AROMATICS DATA

GC-MS BATCH SUMMARY

Batch POD-115

October 31, 2026

Ponderosa Pine Essential Oil

Pinus ponderosa

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
August 15, 2023	**Steam Distilled**	**Wildcrafted**	**USA**

TOP 5 COMPONENTS		of 85 measured
α-pinene	Monoterpene	**28.74%**
β-pinene	Monoterpene	**21.43%**
δ-3-carene	Monoterpene	**14.33%**
limonene (d)	Monoterpene	**8.41%**
bornyl acetate	Ester	**5.06%**

Full composition · 85 components across 10 families

Monoterpene	**83.66%**
α-pinene	28.74%
β-pinene	21.43%
δ-3-carene	14.33%
limonene (d)	8.41%
β-myrcene	3.20%
camphene	2.00%
terpinolene	1.99%
(Z)-β-ocimene	1.02%
tricyclene	0.61%
γ-terpinene	0.41%

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/ponderosa-pine-essential-oil#batch=POD-115

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p-cymene	0.38%
α-terpinene	0.28%
(E)-β-ocimene	0.27%
α-phellandrene	0.21%
alloocimene	0.19%
α-thujene	0.10%
sabinene	0.07%
hashishene	0.02%
Ester	**5.38%**
bornyl acetate	5.06%
(Z)-pinocarvyl acetate	0.12%
geranyl acetate	0.05%
(Z)-muurola-3,5-diene	0.05%
myrtenyl acetate	0.04%
camphene hydrate	0.03%
linalyl acetate	0.03%
Sesquiterpene	**4.44%**
β-caryophyllene	1.66%
δ-cadinene	0.73%
α-caryophyllene	0.38%
germacrene D	0.31%
longifolene	0.26%
γ-cadinene	0.24%
γ-muurolene	0.19%
δ-elemene	0.16%
(Z)-cadina-1(6),4-diene	0.08%
epizonarene	0.08%
β-bourbonene	0.07%
γ-amorphene	0.05%

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dauca-5,8-diene	0.04%
β-copaene	0.04%
α-selinene	0.04%
(E)-cadina-1,4-diene	0.03%
β-selinene	0.03%
aromadendrene	0.02%
α-cadinene	0.02%
β-cadinene	0.01%
Monoterpenol	**2.94%**
α-terpineol	1.51%
borneol	0.35%
terpinen-4-ol	0.28%
linalool	0.23%
(E)-pinocarveol	0.21%
fenchol	0.17%
τ-cadinol	0.09%
p-mentha-1,5-dien-8-ol	0.03%
(E)-carveol	0.03%
2-decen-1-ol	0.02%
p-cymen-8-ol	0.02%
Other	**0.69%**
dehydro-p-cymene	0.25%
24.57 decenyl acetate<9->	0.23%
22.90 undecenol<10->	0.05%
ethyl dodecanoate	0.05%
toluene	0.03%
p-1-menthenal-9	0.02%
20.90 terpinyl acetate<δ->	0.02%
1-pentadecanol	0.02%

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octane	0.01%
hexanal	0.01%
Sesquiterpenol	**0.51%**
α-muurolol · α-muurolene	0.21%
α-cadinol	0.15%
(E)-nerolidol	0.07%
epi-cubenol	0.05%
α-muurolol	0.03%
Ketone	**0.31%**
thuja-2,4(10)-diene	0.12%
pinocarvone	0.06%
verbenone	0.05%
camphor	0.03%
pinocamphone	0.03%
nopinone	0.02%
Oxide	**0.30%**
manool oxide	0.20%
caryophyllene oxide	0.08%
1,4-cineole	0.02%
Aldehyde	**0.17%**
α-campholene aldehyde	0.11%
nonanal	0.04%
phellandral	0.01%
dodecanal	0.01%
Ether	**0.14%**
methyl thymol	0.14%

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