AROMATICS DATA

GC-MS BATCH SUMMARY

Batch CIL-109

November 20, 2026

Cinnamon Leaf Essential Oil

Cinnamomum verum

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
January 1, 2026	**Steam Distilled**	**Unsprayed**	**Madagascar**

TOP 5 COMPONENTS		of 55 measured
eugenol	Phenol	**75.33%**
benzyl benzoate	Ester	**3.04%**
β-caryophyllene	Sesquiterpene	**2.67%**
safrole	Ether	**2.19%**
(E)-cinnamaldehyde	Aldehyde	**2.16%**

Batch CIL-109 comes from Madagascar, where the fragrant leaves of Cinnamon (*Cinnamomum verum*) are carefully gathered from unsprayed trees and steam distilled. Distilled in January 2026, this beautiful essential oil has a warm, sweet, spicy aroma reminiscent of cloves, with soft, woody undertones.

Cinnamon Leaf has a distinctly different aromatic character from Cinnamon Bark. The leaf oil offers a rounder, more clove-like fragrance, while the bark is known for its intensely sweet, sharp cinnamon spice. Its rich, comforting aroma makes Cinnamon Leaf a lovely addition to seasonal diffuser blends, especially when used in small amounts alongside citrus, woody, or resinous oils.

Every batch we offer is independently GC-MS tested to verify its chemical composition. The complete GC-MS report and Certificate of Analysis for CIL-109 are available to download, allowing you to explore the unique chemistry of the oil in your bottle.

CHEMISTRY HIGHLIGHTS

Cinnamon Leaf is known for its exceptionally high eugenol content, and batch CIL-109 is a beautiful example. GC-MS analysis identified **55 individual components, with eugenol making up 75.33% of the oil**.

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This aromatic phenol is responsible for much of Cinnamon Leaf's characteristic warm, sweet, clove-like fragrance.

Phenols account for 75.45% of the oil, making them the dominant chemical family. The eugenol content is slightly higher than the 73.31% average across our seven previous batches, while remaining within the natural range we have observed.

Other notable components include **benzyl benzoate at 3.04%** and **beta-caryophyllene at 2.67%**, which contribute to the oil's rich, warm aromatic character.

Two components are especially interesting in this batch. **Linalool at 2.06%** and **(E)-cinnamaldehyde at 2.16%** are both higher than the levels identified in our previous analyses. Linalool contributes a subtle floral softness, while cinnamaldehyde adds a recognizable cinnamon-like warmth.

Another interesting distinction is eugenyl acetate at just 0.61%, slightly below the lowest level observed in our earlier batches. This highlights how the proportions of individual aromatic components can vary naturally from one distillation to another.

With its eugenol-rich chemistry, CIL-109 is a particularly potent essential oil. Very low topical dilutions and thoughtful use are important to minimize the potential for skin irritation and sensitization.

Together, these components create the distinctive chemical fingerprint of this batch, combining the familiar warmth of Cinnamon Leaf with subtle floral, woody, and sweet aromatic notes.

Full composition · 55 components across 10 families

Phenol	**75.45%**
eugenol	75.33%
chavicol	0.06%
3-phenyl-1-propanol	0.04%
carvacrol	0.02%
Monoterpene	**6.66%**
p-cymene	1.51%
α-pinene	1.38%
α-phellandrene	0.81%
β-phellandrene	0.75%
limonene (d)	0.57%

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camphene	0.52%
β-pinene	0.38%
α-terpinene	0.20%
α-thujene	0.14%
β-myrcene	0.12%
terpinolene	0.10%
δ-3-carene	0.08%
γ-terpinene	0.04%
styrene	0.03%
(E)-β-ocimene	0.03%
Ester	**4.83%**
benzyl benzoate	3.04%
cinnamyl acetate	1.12%
eugenyl acetate	0.61%
2-methylbutyl 2-methylbutyrate	0.04%
3-phenylpropyl acetate	0.02%
Sesquiterpene	**3.67%**
β-caryophyllene	2.67%
α-caryophyllene	0.46%
α-copaene	0.35%
viridiflorene	0.09%
allo-aromadendrene	0.05%
italicene	0.03%
δ-cadinene	0.02%
Monoterpenol	**2.68%**
linalool	2.06%
α-terpineol	0.34%
terpinen-4-ol	0.17%
borneol	0.05%

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p-cymen-8-ol	0.03%
hotrienol	0.02%
(E)-pinocarveol	0.01%
Aldehyde	**2.54%**
(E)-cinnamaldehyde	2.16%
benzaldehyde	0.29%
3-phenylpropanal	0.09%
Ether	**2.19%**
safrole	2.19%
Oxide	**1.47%**
caryophyllene oxide	0.95%
1,8-cineole	0.24%
humulene epoxide 2	0.14%
(E)-linalool oxide	0.05%
allo-aromadendrene epoxide	0.05%
linalool (Z)-oxide	0.04%
Other	**0.23%**
Butanediol<2,3->	0.08%
1-hexadecene	0.04%
Caryophyllene<14-...hydroxy-9-epi-(E)->	0.04%
hexanal	0.03%
3-Hexanone	0.02%
cinnamyl alcohol	0.02%
Sesquiterpenol	**0.05%**
spathulenol	0.05%

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