AROMATICS DATA

GC-MS BATCH SUMMARY

Batch RRS-117

October 31, 2026

Rock Rose Essential Oil

Cistus ladanifer

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
August 20, 2024	**Steam Distilled**	**Certified Organic**	**Spain**

TOP 5 COMPONENTS		of 126 measured
α-pinene	Monoterpene	**25.12%**
camphene	Monoterpene	**6.57%**
terpinen-4-ol	Monoterpenol	**4.59%**
p-cymene	Monoterpene	**4.15%**
bornyl acetate	Ester	**3.61%**

Full composition · 126 components across 11 families

Monoterpene	**47.86%**
α-pinene	25.12%
camphene	6.57%
p-cymene	4.15%
limonene (d)	2.90%
γ-terpinene	2.64%
terpinolene	1.65%
β-pinene	1.12%
α-terpinene	1.12%
tricyclene	0.88%
α-phellandrene	0.76%

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/rock-rose-essential-oil#batch=RRS-117

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α-thujene	0.31%
o-cymene	0.15%
(Z)-β-ocimene	0.15%
sabinene	0.10%
p-mentha-1,3,8-triene · 1,3,8-para-menthatriene	0.08%
p-mentha-1,3,8-triene · para-menthatriene	0.07%
styrene	0.06%
α-fenchene	0.03%
Monoterpenol	**11.73%**
terpinen-4-ol	4.59%
(E)-pinocarveol	3.05%
α-terpineol	1.62%
borneol	1.08%
linalool	0.78%
(E)-carveol	0.21%
p-cymen-8-ol	0.19%
isoborneol	0.12%
fenchol	0.09%
Sesquiterpene	**8.17%**
viridiflorene	2.00%
β-caryophyllene	1.00%
δ-cadinene	0.92%
allo-aromadendrene	0.86%
α-copaene	0.76%
longicyclene	0.73%
β-selinene	0.39%
aromadendrene	0.31%
α-calacorene	0.27%
dauca-5,8-diene	0.23%

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α-gurjunene	0.20%
γ-muurolene	0.13%
(E)-cadina-1,4-diene	0.08%
sativene	0.06%
α-selinene	0.06%
amorpha-4,11-diene	0.05%
α-caryophyllene	0.04%
(E,E)-α-farnesene	0.04%
β-guaiene	0.03%
β-copaene	0.01%
Sesquiterpenol	**5.46%**
viridiflorol	2.75%
ledol	0.96%
1,10-epi-cubenol	0.50%
cubeban-11-ol	0.35%
palustrol	0.24%
α-muurolol · α-muurolene	0.17%
spathulenol	0.15%
α-muurolol	0.14%
globulol	0.05%
epi-cubenol	0.05%
gleenol	0.04%
isospathulenol	0.03%
τ-muurolol	0.03%
Ester	**4.59%**
bornyl acetate	3.61%
myrtenyl acetate	0.42%
(Z)-pinocarvyl acetate	0.22%
(E)-carvyl acetate	0.13%

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(Z)-muurola-3,5-diene	0.11%
(Z)-3-hexenyl benzoate	0.06%
geranyl acetate	0.02%
(Z)-carvyl acetate	0.01%
benzyl benzoate	0.01%
Ketone	**4.41%**
thuja-2,4(10)-diene	1.13%
pinocamphone	1.05%
pinocarvone	0.67%
verbenone	0.46%
acetophenone	0.23%
camphor	0.20%
carvone	0.18%
β-cyclocitral	0.14%
p-methylacetophenone	0.09%
piperitone	0.08%
6-methyl-5-hepten-2-one	0.07%
nopinone	0.06%
carvotanacetone	0.05%
Other	**3.92%**
dehydro-p-cymene	1.79%
16.94 ocimenone<z->	0.52%
13.19 tagetone<e->	0.22%
nonacosane	0.20%
(E)-calamenene	0.19%
heptacosane	0.11%
20.58 verbanol acetate<iso->	0.10%
2,6-dimethyl-1,5-heptadiene	0.09%
β-thujone	0.08%

cadalene	0.08%
3-p-menthene	0.05%
6-methyl-3,5-heptadien-2-one	0.05%
25.10 ionone<dihydro-α->	0.05%
octane	0.04%
1-tetradecanol	0.04%
38.81 ambroxide	0.04%
m-xylene	0.03%
20.29 elsholtzia ketone<β-dehydro->	0.03%
phytone	0.03%
48.66 kaurene	0.03%
tricosane	0.03%
toluene	0.02%
21.98 piperitenone	0.02%
26.08 ionone<dihydro-β->	0.02%
turmerol	0.02%
heptanal	0.01%
dodecane	0.01%
49.40 sclareolide	0.01%
pentacosane	0.01%

Aldehyde	**2.33%**
α-campholene aldehyde	0.86%
myrtenal	0.78%
nonanal	0.34%
phellandral	0.15%
benzaldehyde	0.07%
cuminal	0.06%
2-decanal	0.04%
decane	0.02%
pentadecanal	0.01%
Oxide	**0.53%**
neryl oxide	0.20%
(Z)-rose oxide	0.16%
caryophyllene oxide	0.14%
1,4-cineole	0.03%
Phenol	**0.17%**
carvacrol	0.17%
Furan	**0.12%**
furan, 2,5-diethenyltetrahydro-2-methyl	0.12%

REFRACTIVE INDEX @20°C	OPTICAL ROTATION @20°C
1.4720	**-11.515**

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