AROMATICS DATA

GC-MS BATCH SUMMARY

Batch RCM-122

November 5, 2026

Chamomile Roman Essential Oil

Chamaemelum nobile

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
July 23, 2026	Steam Distilled	Certified Organic	Bulgaria

TOP 5 COMPONENTS

of 61 measured

isobutyl angelate	Ester	31.58%
3-methylamyl methacrylate	Ester	18.63%
methallyl angelate	Ester	9.77%
isoamyl angelate	Ester	9.69%
isobutyl isobutyrate	Ester	5.16%

Batch RCM-122 comes from certified organic fields in Bulgaria, where Roman Chamomile (*Chamaemelum nobile*) is cultivated for its delicate, daisy-like flowers. Harvested and steam distilled in July 2026, these blossoms produce an essential oil with a beautifully soft, sweet aroma, gentle fruity notes, and a warm, herbaceous undertone.

Roman Chamomile is treasured for its comforting aromatic character and its place in gentle, calming blends. Its delicate fragrance blends beautifully with other essential oils, bringing a soft, soothing quality to the overall aroma.

Every batch we offer is independently GC-MS tested to verify its chemical composition.

The complete GC-MS report and Certificate of Analysis for RCM-122 are available to download, allowing you to explore the unique chemistry of the oil in your bottle.

CHEMISTRY HIGHLIGHTS

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Roman Chamomile is known for its remarkable ester-rich chemistry, and batch RCM-122 is a beautiful example. GC-MS analysis identified 61 individual components, with esters making up an impressive 88.15% of the oil. This chemical family is closely associated with the gentle, soothing qualities for which Roman Chamomile is treasured.

The leading component is isobutyl angelate at 31.58%, one of the highest levels we have seen across our previous batches. Methallyl angelate contributes another 9.77%.

One of the most interesting features of this batch is 3-methylamyl methacrylate at 18.63%, more than twice the highest level identified in our earlier batches. Meanwhile, 3-methylamyl angelate appears at just 0.33%, considerably below its previous average of 17.85%. These differences highlight the natural chemical variation that makes each batch distinctive.

Smaller amounts of other components, including pinocarvone at 1.59%, contribute to the oil's overall complexity. Ketones account for just 2.97% of the profile.

With its exceptionally high ester content and distinctive balance of individual components, RCM-122 offers a fascinating look at the chemistry behind Roman Chamomile's soft, comforting aromatic character.

Full composition · 61 components across 8 families

Ester	**88.15%**
isobutyl angelate	31.58%
3-methylamyl methacrylate	18.63%
methallyl angelate	9.77%
isoamyl angelate	9.69%
isobutyl isobutyrate	5.16%
2-methylbutyl isobutyrate	3.40%
isopropyl tiglate	1.60%
isobutyl methacrylate	1.27%
isobutyl 2-methylbutyrate	0.89%
prenyl angelate	0.86%
butyl angelate	0.84%
isoamyl methacrylate	0.66%
2-methylbutyl 2-methylbutyrate	0.59%
isobutyl tiglate	0.55%

isoamyl isobutyrate	0.49%
methylamyl angelate	0.33%
2-methylbutyl angelate	0.32%
prenyl acetate	0.30%
methylbutyl acetate	0.26%
2-methylbutyl methacrylate	0.25%
isobutyl isovalerate	0.22%
isoamyl acetate	0.18%
propyl isobutyrate	0.09%
isobutyl butyrate	0.07%
isoamyl propionate	0.05%
3-methylamyl isobutyrate	0.03%
geranyl acetate	0.03%
ethyl angelate	0.02%
(Z)-pinocarvyl acetate	0.02%
Ketone	**2.97%**
pinocarvone	1.59%
pinocamphone	0.56%
isopinocamphone	0.34%
3-methylcyclohexanone	0.32%
2,4-dimethyl-3-pentanone	0.09%
valeranone	0.04%
thuja-2,4(10)-diene	0.03%
Monoterpene	**2.48%**
α-pinene	1.68%
camphene	0.32%
β-pinene	0.15%
limonene (d)	0.15%
sabinene	0.13%

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p-cymene	0.05%
Other	**1.20%**
Isopentyl butanoate	0.55%
isopentyl 2-methylbutyrate	0.19%
2-hexanol	0.09%
(Z)-3-hexenyl angelate	0.09%
Liguloxide	0.08%
Butanediol<2,3->	0.07%
2-methyl butyl isovalerate	0.07%
hexanal	0.04%
1-octene	0.02%
Aldehyde	**0.68%**
myrtenal	0.64%
α-campholene aldehyde	0.04%
Monoterpenol	**0.45%**
myrtenol	0.28%
borneol	0.13%
3-hexen-1-ol	0.03%
p-cymen-8-ol	0.01%
Sesquiterpene	**0.08%**
ar-curcumene	0.04%
β-selinene	0.03%
(E)-β-farnesene	0.01%
Sesquiterpenol	**0.06%**
viridiflorol	0.06%

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