AROMATICS DATA

GC-MS BATCH SUMMARY

Batch ROA-121

November 27, 2026

Rose Absolute Essential Oil

Rosa x damascena

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
June 18, 2026	Solvent	Organically Grown	Bulgaria

TOP 5 COMPONENTS

of 29 measured

phenylethyl alcohol	Other	60.28%
citronellol	Monoterpenol	17.33%
geraniol	Monoterpenol	10.61%
nerol	Monoterpenol	5.80%
nonadecane	Other	1.44%

Batch ROA-121 comes from organically grown *Rosa x damascena* in Bulgaria, where the rose harvest is measured in weeks rather than months. The blossoms were solvent extracted on June 18, 2026, a method that captures the heavier, deeper facets of the flower that steam cannot carry, giving this absolute its rich, honeyed, unmistakably rose aroma. It is best used in the smallest amounts, where it lends warmth and a sense of quiet luxury to a blend.

CHEMISTRY HIGHLIGHTS

ROA-121 leads with phenylethyl alcohol at 60.28%, right at the 59.79% mean across our twelve analyzed batches, but the monoterpenol side is unusually full: citronellol 17.33%, geraniol 10.61%, and nerol 5.80% sum to 34.35%, with geraniol and nerol both sitting near the top of the 3.26-13.28% and 1.04-7.32% ranges we have recorded. Eugenol is the outlier in the other direction at 0.54%, close to the 0.42% floor of our history.

The small print is where this *Rosa x damascena* absolute gets fun. Geraniol, nerol, and geranyl acetate (0.26%) appear alongside geranial and neral at 0.06% and 0.03%, a tidy alcohol-ester-aldehyde set from one biosynthetic thread, and 2-phenylethyl acetate and formate trail their parent alcohol at 0.07% each. Thirty components total, with a waxy alkane tail led by nonadecane at 1.44%.

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-absolute-essential-oil#batch=ROA-121

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Full composition · 29 components across 6 families

Other	**62.37%**
phenylethyl alcohol	60.28%
nonadecane	1.44%
heneicosane	0.44%
2-phenylethyl formate	0.07%
tricosane	0.07%
geranate	0.04%
pentacosane	0.03%
Monoterpenol	**34.35%**
citronellol	17.33%
geraniol	10.61%
nerol	5.80%
linalool	0.61%
Sesquiterpene	**0.91%**
nonadecene	0.40%
benzyl alcohol	0.13%
β-caryophyllene	0.13%
germacrene D	0.08%
α-caryophyllene	0.05%
γ-cadinene	0.04%
α-guaiene	0.02%
α-muurolene	0.02%
δ-cadinene	0.02%
β-elemene	0.01%
δ-guaiene	0.01%
Phenol	**0.54%**
eugenol	0.54%

Ester	**0.39%**
geranyl acetate	0.26%
2-phenylethyl acetate	0.07%
citronellyl acetate	0.06%
Aldehyde	**0.14%**
geranial	0.06%
benzaldehyde	0.05%
neral	0.03%

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