AROMATICS DATA

GC-MS BATCH SUMMARY

**Batch ROG-108**

November 15, 2026

# Rose and Geranium Essential Oil

*Rosa x centifolia/Pelargonium graveolens*

Essential Oil

| DISTILLATION DATE | EXTRACTION | CULTIVATION | COUNTRY OF ORIGIN |
|---|---|---|---|
| January 23, 2024 | Steam Distilled | Organically Grown | South Africa |

## TOP 5 COMPONENTS

of 96 measured

| | | |
|---|---|---|
| **citronellol** | Monoterpenol | **24.45%** |
| **citronellyl formate** | Ester | **10.83%** |
| **geraniol** | Monoterpenol | **9.57%** |
| **6,9-guaiadiene** | Sesquiterpene | **8.22%** |
| **isomenthone** | Ketone | **7.10%** |

Full composition · 96 components across 9 families

| | |
|---|---|
| **Monoterpenol** | **42.80%** |
| citronellol | 24.45% |
| geraniol | 9.57% |
| linalool | 6.56% |
| nerol | 0.82% |
| α-terpineol | 0.70% |
| neoisomenthol | 0.22% |
| δ-terpineol | 0.15% |
| isopulegol | 0.07% |
| terpinen-4-ol | 0.06% |
| (Z)-isogeraniol | 0.06% |

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/rose-and-geranium-essential-oil#batch=ROG-108

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| | |
|---|---|
| p-mentha-1,5-dien-8-ol | 0.05% |
| myrcenol | 0.05% |
| menthol | 0.03% |
| 1-octanol | 0.01% |
| **Ester** | **18.93%** |
| citronellyl formate | 10.83% |
| geranyl formate | 3.79% |
| geranyl propionate | 0.98% |
| geranyl butyrate | 0.73% |
| citronellyl butyrate | 0.54% |
| citronellyl acetate | 0.43% |
| geranyl tiglate | 0.39% |
| neryl formate | 0.39% |
| 2-phenylethyl tiglate | 0.35% |
| citronellyl tiglate | 0.18% |
| geranyl 2-methylbutyrate | 0.11% |
| geranyl valerate | 0.08% |
| 2-phenylethyl isobutyrate | 0.07% |
| geranyl caproate | 0.03% |
| (Z)-muurola-4(14),5-diene | 0.02% |
| neryl acetate | 0.01% |
| **Sesquiterpene** | **18.45%** |
| 6,9-guaiadiene | 8.22% |
| β-caryophyllene | 1.99% |
| β-bourbonene | 1.67% |
| germacrene D | 1.10% |
| α-guaiene | 0.78% |
| δ-cadinene | 0.69% |
| β-copaene | 0.68% |


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| | |
|---|---|
| α-copaene | 0.51% |
| α-caryophyllene | 0.46% |
| β-selinene | 0.40% |
| γ-cadinene | 0.37% |
| β-elemene | 0.32% |
| allo-aromadendrene | 0.15% |
| β-cadinene | 0.14% |
| α-cubebene | 0.13% |
| α-selinene | 0.12% |
| γ-muurolene | 0.11% |
| (E)-cadina-1,4-diene | 0.09% |
| 1-epi-bicyclosesquiphellandrene | 0.07% |
| italicene | 0.06% |
| β-bisabolene | 0.06% |
| α-ylangene | 0.06% |
| α-calacorene | 0.05% |
| β-caryophyllene · cis-caryophyllene | 0.04% |
| (E,E)-α-farnesene | 0.04% |
| δ-guaiene | 0.04% |
| α-gurjunene | 0.04% |
| γ-amorphene | 0.03% |
| δ-elemene | 0.03% |
| **Ketone** | **10.09%** |
| isomenthone | 7.10% |
| menthone | 2.83% |
| 6-methyl-5-hepten-2-one | 0.16% |
| **Oxide** | **2.27%** |
| (Z)-rose oxide | 1.45% |
| (E)-rose oxide | 0.58% |


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| | |
|---|---|
| linalool (Z)-oxide | 0.19% |
| humulene epoxide 2 | 0.05% |
| **Other** | **1.40%** |
| uk | 0.82% |
| (E)-calamenene | 0.15% |
| nonadecane | 0.11% |
| 6-methyl-3,5-heptadien-2-one | 0.07% |
| neo-menthyl acetate | 0.07% |
| citronellyl pentanoate | 0.04% |
| (2E)-tridecenol | 0.04% |
| 3-methylpentanol | 0.03% |
| 1-nor-bourbonanone | 0.03% |
| heptadecane | 0.03% |
| perillyl alcohol | 0.01% |
| **Monoterpene** | **1.39%** |
| α-pinene | 0.40% |
| limonene (d) | 0.28% |
| β-myrcene | 0.20% |
| (E)-β-ocimene | 0.11% |
| α-phellandrene | 0.11% |
| p-cymene | 0.10% |
| (Z)-β-ocimene | 0.09% |
| δ-2-carene | 0.06% |
| terpinolene | 0.03% |
| β-pinene | 0.01% |
| **Aldehyde** | **1.22%** |
| neral | 0.62% |
| geranial | 0.60% |


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| | |
|---|---|
| **Sesquiterpenol** | **0.88%** |
| (E)-myrtanol | 0.29% |
| α-muurolol | 0.22% |
| 1,10-epi-cubenol | 0.15% |
| (Z)-sesquisabinene hydrate | 0.13% |
| epi-cubenol | 0.05% |
| junenol | 0.03% |
| 1-octen-3-ol | 0.01% |

REFRACTIVE INDEX @20°C

**1.4660**



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