

ANALYSIS

Product Name : PEPPERMINT OIL
Aceite esencial de Menta Piperita
Botanical name : Mentha piperita
Origin : India

Analysis features :

Agilent GC System 7890A - Column : HP INNOWAX polaire : 60 m ´ 0,25 mm ´ 0,5 µm

Temperature program : 8 min to 95 °C – 4 °C/min till 190 °C - 29 min to 190°C

Carrier gas H2 : 30 psis/FID. Injector : split. Sample : 0.1 µl without dilution

The compounds of the essential oils are identified by retention times.

% Are calculated from the peak areas given by the GC / FID without the use of a correction factor.

Physical characteristics:

Density at 20°C	0,904
Refractive index at 20°C	1,462
Optical rotation at a 20°C	-21,5

GC Results

COMPONENTS	%	Standar
a-PINENE	0,67	
b-PINENE	0,78	
SABINENE	0,35	
b-MYRCENE	0,16	
a-PHELLANDRENE	0,03	
LIMONENE	2,68	1 - 3
1,8-CINEOLE	4,45	3 - 8
Cis-b-OCIMENE	0,08	
Trans-b-OCIMENE	0,03	
p-CYMENE	0,12	
TERPINOLENE	0,12	
3-OCTANOL	0,18	0,1 - 0,5
Trans-THUYANOL	0,18	
MENTHONE	23,27	13 - 28
MENTHOFURANE	3,34	1 - 8
ISOMENTHONE	4,93	2 - 8
LINALOL	0,19	
ACETATE DE MENTHYLE	3,84	2 - 8
ISOPULEGOL	0,46	
ACETATE D'ISOMENTHYLE	0,16	
NEOMENTHOL	3,15	2 - 6
TERPINENE-4-OL	0,48	
b-CARYOPHYLLENE	2,21	1 - 3,5
NEOISOMENTHOL	0,37	
MENTHOL	41,11	32 - 49
PULEGONE	1,25	0,5 - 3
a-TERPINEOL + g-MUUROLENE	0,18	
GERMACRENE D	0,65	
PIPERITONE	0,80	
CARVONE	0,07	
d-CADINENE	0,50	
OXYDE DE CARYOPHYLLENE	0,02	
VIRIDIFLOROL	0,07	
TOTAL	97,00	