



Peak RT (min) Compound name % 1 6 ,11 ETHYL ISOBUTYRATE 0 ,01 2 7 ,06 METHYL 2 -
METHYLBUTYRATE 0 ,01 3 7 ,11 TRICYCLENONE 0 ,02 4 7 ,48 alpha -PINENE 3 ,08 5 7 ,55 alpha -THUYENE 0
,05 6 8 ,21 ETHYL 2 -METHYLBUTYRATE 0 ,02 7 8 ,49 alpha -FENCHENE 0 ,01 8 8 ,77 CAMPHENE 0 ,37 9 9
,78 OCTADIENE DIMETHYL ISOMERE 0 ,01 10 10 ,25 beta -PINENE 3 ,90 11 10 ,73 SABINENE 0 ,78 12 10
,89 PINADIENE 0 ,03 13 11 ,22 delta2 -CARENE 0 ,03 14 11 ,35 p -MENTH - 2 -ENE 0 ,02 15 11 ,92 delta3 -
CARENE 0 ,03 16 12 ,56 beta -MYRCENE 1 ,65 17 12 ,67 alpha -PHELLANDRENE 0 ,24 18 12 ,86 psi -
LIMONENE 0 ,08 19 13 ,36 alpha -TERPINENE 0 ,17 20 13 ,80 1,8 -CINEOLE, 2,3 -DEHYDRO 0 ,05 21 14 ,38
LIMONENE 3 ,01 22 14 ,95 1,8 -CINEOLE 47 ,30 23 15 ,25 MENTHATRIENE ISOMER 0 ,01 24 16 ,23 cis -
beta -OCIMENE 0 ,09 25 16 ,62 trans -ARBUSCULON 0 ,01 26 16 ,85 gamma -TERPINENE 0 ,67 27 17 ,06
Trans -beta -OCIMENE 0 ,53 28 17 ,18 3 -OCTANONE 0 ,02 29 18 ,26 p -CYMENE 1 ,47 30 18 ,97
TERPINOLENE 0 ,08 31 24 ,81 1 -OCTEN - 3 -YL ACETATE 0 ,01 32 25 ,58 3 -OCTANOL 0 ,01 33 28 ,56
alpha,p -DIMETHYLSTYRENE 0 ,02 34 28 ,62 LINALOOL cis -OXIDE 0 ,05 35 30 ,08 Trans -THUYANOL 0 ,06
36 30 ,45 LINALOOL Trans -OXIDE 0 ,05 37 31 ,30 BICYCLOELEMENE 0 ,01 38 32 ,02 alpha -COPAENE 0
,01 39 33 ,29 CAMPHOR 1 ,34 40 33 ,66 beta -BOURBONENE 0 ,02 41 34 ,42 alpha -GURJUNENE 0 ,03 42
35 ,67 LINALOOL 25 ,06 43 35 ,72 cis -THUYANOL 0 ,03 44 36 ,18 LINALYL ACETATE 0 ,62 45 36 ,39
PINOCARVONE 0 ,03 46 36 ,62 BORNYL FORMIATE 0 ,03 47 36 ,83 NOPINONE 0 ,03 48 37 ,21 epsilon -
CADINENE 0 ,06 49 37 ,54 BORNYL ACETATE 0 ,22 50 37 ,72 FENCHOL 0 ,01 51 38 ,16 alpha -trans -
BERGAMOTENE 0 ,02 52 38 ,58 beta -CARYOPHYLLENE 0 ,72 53 38 ,82 TERPINENE - 4 -OL 0 ,31 54 39 ,15
AROMADENDRENE 0 ,02 55 39 ,37 HOTRIENOL 0 ,11 56 40 ,32 MYRTENAL 0 ,05 57 40 ,54
SABINAKETONE 0 ,01 58 41 ,45 EPOXYKETONE COMPOUND 0 ,06 59 41 ,78 delta -TERPENYL ACETATE 0
,24 60 41 ,98 ALLO -AROMADENDRENE 0 ,05 61 42 ,55 CITRONELLYL ACETATE 0 ,01 62 42 ,92 alpha -
HUMULENE 0 ,04 63 43 ,04 delta -TERPINEOL 0 ,36 64 43 ,37 trans -VERBENOL 0 ,03 65 43 ,66 NERAL 0
,02 66 44 ,14 gamma -MUUROLENE 0 ,02 67 44 ,50 TERPENYL ACETATE 0 ,70 68 44 ,60 alpha -TERPINEOL
3 ,66 69 44 ,78 BORNEOL 0 ,49 70 44 ,88 VERBENONE 0 ,02 71 45 ,28 GERMACRENE D 0 ,04 72 45 ,89
ESTER TERPENIQUE 0 ,01 73 46 ,10 alpha -MUUROLENE 0 ,02 74 46 ,30 cis - p -MENTHA -1,2 -DIEN - 8 -
OL 0 ,05 75 46 ,35 NERYL ACETATE 0 ,03 76 46 ,71 GERANIAL 0 ,04 77 46 ,76 BICYCLOGERMACRENE 0 ,14
78 46 ,96 TERPENIC ESTER 0 ,02 79 47 ,39 trans -PIPERITOL 0 ,02 80 47 ,63 METHYL BENZENE ACETATE 0
,01 81 48 ,18 delta -CADINENE 0 ,11 82 48 ,21 GERANYL ACETATE 0 ,07 83 48 ,38 PYRANIC LINALOOL
trans -OXIDE 0 ,03 84 48 ,63 CITRONELLOL 0 ,02 85 49 ,05 p -METHYLACETOPHENONE 0 ,01 86 49 ,53
trans - p -MENTHA -1,2 -DIEN - 8 -OL 0 ,03 87 49 ,85 ETHYL BENZENEACETAT E 0 ,04 88 50 ,10
MYRTENOL 0 ,04 89 50 ,39 alpha -AMORPHENE 0 ,01 90 50 ,58 NEROL 0 ,03 91 51 ,31 NERYL BUTYRATE
0 ,01 92 51 ,52 2 -PHENYLETHYL ACETATE 0 ,02 93 51 ,76 GERANYL PROPIONATE 0 ,03 94 52 ,53 trans -
CARVEOL 0 ,02 95 53 ,22 GERANIOL 0 ,04 96 53 ,35 p -CYMENE - 8 -OL 0 ,04 97 53 ,78 exo - 2 -
HYDROXYCINEOL 0 ,01 98 55 ,80 NERYL METHYLBUTYRATE 0 ,02 99 55 ,90 2 -PHENYLETHYL ALCOHOL 0
,01 100 56 ,75 GERANYL METHYLBUTYRAT E 0 ,01 101 60 ,52 CARYOPHYLLENE OXIDE 0 ,04 102 62 ,94
LEDOL 0 ,02 103 65 ,28 TERPENIC ALCOHOL Mw=152 0 ,01 104 65 ,57 ELEMOL 0 ,07 105 65 ,76
VIRIDIFLOROL 0 ,07 106 67 ,75 SPATHULENOL 0 ,05 107 69 ,98 gamma -EUDESMOL 0 ,03 108 70 ,11 T -
CADINOL 0 ,02 109 70 ,96 THYMOL 0 ,17 110 71 ,85 alpha -MUUROLOL 0 ,01 111 72 ,33 CARVACROL 0
,02 112 72 ,49 alpha -EUDESMOL 0 ,03 113 72 ,77 alpha -CADINOL 0 ,01 114 72 ,91 beta -EUDESMOL 0
,03 115 73 ,09 MAALIOL ISOMER 0 ,05 **TOTAL 100 ,00.**

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CERTIFICATE OF ANALYSIS

Marjoram Essential Oil Organic

Product: Marjoram Essential Oil Organic

Botanical Name: Thymus Mastichina

CAS No. 84837-14-9

Lot No: MEOO1772021

Best Before: November 2023

Origin: Spain

Store in an air tight container; in a cool dry area; away from direct sunlight.

Properties Specifications Results

Appearance: Pale yellow to yellow liquid. Complies

Odor: Characteristic smell. Complies

Solubility: Insoluble in water. Complies

Specific Gravity: 0.890 to 0.930 @20°C Complies

Optical Rotation: -4.0° to 6.0° @ 20°C Complies

Refractive Index: 1.4600 to 1.4700 @ 20°C Complies

1,8-cineole: 30 - 68 % Complies

Linalool: 3 - 48 % Complies

Alpha-pinene: 1 - 4.5 % Complies

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