AROMATICS DATA

GC-MS BATCH SUMMARY

Batch PMT-120

November 11, 2026

Peppermint Essential Oil

Mentha x piperita

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
October 5, 2024	**Steam Distilled**	**Organically Grown**	**Italy**

TOP 5 COMPONENTS

of 86 measured

menthol	Monoterpenol	**36.39%**
menthone	Ketone	**15.34%**
menthyl acetate	Ester	**7.25%**
1,8-cineole	Oxide	**5.58%**
neomenthol	Monoterpenol	**4.60%**

Full composition · 86 components across 11 families

Monoterpenol	**44.86%**
menthol	36.39%
neomenthol	4.60%
(E)-sabinene hydrate	1.58%
neoisomenthol	0.91%
linalool	0.63%
α-terpineol	0.39%
neoisopulegol	0.15%
(E)-p-menth-2-en-1-ol	0.08%
(Z)-sabinol	0.06%
nerol	0.03%

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/peppermint-essential-oil#batch=PMT-120

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citronellol	0.03%
(E)-piperitol	0.01%
Ketone	**22.24%**
menthone	15.34%
pulegone	3.12%
isomenthone	2.91%
piperitone	0.56%
isopulegone	0.21%
3-octanone	0.05%
(Z)-jasmone	0.03%
3-methylcyclohexanone	0.02%
Ester	**7.86%**
menthyl acetate	7.25%
isomenthyl acetate	0.38%
3-octyl acetate	0.06%
myrtenyl acetate	0.04%
isobutyl angelate	0.03%
1-octen-3-yl acetate	0.03%
2-methylbutyl 2-methylbutyrate	0.02%
hexyl isovalerate	0.02%
isoamyl isovalerate	0.01%
(Z)-3-hexenyl isovalerate	0.01%
methallyl angelate	0.01%
Sesquiterpene	**7.66%**
germacrene D	2.85%
β-caryophyllene	2.52%
(E)-β-farnesene	0.49%
β-bourbonene	0.42%
bicyclogermacrene	0.34%

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β-elemene	0.22%
δ-elemene	0.18%
β-copaene	0.17%
(Z)-hex-3-en-1-ol	0.11%
δ-cadinene	0.08%
α-caryophyllene	0.08%
α-copaene	0.05%
γ-muurolene	0.04%
allo-aromadendrene	0.03%
dauca-5,8-diene	0.03%
γ-gurjunene	0.03%
β-cubebene	0.01%
γ-cadinene	0.01%

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Monoterpene	**6.07%**
limonene (d)	1.84%
β-pinene	1.06%
α-pinene	0.69%
sabinene	0.57%
γ-terpinene	0.48%
(Z)-β-ocimene	0.33%
α-terpinene	0.30%
β-myrcene	0.26%
terpinolene	0.15%
p-cymene	0.13%
(E)-β-ocimene	0.10%
alloocimene	0.06%
α-thujene	0.05%
camphene	0.02%
pseudolimonene	0.02%
α-phellandrene	0.01%
Oxide	**5.64%**
1,8-cineole	5.58%
caryophyllene oxide	0.06%
Ether	**3.16%**
menthofuran	3.15%
2,5-diethyltetrahydrofuran	0.01%
Sesquiterpenol	**0.99%**
viridiflorol	0.49%
3-octanol	0.31%
1-octen-3-ol	0.14%
germacrene D-4-ol	0.04%
α-cadinol	0.01%

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Other	**0.54%**
neo-menthyl acetate	0.42%
limonen-10-ol	0.04%
1-hexanol	0.02%
neo-isoisopulegyl acetate	0.02%
β-thujone	0.01%
phytone	0.01%
2-hexanol	0.01%
dehydro-p-cymene	0.01%
Phenol	**0.11%**
thymol	0.07%
eugenol	0.04%
Aldehyde	**0.02%**
nonanal	0.01%
2-hexenal	0.01%

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