



NHR ORGANIC OILS

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Certificate of Analysis Sheet **ORGANIC CHAMOMILE ROMAN - England** *ANTHEMIS NOBILIS* **ESSENTIAL OIL**

Product Information	
Extraction Method: STEAM DISTILLED	Parts Used: FLOWER, PLANT
Quality: 100% PURE & NATURAL	Cultivation: ORGANIC
Origin: ENGLAND	Supp Code: Pb. Ref: 31086-1
Analysis Specifications	
<u>Test Result Specification</u>	
Physical Appearance pale blue liquid	
Sensory Evaluation sweet, fruity, herbal	
Acid Evaluation 1.29 <15.0	
Ester Value ISO 709 250 250 - 310	
Miscibility in 80% EtOH dissolves in 2ml dissolves in 2ml	
Relative Density ISO 279	0.904
Refractive index at 20c	1.4387
Optical rotation at 20c -	0.10
<u>Gas Chromatography</u>	
Constituent Percentage (%)	
2-methyl-2-butenic acid, 3-methyl pentyl ester (etc) 13.36	
Alkene 8.71	
alpha pinene 7.26	
Trans-pinocarveol 6.37	
E isomer 2-methyl butyl ester 6.34	
z-isomer-2-methyl-2-butenic acid iso pentyl ester 4.25	
Alken 4.17	
E isomer 2.84	
Alkene (2) 2.46	
z isomer (2) 2.46	
e isomer (2) 2.84	
Pentane 2.18	
2-propenoic acid 2.00	
Propanoic acid 2.01	
Germacrene D 1.65	

Butanoic acid 1.08
Alkene (3) 0.99
Camphene 0.95
Beta pinene 0.82
z-isomer n-propynyl ester (etc) 0.73
ylang st-2 0.64
Bicyclo(3.1.1.) hept-2-3ne-2-carboxaldehyde (etc) 0.62
Butanoic acid 2-methyl,-2-methly butyl ester 0.61
z-isomer, n-butyl ester of methyl-2-butenic acid 0.61
Myrtenol 0.60
Paracymene 0.53
1-butanol, 3-methyl-, acetate 0.44
Pinocamphone 0.43
1-borneol .40
Butyl isovalerate 0.39
ethyl-2-methylbutyrate 0.18
alpha campholene aldehyde 0.17
gamma elemene 0.16
2-octen-4-one, 2-methyl 0.15
Beta selinene 0.14
(e) -2-methyl-2-butenic acid isobutyl ester 0.14