AROMATICS DATA

GC-MS BATCH SUMMARY

Batch JUN-116

November 13, 2026

Juniper Berry Essential Oil

Juniperus communis

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
October 15, 2024	Steam Distilled	Certified Organic	Bulgaria

TOP 5 COMPONENTS

of 136 measured

α-pinene	Monoterpene	**24.98%**
β-myrcene	Monoterpene	**9.49%**
limonene (d)	Monoterpene	**7.24%**
sabinene	Monoterpene	**6.09%**
β-pinene	Monoterpene	**4.55%**

Full composition · 136 components across 11 families

Monoterpene	**63.54%**
α-pinene	24.98%
β-myrcene	9.49%
limonene (d)	7.24%
sabinene	6.09%
β-pinene	4.55%
γ-terpinene	2.62%
α-thujene	1.80%
terpinolene	1.77%
α-terpinene	1.70%
p-cymene	0.90%

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/juniper-berry-essential-oil#batch=JUN-116

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camphene	0.80%
α-phellandrene	0.53%
δ-3-carene	0.42%
tricyclene	0.20%
(E)-β-ocimene	0.19%
(Z)-β-ocimene	0.11%
δ-2-carene	0.07%
verbenene	0.04%
alloocimene	0.02%
hashishene	0.01%
p-mentha-1,3,8-triene	0.01%
Sesquiterpene	**25.74%**
β-caryophyllene	4.23%
α-caryophyllene	3.80%
δ-cadinene	3.24%
germacrene D	2.15%
γ-elemene	1.77%
β-elemene	1.71%
γ-cadinene	1.15%
γ-muurolene	1.03%
α-copaene	0.78%
α-cubebene	0.67%
α-panasinsen	0.67%
α-selinene	0.63%
β-selinene	0.59%
selina-3,7(11)-diene	0.59%
sibirene	0.45%
zonarene	0.45%
(Z)-cadina-1(6),4-diene · trans-cadina-1(6),4-diene	0.45%
germacrene B	0.28%

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aromadendrene	0.13%
β-bisabolene	0.13%
thujopsene	0.13%
δ-amorphene	0.13%
longifolene	0.10%
1-epi-bicyclosesquiphellandrene	0.09%
α-ylangene	0.08%
isocaryophyllene	0.07%
δ-elemene	0.07%
β-copaene	0.06%
(Z)-cadina-1(6),4-diene · cis-cadina-1(6),4-diene	0.05%
α-cedrene	0.02%
δ-guaiene	0.02%
α-gurjunene	0.01%
isoledene	0.01%
Monoterpenol	**3.57%**
terpinen-4-ol	2.06%
α-terpineol	0.50%
τ-cadinol	0.24%
linalool	0.15%
(E)-pinocarveol	0.11%
borneol	0.10%
citronellol	0.07%
(E)-verbenol	0.05%
(Z)-p-Menth-2-en-1-ol	0.04%
(E)-sabinene hydrate	0.04%
fenchol	0.03%
(E)-p-menth-2-en-1-ol	0.03%
p-cymen-8-ol	0.03%
1-octanol	0.02%

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(E)-p-mentha-2,8-dien-1-ol	0.02%
(E)-piperitol	0.02%
(E)-carveol	0.02%
(Z)-myrtanol	0.02%
terpinen-1-ol	0.01%
(Z)-carveol	0.01%
Sesquiterpenol	**2.35%**
α-muurolol · α-muurolene	0.91%
α-cadinol	0.40%
1,10-epi-cubenol	0.23%
τ-muurolol	0.21%
(E)-nerolidol	0.14%
spathulenol	0.13%
elemol	0.08%
α-muurolol	0.08%
γ-eudesmol	0.05%
junenol	0.04%
juniper camphor	0.04%
selin-11-en-4-ol	0.02%
1-octen-3-ol	0.01%
globulol	0.01%
Ester	**1.14%**
bornyl acetate	0.55%
(Z)-muurola-3,5-diene	0.19%
methyl citronellate	0.13%
(Z)-muurola-4(14),5-diene	0.08%
(Z)-pinocarvyl acetate	0.05%
citronellyl acetate	0.04%
isoamyl isovalerate	0.04%

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fenchyl acetate	0.03%
camphene hydrate	0.02%
neryl acetate	0.01%
Other	**0.55%**
dehydro-p-cymene	0.25%
tridecane	0.06%
β-thujone	0.04%
hexanal	0.03%
β-oplopenone	0.03%
abietatriene	0.03%
sclarene	0.03%
abietadiene	0.02%
trans-myrtanol acetate	0.02%
(e,e)-2,4-decadienal	0.01%
Germacra-4(15),5,10(14)-trien-1-α-ol	0.01%
larixol	0.01%
13-epi-dolabradiene	0.01%
Oxide	**0.45%**
caryophyllene oxide	0.22%
humulene epoxide 2	0.14%
β-pinene oxide	0.05%
1,4-cineole	0.02%
α-pinene oxide	0.01%
manool oxide	0.01%
Ketone	**0.37%**
2-undecanone	0.14%
thuja-2,4(10)-diene	0.08%
verbenone	0.05%
cryptone	0.03%

pinocarvone	0.02%
isopinocamphone	0.02%
6-methyl-5-hepten-2-one	0.01%
carvone	0.01%
piperitone	0.01%
Aldehyde	**0.24%**
α-campholene aldehyde	0.09%
phellandral	0.06%
cuminal	0.03%
nonanal	0.02%
pentadecanal	0.02%
furfural	0.01%
2-hexenal	0.01%
Ether	**0.06%**
methyl thymol	0.04%
methyl carvacrol	0.02%
Furan	**0.03%**
perillene	0.03%

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