

Turmeric Essential Oil

Curcuma longa

Essential Oil

DISTILLATION DATE March 15, 2026	EXTRACTION Steam Distilled	CULTIVATION Organically Grown	COUNTRY OF ORIGIN India
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TOP 5 COMPONENTS		of 70 measured
ar-turmerone	Ketone	26.62%
tumerone	Ketone	9.38%
α-turmerone	Ketone	8.78%
ar-curcumene	Sesquiterpene	7.77%
α-zingiberene	Sesquiterpene	5.44%

Batch TUM-111 was steam distilled in March 2026 from the rhizomes of organically grown turmeric (*Curcuma longa*) in India. The rhizome is the thick underground stem of the plant, the same part that is dried and ground for the kitchen spice.

The oil is a clear yellow to orange liquid with a warm, earthy, spicy aroma and a soft woody note. Its color is rich enough to mark light fabrics, so protect your clothing when you blend with it.

An independent laboratory tested this batch by GC/MS. The full report and the certificate of analysis are available to download on this page, and the Chemistry Highlights describe what the report shows. This batch has a shelf life of five years, to March 2031, when it is stored cool, dark and tightly closed.

CHEMISTRY HIGHLIGHTS

Turmeric oil is known for its turmerones, a group of sesquiterpene ketones, and they lead this batch. ar-Turmerone is the largest at 26.62%, with α-turmerone at 8.78%, β-turmerone at 4.25% and a further turmerone isomer at 9.38%. Together they make up about 49% of the oil, and ketones as a family total 52.47%.



Compared with our four most recent earlier batches (TUM-107 to TUM-110), this one holds a little less of the turmerones and a little more of the sesquiterpenes. In those batches ar-turmerone measured 29.46% to 34.02% and α -turmerone 11.96% to 21.89%. ar-Curcumene is higher here at 7.77% (earlier batches 4.17% to 6.15%), and α -zingiberene is 5.44%. Sesquiterpenes total 25.77%.

ar-Curcumene, α -zingiberene, β -sesquiphellandrene (2.83%) and β -bisabolene (1.86%) are close relatives of the turmerones. They share the same carbon frame, called the bisabolane skeleton. Monoterpenes are a small part of this oil at 1.45%, including 1,8-cineole at 0.39%, so the aroma stays deep and warm.

In a blend, a profile like this may feel warming and comforting, and many people choose turmeric oil for muscles and joints after effort. Use a low dilution on the skin.

The laboratory named 67 components and recorded three small unidentified peaks, 2.03% together.

Full composition · 70 components across 8 families

Ketone	52.47%
ar-turmerone	26.62%
tumerone	9.38%
α -turmerone	8.78%
β -tumerone	4.25%
(E)- α -atlantone	1.41%
(Z)- γ -atlantone	0.74%
(Z)- α -atlantone	0.43%
dihydro-ar-turmerone	0.30%
vestitenone	0.18%
p-methylacetophenone	0.14%
carvotanacetone	0.12%
limona ketone	0.10%
mesityl oxide	0.01%
piperitone	0.01%
Sesquiterpene	25.77%
ar-curcumene	7.77%

Every batch is GC-MS tested by an independent lab. This report is provided for full transparency by Aromatics International.

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α -zingiberene	5.44%
γ -curcumene	3.01%
β -sesquiphellandrene	2.83%
β -bisabolene	1.86%
β -caryophyllene	1.19%
amorpha-4,11-diene	0.92%
β -curcumene	0.53%
(E)- γ -bisabolene	0.47%
α -caryophyllene	0.43%
α -santalene	0.28%
β -acoradiene	0.23%
δ -cadinene	0.19%
(E)- α -bergamotene	0.18%
β -vetivenene	0.17%
β -cadinene	0.14%
(E)- α -bisabolene	0.06%
α -alaskene	0.05%
α -cedrene	0.02%
Other	7.38%
Benzene, 1-(1,5-dimethylhexyl)-4-methyl-	3.24%
4-Methyl-4-phenylpentan-2-one	2.76%
(6r,7r)-bisabolone	0.52%
dictamnol · 23.69 dictamnol<8-epi->	0.48%
acora-3,7(14)-diene	0.08%
dictamnol · 25.79 dictamnol	0.08%
turnerol	0.08%
4-vinylguaiacol	0.07%
Dill ether	0.03%
3-Hexanone	0.02%
3.03 butanediol<2,3->	0.01%

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4-Ethylguaiaicol	0.01%
Monoterpene	1.45%
terpinolene	0.58%
p-cymene	0.33%
α -phellandrene	0.29%
limonene (d)	0.07%
β -phellandrene	0.06%
α -terpinene	0.04%
α -pinene	0.02%
γ -terpinene	0.02%
camphene	0.01%
β -myrcene	0.01%
δ -3-carene	0.01%
2-methyl-2-heptene	0.01%
Oxide	0.39%
1,8-cineole	0.39%
Sesquiterpenol	0.30%
α -bisabolol	0.16%
hinesol	0.14%
Monoterpenol	0.21%
myrtenol	0.08%
α -terpineol	0.08%
terpinen-4-ol	0.04%
δ -terpineol	0.01%
Phenol	0.14%
carvacrol	0.09%
phenol	0.03%
eugenol	0.02%

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Unidentified peaks	2.03%
3 peaks the lab could not identify	2.03%
UK BP: 69 · RT 30.87 min 0.79% · UK BP: 105 · RT 37.12 min 0.71% · UK BP: 69 · RT 40.50 min 0.53%	

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