUMMARY

Batch HSL-107

November 5, 2026

Helichrysum Splendidum Essential Oil

Helichrysum splendidum

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
November 28, 2023	Steam Distilled	Organically Grown	South Africa

TOP 5 COMPONENTS

of 96 measured

β-phellandrene	Monoterpene	17.36%
δ-cadinene	Sesquiterpene	11.73%
germacrene D	Sesquiterpene	7.44%
β-pinene	Monoterpene	6.65%
γ-cadinene	Sesquiterpene	6.10%

Batch HSL-107 comes from organically grown *Helichrysum splendidum* in South Africa, steam distilled in late November 2023. This beautiful helichrysum has a greener, more resinous character than its better-known relatives. Its fresh, herbaceous opening gradually softens into a warm, woody base, giving the oil an earthy, grounding presence.

South Africa is home to this distinctive species, and its aromatic profile reflects the character of the plant and its growing environment.

Every batch we bring in is independently GC-MS tested to verify its chemical composition and reveal its individual characteristics. The complete GC-MS report and certificate of analysis for HSL-107 are available to download here.

CHEMISTRY HIGHLIGHTS

GC-MS analysis of batch HSL-107 identified 96 components, with sesquiterpenes making up 48.88% of the oil, followed by monoterpenes at 28.60% and approximately 10% sesquiterpenols.

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β-Phellandrene is the leading constituent at 17.36%, followed by δ-cadinene at 11.73% and germacrene D at 7.44%. The cadinane-related compounds are especially well represented, including γ-cadinene (6.10%), α-muurolene (3.52%), α-cadinol (2.46%), and τ-muurolol (1.11%). Both α-cadinol and α-muurolene exceed the ranges previously recorded in our other batches, making them interesting features of this particular oil.

One of the most striking differences is the absence of 1,8-cineole. This constituent has appeared in three of our six analyzed *Helichrysum splendidum* batches, ranging from 0.81% to 20.99%. In HSL-107, the oxide fraction is just 0.15%, represented entirely by caryophyllene oxide.

Borneol (0.68%) and its related ester, bornyl acetate (0.39%), are also present in smaller amounts. Together, these details reveal the individuality of HSL-107 and illustrate just how much the chemistry of the same botanical species can vary from batch to batch.

Full composition · 96 components across 12 families

Sesquiterpene	**48.88%**
δ-cadinene	11.73%
germacrene D	7.44%
γ-cadinene	6.10%
bicyclogermacrene	3.93%
α-muurolene	3.52%
β-bourbonene	2.61%
β-elemene	2.14%
γ-muurolene	1.99%
β-caryophyllene	1.25%
δ-elemene	1.08%
α-cadinene	0.91%
α-copaene	0.88%
β-copaene	0.83%
β-selinene	0.70%
allo-aromadendrene	0.68%
(Z)-cadina-1(6),4-diene	0.59%
β-cubebene	0.37%
α-cubebene	0.37%

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α-caryophyllene	0.34%
(E)-cadina-1,4-diene	0.32%
aromadendrene	0.32%
α-calacorene	0.21%
11-α-h-himachala-1,4-diene	0.19%
dauca-5,8-diene	0.13%
α-gurjunene	0.12%
longicyclene	0.06%
α-ylangene	0.05%
(E,E)-α-farnesene	0.01%
sibirene	0.01%
Monoterpene	**28.60%**
β-phellandrene	17.36%
β-pinene	6.65%
α-pinene	1.83%
sabinene	0.85%
camphene	0.50%
(E)-β-ocimene	0.40%
β-myrcene	0.20%
terpinolene	0.17%
γ-terpinene	0.14%
α-terpinene	0.14%
α-phellandrene	0.12%
δ-2-carene	0.11%
α-thujene	0.07%
(Z)-β-ocimene	0.05%
bornylene	0.01%
Sesquiterpenol	**10.13%**
spathulenol	2.96%

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α-cadinol	2.46%
τ-muurolol	1.11%
cubebol	1.01%
epi-cubenol	0.64%
viridiflorol	0.58%
α-muurolol	0.56%
1,10-epi-cubenol	0.43%
globulol	0.15%
isospathulenol	0.12%
guaiol	0.04%
ledol	0.04%
β-costol	0.03%
Monoterpenol	**3.59%**
τ-cadinol	2.42%
borneol	0.68%
terpinen-4-ol	0.32%
linalool	0.05%
(E)-p-mentha-1(7),8-dien-2-ol	0.05%
(E)-sabinene hydrate	0.03%
(E)-p-menth-2-en-1-ol	0.02%
(E)-pinocarveol	0.02%
Ester	**2.04%**
(Z)-muurola-4(14),5-diene	0.99%
(Z)-muurola-3,5-diene	0.60%
bornyl acetate	0.39%
isoamyl angelate	0.04%
isoamyl isovalerate	0.01%
isoamyl acetate	0.01%

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Other	**1.55%**
28.53 muurola-4(14),5-diene<trans->	1.04%
Muurol-5-en-4-α-ol<cis->	0.16%
Germacra-4(15),5,10(14)-trien-1-α-ol	0.12%
trans-calamenen-10-ol	0.05%
cadalene	0.05%
oplopanone	0.03%
α-costol	0.03%
cis-lanceol	0.02%
2-methyl butyl isovalerate	0.01%
shyobunol	0.01%
callitrin	0.01%
phytone	0.01%
(E)-calamenene	0.01%
Ketone	**0.39%**
carvotanacetone	0.18%
camphor	0.12%
cryptone	0.07%
pinocarvone	0.01%
6-methyl-5-hepten-2-one	0.01%
Oxide	**0.15%**
caryophyllene oxide	0.15%
Diterpene	**0.11%**
cembrene	0.11%
Aldehyde	**0.08%**
pentadecanal	0.06%
phellandral	0.01%
nonanal	0.01%

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Phenol	**0.03%**
carvacrol	0.03%
Ether	**0.01%**
2-methylanisole	0.01%

REFRACTIVE INDEX @20°C	OPTICAL ROTATION @20°C
1.4957	**-9.34**

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/helichrysum-splendidum-oil#batch=HSL-107

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