

GC-MS COMPOSITION REPORT

Anise Star (Pimpinella anisum) — qualitative GC-MS

Total identified 98.83% Method Qualitative GC-MS

CHEMICAL FAMILY	AREA %
Phenylpropanoid	89.96%
Monoterpenol	5.20%
Simple Phenolic	1.80%
Monoterpene	1.53%
Unassigned	0.59%
Sesquiterpene	0.12%
Monoterpene Aldehyde	0.06%
Alkane	0.03%
Monoterpene Ether	0.02%
Aliphatic Ketone	0.01%
Aliphatic Aldehyde	0.01%
Aliphatic Ester	0.01%
Monoterpene Ketone	0.01%

#	RT	AREA %	COMPOUND	CHEMICAL FAMILY
1	7.80	0.03%	Nonane	Alkane
2	8.00	0.01%	alpha-Pinene	Monoterpene
3	9.55	0.01%	Sabinene	Monoterpene
4	10.10	0.01%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
5	10.28	0.03%	Myrcene	Monoterpene
6	10.89	0.01%	Octanal	Aliphatic Aldehyde
7	11.92	1.45%	Limonene	Monoterpene
8	12.02	0.02%	1,8-Cineole	Monoterpene Ether
9	12.76	0.01%	(E)-beta-Ocimene	Monoterpene
10	13.23	0.01%	gamma-Terpinene	Monoterpene
11	13.79	0.01%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
12	14.44	0.01%	Terpinolene	Monoterpene
13	14.51	0.01%	trans-Linalool oxide (5) (furanoid)	Monoterpenol
14	15.19	3.47%	Linalool	Monoterpenol
15	17.36	0.06%	beta-Terpineol	Monoterpenol
16	17.94	0.02%	Isoborneol	Monoterpenol
17	18.34	0.05%	Borneol	Monoterpenol
18	18.76	0.05%	Terpinen-4-ol	Monoterpenol

#	RT	AREA %	COMPOUND	CHEMICAL FAMILY
19	19.27	0.01%	(Z)-3-Hexenyl butyrate	Aliphatic Ester
20	19.46	1.53%	alpha-Terpineol	Monoterpenol
21	19.63	4.08%	Methyl chavicol	Phenylpropanoid
22	21.46	0.03%	Neral	Monoterpene Aldehyde
23	21.65	0.01%	Carvone	Monoterpene Ketone
24	22.16	1.80%	para-Anisaldehyde	Simple Phenolic
25	22.46	0.07%	(Z)-Anethole	Phenylpropanoid
26	22.92	0.03%	Geranial	Monoterpene Aldehyde
27	23.94	85.79%	(E)-Anethole	Phenylpropanoid
28	26.44	0.02%	Eugenol	Phenylpropanoid
29	27.58	0.59%	UK Compound	—
30	29.19	0.04%	beta-Caryophyllene	Sesquiterpene
31	29.87	0.03%	trans-alpha-Bergamotene	Sesquiterpene
32	30.66	0.01%	alpha-Humulene	Sesquiterpene
33	30.76	0.01%	(E)-beta-Farnesene	Sesquiterpene
34	31.72	0.02%	Germacrene D	Sesquiterpene
35	32.42	0.01%	gamma-Amorphene	Sesquiterpene

Conclusion: no adulterants, diluents or contaminants were detected via this method. This oil meets the expected profile for the genuine essential oil identified above.

Results provided by: third-party laboratory. Comprehensive report available upon request. Provided for informational purposes only; this does not constitute a medical claim of any kind. These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.