

# Lemon Essential Oil

*Citrus limon*

Essential Oil

|                                            |                                   |                                         |                                   |
|--------------------------------------------|-----------------------------------|-----------------------------------------|-----------------------------------|
| DISTILLATION DATE<br><b>March 15, 2026</b> | EXTRACTION<br><b>Cold Pressed</b> | CULTIVATION<br><b>Organically Grown</b> | COUNTRY OF ORIGIN<br><b>Italy</b> |
|--------------------------------------------|-----------------------------------|-----------------------------------------|-----------------------------------|

| TOP 5 COMPONENTS    |             | of 51 measured |
|---------------------|-------------|----------------|
| <b>limonene (d)</b> | Monoterpene | <b>66.30%</b>  |
| <b>β-pinene</b>     | Monoterpene | <b>10.46%</b>  |
| <b>γ-terpinene</b>  | Monoterpene | <b>8.87%</b>   |
| <b>β-myrcene</b>    | Monoterpene | <b>2.07%</b>   |
| <b>α-pinene</b>     | Monoterpene | <b>2.02%</b>   |

Our Lemon Oil (*Citrus limon*), batch LEM-131, comes from organically grown lemons in Italy. The oil is cold pressed from the peel rather than distilled, with a bright, clean aroma reminiscent of freshly zested lemon. It has that familiar citrus freshness you notice as soon as the bottle opens.

Every batch is independently GC-MS tested before it reaches you. The full chromatogram and certificate of analysis for LEM-131 are available to download here, so you can review the testing behind the oil you choose.

## CHEMISTRY HIGHLIGHTS

Analysis identified 51 components in LEM-131, with monoterpenes accounting for 93.86% of the profile. Limonene leads at 66.3%, followed by beta-pinene at 10.46% and gamma-terpinene at 8.87%. Compared with the 14 other batches in our records, limonene sits in the upper half of the recorded 53.8–69.86% range.

The more distinctive differences appear among the minor constituents. P-cymene measures 1.25%, above the 0.08–0.88% range recorded in those comparison batches. The two components that make up citral are lower: geranial is 0.64%, compared with a recorded range of 1.06–2.6%, while neral is 0.42%, compared with 0.55–1.47%.

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/lemon-essential-oil#batch=LEM-131](https://data.aromatics.com/products/lemon-essential-oil#batch=LEM-131)

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Neryl acetate, at 0.73%, is above the comparison-batch average of 0.59%, while its related alcohol, nerol, is present at 0.03%. Together, these details show where LEM-131 differs from previous batches despite its familiar limonene-led profile.

Full composition · 51 components across 8 families

|                      |               |
|----------------------|---------------|
| <b>Monoterpene</b>   | <b>93.86%</b> |
| limonene (d)         | 66.30%        |
| β-pinene             | 10.46%        |
| γ-terpinene          | 8.87%         |
| β-myrcene            | 2.07%         |
| α-pinene             | 2.02%         |
| sabinene             | 1.98%         |
| p-cymene             | 1.25%         |
| α-thujene            | 0.46%         |
| terpinolene          | 0.16%         |
| (Z)-β-ocimene        | 0.13%         |
| camphene             | 0.06%         |
| δ-3-carene           | 0.04%         |
| α-phellandrene       | 0.03%         |
| α-terpinene          | 0.03%         |
| <b>Sesquiterpene</b> | <b>1.56%</b>  |
| β-bisabolene         | 0.70%         |
| (E)-α-bergamotene    | 0.48%         |
| β-caryophyllene      | 0.20%         |
| valencene            | 0.12%         |
| (Z)-α-bergamotene    | 0.03%         |
| (E)-β-farnesene      | 0.03%         |
| <b>Aldehyde</b>      | <b>1.47%</b>  |
| geranial             | 0.64%         |
| neral                | 0.42%         |

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|                                  |              |
|----------------------------------|--------------|
| nonanal                          | 0.12%        |
| citronellal                      | 0.12%        |
| octanal                          | 0.09%        |
| decanal                          | 0.07%        |
| perillaldehyde                   | 0.01%        |
| <b>Ester</b>                     | <b>1.20%</b> |
| neryl acetate                    | 0.73%        |
| geranyl acetate                  | 0.41%        |
| citronellyl acetate              | 0.06%        |
| <b>Monoterpenol</b>              | <b>0.94%</b> |
| citronellol                      | 0.29%        |
| linalool                         | 0.19%        |
| $\alpha$ -terpineol              | 0.17%        |
| lavandulol                       | 0.09%        |
| (E)-p-mentha-2,8-dien-1-ol       | 0.05%        |
| terpinen-4-ol                    | 0.05%        |
| p-cymen-8-ol                     | 0.03%        |
| nerol                            | 0.03%        |
| (E)-sabinene hydrate             | 0.02%        |
| (E)-p-mentha-1(7),8-dien-2-ol    | 0.02%        |
| <b>Other</b>                     | <b>0.20%</b> |
| ascaridole                       | 0.10%        |
| 3-Hexanone                       | 0.03%        |
| Butanediol<2,3->                 | 0.03%        |
| cis-para-mentha-1(7),8-dien-2-ol | 0.02%        |
| 1-tetradecene                    | 0.02%        |
| <b>Oxide</b>                     | <b>0.19%</b> |
| (Z)-limonene oxide               | 0.07%        |
| (E)-limonene oxide               | 0.06%        |

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|                       |              |
|-----------------------|--------------|
| 1,8-cineole           | 0.03%        |
| caryophyllene oxide   | 0.03%        |
| <b>Sesquiterpenol</b> | <b>0.06%</b> |
| spathulenol           | 0.03%        |
| $\alpha$ -bisabolol   | 0.03%        |

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