

CERTIFICATE OF ANALYSIS

Pennyroyal Essential oil

Product Name: Pennyroyal Essential oil

Botanical Name: *Mentha pulegium* L.

Extraction process: hydro-distillation

Gas Chromatographic Profile

Nu	Main Components	Method	RT (min)	Result (%)
1	α -Pinene	INSO 16019-2	5.31	0.5
2	Sabinen	INSO 16019-2	5.93	0.54
3	β -Pinene	INSO 16019-2	6.02	1.05
4	Myrcene	INSO 16019-2	6.15	0.54
5	Limonene	INSO 16019-2	6.82	1.14
6	Eucalyptol	INSO 16019-2	6.88	11.92
7	Isolimonene	INSO 16019-2	7.47	1.91
8	Menthone	INSO 16019-2	8.81	0.31
9	Menthofuran	INSO 16019-2	8.95	0.83
10	Terpineol	INSO 16019-2	9.03	0.61
11	Isopulegone	INSO 16019-2	9.1	1.95
12	4-Terpineol	INSO 16019-2	9.19	0.34
13	Terpineol(isomer)	INSO 16019-2	9.41	1.6
14	Pulegone	INSO 16019-2	10.11	52.67
15	Chrysanthenone	INSO 16019-2	11.51	15.64
16	Caryophyllene	INSO 16019-2	12.59	3.14
17	Farnesene	INSO 16019-2	12.87	0.42
18	Caryophyllene(isomer)	INSO 16019-2	13.05	0.3
19	Germacrene D	INSO 16019-2	13.36	0.44
20	Spathulenol	INSO 16019-2	14.57	0.1
21	Caryophyllene oxide	INSO 16019-2	14.65	0.79
22	Elemene	INSO 16019-2	15.31	0.12
23	Manoyl oxide	INSO 16019-2	19.14	0.13