

# List of Plants

## BETA-PINENE

### Chemid

BETAPINENE

### Dosage

LD50=4,700 mg/kg (orl rat) Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	*Reference
Abies alba	Leaf	218.0	304.0	0.02	*
Abies alba	Resin, Exudate, Sap	--	--		*
Abies spectabilis	Leaf	165.0	255.0	-0.05	*
Achillea millefolium	Leaf	1.0	720.0	0.63	*
Acinos alpinus	Shoot	--	0.5	-0.12	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Acinos alpinus	Shoot	--	0.5	-0.12	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Acinos suaveolens	Shoot	--	11300.0	0.67	Jim Duke's personal files.
Acorus calamus	Rhizome	--	150.0	1.12	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Aeolanthus myriantha	Flower	--	--		Wealth of India.
Aesculus hippocastanum	Flower Essent. Oil	--	122000.0		Jim Duke's personal files.
Agastache foeniculum	Plant	2.0	25.0	-0.41	*
Agastache rugosa	Essential Oil	--	--		Jim Duke's personal files.
Agastache nepetoides	Plant	--	2.0	-0.43	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Agastache urticifolia	Plant	--	46.0	-0.39	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Agastache rugosa	Tissue Culture	--	--		Jim Duke's personal files.
Agathosma betulina	Leaf Essent. Oil	--	--		*
Ageratum conyzoides	Shoot	--	240.0	-0.1	R. Vera, (1993); Chemical composition of the essential oil Ageratum conyzoides L. (Asteraceae) from Reunion, Flavour Fragr. J., Vol.8, 257-260.
Ageratum conyzoides	Plant	0.8	6.5	-0.43	*
Aloysia citrodora	Plant	5.0	35.0	-0.4	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Alpinia galanga	Rhizome Essent. Oil	--	400.0	-1.2	*
Alpinia galanga	Rhizome	1.0	20.0	-1.31	*
Alpinia galanga	Leaf	--	170.0	-0.18	*

<i>Alpinia galanga</i>	Leaf Essent. Oil	--	0.1	-1.02	*
<i>Alpinia officinarum</i>	Rhizome	--	--		Wealth of India.
<i>Amomum compactum</i>	Seed	--	3840.0	-0.22	Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.
<i>Anethum graveolens</i>	Plant	--	--		*
<i>Anethum graveolens</i>	Leaf Essent. Oil	--	13600.0	-0.37	*
<i>Anethum graveolens</i>	Essential Oil	--	--		*
<i>Anethum graveolens</i>	Leaf	1.0	40.0	-0.37	*
<i>Anethum graveolens</i>	Shoot Essent. Oil	--	--		*
<i>Angelica archangelica</i>	Root Essent. Oil	--	--		*
<i>Angelica archangelica</i>	Fruit	--	--		*
<i>Angelica archangelica</i>	Root	2.0	2400.0	2.07	*
<i>Angelica archangelica</i>	Seed Essent. Oil	--	--		*
<i>Aniba rosaeodora</i>	Essential Oil	--	--		*
<i>Annona squamosa</i>	Plant	--	--		*
<i>Apium graveolens</i>	Root Essent. Oil	--	179000.0	1.36	*
<i>Apium graveolens</i>	Leaf Essent. Oil	--	2000.0	-0.93	*
<i>Apium graveolens</i>	Seed	57.0	1530.0	-0.51	*
<i>Apium graveolens</i>	Stem Essent. Oil	--	12000.0	-1.0	*
<i>Apium graveolens</i>	Fruit Essent. Oil	5.0	15000.0	-0.6	*
<i>Apium graveolens</i>	Seed Essent. Oil	5000.0	15000.0	-0.74	*
<i>Aralia cordata</i>	Root	--	37.0	-0.65	*
<i>Artemisia dracunculus</i>	Leaf Essent. Oil	--	--		*
<i>Artemisia dracunculus</i>	Shoot	--	--		*
<i>Artemisia annua</i>	Shoot	3.0	840.0	-0.06	*
<i>Artemisia vulgaris</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Artemisia capillaris</i>	Essential Oil	--	--		*
<i>Artemisia salsoloides</i>	Shoot	--	2600.0	0.06	V. Kaul, P. Weyerstahl, H. Wahlberg, H. Marschall, (1992); Volatile constituents of the essential oil and the absolute of <i>Aremisia salsoloides</i> Willd. from Ladakh, Flavour and Fragrance journal, Vol.7, 299-305.
<i>Artemisia dracunculus</i>	Essential Oil	--	--		*
<i>Artemisia herba-alba</i>	Plant	--	--		*
<i>Artemisia annua</i>	Plant	--	--		*
<i>Ballota nigra</i>	Plant	--	1.0	-0.43	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Boswellia sacra</i>	Resin Essent. Oil	--	4000.0		Abdel Wahab, S. M., Aboutabl, E. A., El-Zalabani, S. M., Fouad, H. A., De Pooter, H. L., El-Fallaha, B. 1987. The Essential Oil of <i>Olibanum</i> . Plant Med. 53 (4): 382-384.
<i>Boswellia serrata</i>	Resin, Exudate, Sap	--	--		Sabinsa: A series of well documented proprietary PR booklets, e.g. Sabinsa Corps. 1998. Bronchial Asthma - Its etiology and control with traditional herbal extracts. Sabinsa Corporation. Piscataway, NJ. 49 pp.
<i>Boswellia serrata</i>	Essential Oil	--	62000.0	0.65	*

Calamintha nepeta	Plant	--	35.0	-0.4	J. Ethnopharmacology, 39: 167.
Calamintha nepeta	Shoot	--	21.0	-0.12	Kirimer, N., Baser, K.H.C., Ozek, T. and Kurcuoglu, M. 1992. Composition of the Essential Oil of Calamintha nepeta subsp. glandulosa. J. Ess. Oil Res. 4:189-190
Calamintha nepeta	Leaf	--	95.0	-0.29	Akgul, A., De Pooter, H.L., and De Buyck, L.F. 1991. The Essential Oils of Calamintha nepeta subsp. glandulosa and Ziziphora clinopodioides from Turkey. J. Ess. Oil Res., 3: 7-10.
Callicarpa americana	Leaf	--	100.0	-0.28	*
Capsicum annuum	Fruit	--	--		*
Capsicum frutescens	Fruit	--	--		*
Carum carvi	Plant	--	20.0	-0.41	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Carum carvi	Fruit	270.0	600.0	-0.28	*
Carum carvi	Seed	40.0	600.0	-0.62	*
Centella asiatica	Essential Oil	--	2000.0	-0.69	Jim Duke's personal files.
Centella asiatica	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Chamaemelum nobile	Plant	--	--		*
Chrysanthemum balsamita	Plant	--	--		*
Chrysanthemum x morifolium	Plant	0.4	1.5	-0.43	Wealth of India.
Chrysanthemum parthenium	Shoot	--	4.0	-0.12	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
Cinnamomum aromaticum	Plant	--	--		*
Cinnamomum verum	Root Bark	--	--		*
Cinnamomum verum	Bark	14.0	76.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cinnamomum verum	Stem Bark	--	--		*
Cinnamomum aromaticum	Bark	--	--		Wealth of India.
Cinnamomum camphora	Plant	--	--		*
Cinnamomum camphora	Leaf	140.0	280.0	-0.02	*
Cinnamomum verum	Leaf	25.0	50.0	-0.36	*
Cinnamomum verum	Leaf Essent. Oil	--	--		*
Cistus ladaniferus	Leaf	6.0	420.0	0.19	*
Citrus paradisi	Leaf	--	55.0	-0.35	*
Citrus limon	Leaf Essent. Oil	--	7000.0	-0.69	Jim Duke's personal files.
Citrus aurantium	Leaf	70.0	170.0	-0.18	*
Citrus sinensis	Fruit	11.0	13.0	-0.3	*
Citrus limon	Petiole	--	595.0		*
Citrus limon	Pericarp Essent. Oil	--	--		Jim Duke's personal files.
Citrus limon	Pericarp	--	--		Jim Duke's personal files.
Citrus reticulata	Fruit	20.0	23.0	-0.3	*
Citrus aurantiifolia	Fruit	90.0	1190.0	-0.26	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus aurantium	Plant	--	--		*

Citrus mitis	Fruit Juice	--	2.0		*
Citrus paradisi	Pericarp	0.7	2.0		*
Citrus limon	Fruit Essent. Oil	--	7000.0	-0.7	Jim Duke's personal files.
Citrus limon	Essential Oil	40.0	1270.0	-0.7	*
Cleonia lusitanica	Leaf	15.0	35.0	-0.38	Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442.
Coleus barbatus	Leaf Essent. Oil	--	40100.0	0.91	Jim Duke's personal files.
Coleus barbatus	Root Essent. Oil	--	54000.0	-0.46	Jim Duke's personal files.
Coleus barbatus	Stem Essent. Oil	--	40100.0	1.0	Jim Duke's personal files.
Collinsonia canadensis	Plant	--	--		*
Coriandrum sativum	Fruit	69.0	83.0	-0.3	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Coriandrum sativum	Seed Essent. Oil	2100.0	13400.0	-0.76	*
Coriandrum sativum	Essential Oil	--	--		*
Coridothymus capitatus	Shoot	--	--	-0.12	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.
Crocus sativus	Silk Stigma Style	--	--		*
Croton lechleri	Plant	--	--		Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.
Croton eluteria	Bark	--	--		*
Cuminum cyminum	Seed Essent. Oil	--	60300.0	-0.4	*
Cuminum cyminum	Seed	48.0	6600.0	0.11	*
Cuminum cyminum	Fruit	48.0	6600.0	-0.09	*
Cunila origanoides	Shoot	--	28.0	-0.12	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Curcuma longa	Rhizome	--	--		*
Curcuma longa	Tuber	--	--		*
Curcuma longa	Leaf	--	215.0	-0.11	*
Curcuma longa	Rhizome Essent. Oil	--	2700.0	-0.05	*
Curcuma longa	Essential Oil	--	2700.0	-0.67	*
Cymbopogon nardus	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cyperus rotundus	Root	--	--		*
Daucus carota	Shoot	--	44.0	-0.12	*
Daucus carota	Seed	50.0	5500.0	-0.02	*
Daucus carota	Root	--	4.0	-0.69	*
Dictamnus albus	Shoot	--	0.7	-0.12	Baser, K.H.C., Kosar, M.Malyer, H. & Ozek, T. 1994. The Essential Oil Composition of Dictamnus albus from Turkey. Planta Med. 60:481-2
Dictamnus albus	Shoot	--	0.5	-0.12	Baser, K.H.C., Kosar, M.Malyer, H. & Ozek, T. 1994. The Essential Oil Composition of Dictamnus albus from Turkey. Planta Med. 60:481-2
Dictamnus albus	Shoot	--	0.7	-0.12	Baser, K.H.C., Kosar, M.Malyer, H. & Ozek, T. 1994. The Essential Oil Composition of Dictamnus albus from Turkey. Planta Med. 60:481-2
Dracocephalum thymiflora	Plant	--	2.0	-0.43	*
Echinacea spp	Fruit	--	--		Economic & Medicinal Plant Research, 5: 253.
Elettaria cardamomum	Fruit Essent. Oil	--	--		*
Elettaria cardamomum	Fruit	70.0	1094.0	-0.26	Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.
Elettaria cardamomum	Root Essent. Oil	--	28000.0	-0.83	*

<i>Elettaria cardamomum</i>	Seed Essent. Oil	3800.0	26000.0	-0.66	*
<i>Elsholtzia blanda</i>	Shoot	--	0.5	-0.12	Bestman, H.J., Rauscher, J., Vostrowsky O., Pant, A.K., Dev. V., Perihar, R. and Mathela, C.S. 1992. Constituents of the Essential Oil of <i>Elsholtzia blanda</i> Benth. (Labiatae). <i>J. Ess. Oils Res.</i> 4: 121-124
<i>Elsholtzia polystachya</i>	Leaf	--	6.4	-0.42	Mathela, C.S., Melkani, A.B., Bisht, J.C., Pant, A.K., Bestmann, H.J., Erler, J., Kobold, U., Rauscher, J. and Vostrowsky, O. 1992. Chemical Varieties of Essential Oils from <i>Elsholtzia polystachya</i> from Two Different Locations in India. <i>Planta Medica</i> 58: 376-379.
<i>Elsholtzia cristata</i>	Shoot	--	0.1	-0.12	Kobold, U., Vostrowsky, O., Bestmann, H.J., Bisht, J.C., Pant, A.K., Melkani, A.B. and Mathela, C.S. 1987. Terpenoids from <i>Elsholtzia</i> Species; II. Constituents of Essential Oil from a New Chemotype of <i>Elsholtzia cristata</i> . <i>Planta Medica</i> 1987: 268-271.
<i>Elsholtzia polystachya</i>	Leaf	--	6.4	-0.42	Mathela, C.S., Melkani, A.B., Bisht, J.C., Pant, A.K., Bestmann, H.J., Erler, J., Kobold, U., Rauscher, J. and Vostrowsky, O. 1992. Chemical Varieties of Essential Oils from <i>Elsholtzia polystachya</i> from Two Different Locations in India. <i>Planta Medica</i> 58: 376-379.
<i>Elsholtzia pilosa</i>	Shoot	--	34.0	-0.12	*
<i>Eucalyptus grandis</i>	Leaf Essent. Oil	--	5000.0	-0.78	*
<i>Eucalyptus tereticornis</i>	Shoot	--	45.0	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus siderophloia</i>	Shoot	--	0.1	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus occidentalis</i>	Shoot	--	20.0	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus polyanthemus</i>	Shoot	--	35.0	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus maideni</i>	Shoot	--	45.0	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus globulus</i>	Shoot	--	7000.0	0.37	*
<i>Eucalyptus fasciculosa</i>	Leaf	--	2.0	-0.43	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus desquamata</i>	Leaf	--	75.0	-0.32	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus dolichorhyncha</i>	Leaf	--	38.0	-0.37	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part I. Subgenus <i>Symphyomyrtus</i> , Section <i>Dumaria</i> , Series <i>Incrassatae</i> . <i>Flavour and Fragrance J.</i> 9(3):113-7
<i>Eucalyptus citriodora</i>	Leaf	20.0	300.0	0.01	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Eucalyptus cladocalyx</i>	Shoot	--	420.0	-0.09	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus nova-anglica</i>	Leaf	4.0	7.0	-0.42	Brophy, J. L., Lassak, E. V., & Boland, D. J. 1992. The Leaf Essential Oils of <i>Eucalyptus nova-anglica</i> . Deane & Maiden. <i>Journal of Essential Oil Res.</i> 4: 29-32.
<i>Eucalyptus lansdowneana</i>	Leaf	--	13.0	-0.41	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus camaldulensis</i>	Shoot	--	39.0	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus behriana</i>	Leaf	--	2.7	-0.43	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364

<i>Eucalyptus populnea</i>	Leaf	--	3.0	-0.42	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus blakelyi</i>	Shoot	--	0.1	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus albens</i>	Shoot	--	380.0	-0.09	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus globulus</i>	Essential Oil	--	2000.0	-0.69	*
<i>Eucalyptus citriodora</i>	Essential Oil	--	--		*
<i>Eucalyptus stoatei</i>	Leaf	--	110.0	-0.27	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part I. Subgenus <i>Symphyomyrtus</i> , Section <i>Dumaria</i> , Series <i>Incrassatae</i> . <i>Flavour and Fragrance J.</i> 9(3):113-7
<i>Eucalyptus saligna</i>	Shoot	--	0.1	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus moluccana</i>	Shoot	--	695.0	-0.07	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus maculata</i>	Shoot	--	240.0	-0.1	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus sparsa</i>	Leaf	--	125.0	-0.24	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus paniculata</i>	Shoot	--	60.0	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus melanophloia</i>	Leaf	--	0.8	-0.43	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus forrestiana</i>	Leaf	--	250.0	-0.06	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part I. Subgenus <i>Symphyomyrtus</i> , Section <i>Dumaria</i> , Series <i>Incrassatae</i> . <i>Flavour and Fragrance J.</i> 9(3):113-7
<i>Eucalyptus odorata</i>	Leaf	--	195.0	-0.14	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus diversicolor</i>	Shoot	--	0.1	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus citriodora</i>	Shoot	--	17000.0	1.07	*
<i>Eucalyptus ochrophloia</i>	Leaf	--	0.5	-0.43	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus cuprea</i>	Leaf	--	45.0	-0.36	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus brassiana</i>	Leaf	--	45.0	-0.36	Singh, A. K., Gupta, K. C., & Brophy, J. J. 1991. Chemical Constituents of the Leaf Essential Oil of <i>Eucalyptus brassiana</i> S. T. Blake. <i>Journal of Essential Oil Res.</i> 3: 45-7.
<i>Eucalyptus astringens</i>	Shoot	--	155.0	-0.11	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus globulus</i>	Fruit Essent. Oil	--	--		*

<i>Eucalyptus citriodora</i>	Leaf Essent. Oil	11600.0	17000.0	-0.21	*
<i>Eucalyptus tetraptera</i>	Leaf	--	100.0	-0.28	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> .Part I.Subgenus <i>Symphyomyrtus</i> ,Section <i>Dumaria</i> ,Series <i>Incrassatae</i> .Flavour and Fragrance J.9(3):113-7
<i>Eucalyptus sideroxylon</i>	Shoot	--	45.0	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus punctata</i>	Shoot	--	1695.0	-0.0	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus melliodora</i>	Shoot	--	100.0	-0.11	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus incrassata</i>	Leaf	--	100.0	-0.28	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> .Part I.Subgenus <i>Symphyomyrtus</i> ,Section <i>Dumaria</i> ,Series <i>Incrassatae</i> .Flavour and Fragrance J.9(3):113-7
<i>Eucalyptus leucoxylon</i>	Leaf	--	14.0	-0.41	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus oviformis</i>	Shoot	--	560.0	-0.08	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus viridis</i>	Leaf	--	2.0	-0.43	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus erythrandra</i>	Leaf	--	75.0	-0.32	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> .Part I.Subgenus <i>Symphyomyrtus</i> ,Section <i>Dumaria</i> ,Series <i>Incrassatae</i> .Flavour and Fragrance J.9(3):113-7
<i>Eucalyptus globulus</i>	Leaf	--	--		Leung, A.Y., <i>Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics</i> , John Wiley & Sons, New York, 1980.
<i>Eucalyptus dealbata</i>	Shoot	--	60.0	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus porosa</i>	Leaf	--	100.0	-0.28	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus ceratocorys</i>	Leaf	--	60.0	-0.34	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> .Part I.Subgenus <i>Symphyomyrtus</i> ,Section <i>Dumaria</i> ,Series <i>Incrassatae</i> .Flavour and Fragrance J.9(3):113-7
<i>Eucalyptus intertexta</i>	Leaf	--	30.0	-0.38	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus largisparsa</i>	Leaf	--	4.6	-0.42	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus botryoides</i>	Shoot	--	0.1	-0.12	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus bosistoana</i>	Shoot	--	130.0	-0.11	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus angulosa</i>	Leaf	--	12.0	-0.41	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> .Part I.Subgenus <i>Symphyomyrtus</i> ,Section <i>Dumaria</i> ,Series <i>Incrassatae</i> .Flavour and Fragrance J.9(3):113-7
<i>Eucalyptus globulus</i>	Leaf Essent. Oil	3900.0	5000.0	-0.78	*
<i>Ferula gummosa</i>	Plant	--	--		*

<i>Ferula assa-foetida</i>	Essential Oil	--	--		*
<i>Ficus carica</i>	Leaf Essent. Oil	--	--		*
<i>Foeniculum vulgare</i>	Seed	1.0	780.0	-0.6	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Foeniculum vulgare</i>	Plant	--	10.0	-0.42	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Foeniculum vulgare</i>	Essential Oil	1000.0	6000.0	-0.6	Jim Duke's personal files.
<i>Foeniculum vulgare</i>	Fruit	1.0	780.0	-0.27	*
<i>Glechoma hederacea</i>	Plant	3.0	17.0	-0.42	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Hedeoma pulegioides</i>	Pollen Or Spore	--	2000.0		*
<i>Hedeoma pulegioides</i>	Plant	12.0	180.0	-0.24	*
<i>Hedeoma hispida</i>	Plant	--	22.0	-0.41	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Hedeoma reverchonii</i>	Plant	--	651.0	0.27	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Hedeoma drummondii</i>	Plant	--	540.0	0.15	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Hedychium flavum</i>	Shoot	--	4960.0	0.23	*
<i>Helianthus annuus</i>	Flower	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Helichrysum angustifolium</i>	Plant	--	--		*
<i>Hesperis matronalis</i>	Flower	--	--		Nielsen, J. K., Jakobsen, H. B., Friis, P., Hansen, K., Moller, J., Olsen, C. E. 1995. Asynchronous Rhythmus in the Emission of Volatiles from <i>Hesperis matronalis</i> Flowers. <i>Phytochemistry</i> , 38(4): 847-851.
<i>Houttuynia cordata</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Houttuynia cordata</i>	Shoot Essent. Oil	--	--		*
<i>Humulus lupulus</i>	Essential Oil	--	--		*
<i>Humulus lupulus</i>	Fruit	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Humulus lupulus</i>	Plant	--	--		*
<i>Hypericum perforatum</i>	Shoot	--	--		*
<i>Hypericum perforatum</i>	Plant	335.0	6055.0	6.1	*
<i>Hypericum perforatum</i>	Fruit Essent. Oil	--	--		*
<i>Hypericum perforatum</i>	Leaf Essent. Oil	--	--		*
<i>Hyptis suaveolens</i>	Shoot	--	80.0	-0.12	Mallvarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of <i>Hyptis suaveolens</i> (L.) Poit. <i>J. Ess. Oil Res.</i> 5: 321.
<i>Hyptis suaveolens</i>	Shoot	--	80.0	-0.12	Mallvarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of <i>Hyptis suaveolens</i> (L.) Poit. <i>J. Ess. Oil Res.</i> 5: 321.
<i>Hyssopus officinalis</i>	Shoot	--	1315.0	-0.03	Tsankova, E.T., Konatchiev, A.N. and Genova, E.M. 1993. Chemical Composition of the Essential Oils of Two <i>Hyssopus officinalis</i> cultivars. <i>J. Ess. Oil Res.</i> 5: 609-611.
<i>Hyssopus officinalis</i>	Essential Oil	--	102000.0	1.53	*
<i>Hyssopus officinalis</i>	Shoot	--	1750.0	0.0	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis</i> L.) <i>J. Agric. Food Chem.</i> 42: 776-781.



Hyssopus officinalis	Shoot	--	930.0	-0.06	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781.
Hyssopus officinalis	Shoot	--	168000.0	11.65	*
Hyssopus officinalis	Shoot	--	1050.0	-0.05	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781.
Hyssopus officinalis	Shoot	--	620.0	-0.08	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781.
Hyssopus officinalis	Shoot	--	780.0	-0.07	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781.
Hyssopus officinalis	Leaf	66.0	4580.0	6.33	*
Hyssopus officinalis	Shoot	--	1315.0	-0.03	Tsankova, E.T., Konatchiev, A.N. and Genova, E.M. 1993. Chemical Composition of the Essential Oils of Two Hyssopus officinalis cultivars. J. Ess. Oil Res. 5: 609-611.
Hyssopus officinalis	Shoot	--	1080.0	-0.05	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781.
Hyssopus officinalis	Shoot	--	520.0	-0.08	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781.
Hyssopus officinalis	Shoot	--	790.0	-0.07	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781.
Illicium verum	Plant	--	1.0	-0.43	*
Illicium verum	Fruit	--	1.0	-0.3	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Isanthus brachiatus	Plant	--	136.0	-0.29	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Juniperus communis	Fruit	22.0	580.0	-0.28	*
Juniperus communis	Essential Oil	--	25000.0	-0.18	*
Lantana camara	Shoot	--	28.0	-0.12	*
Larrea tridentata	Essential Oil	--	--		*
Laurus nobilis	Leaf Essent. Oil	1600.0	54000.0	1.57	*
Laurus nobilis	Leaf	130.0	2080.0	2.64	*
Lavandula angustifolia	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lavandula x intermedia	Plant	15.0	70.0	-0.36	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lavandula x hybrida	Shoot	395.0	585.0	-0.08	Tucker, A.O., Maciarelllo, M.J., Angell, S., Espaillat, J.R., and French, E.C. 1993. The Essential Oil of Lavandula x hybrida Balb. ex Ging., a Distinct Hybrid from L. x heterophylla Poir. (Labiatae). J. Ess. Oil Res. 5: 443-445.
Lavandula latifolia	Plant	60.0	374.0	-0.03	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Leonotis leonurus	Se	--	0.5		Pedro, L.G., Barroso, J.G., Marques, N.T., Ascensao, L., Pais, M.S.S. and Scheffer, J.J.C. 1991. Composition of the Essential Oil from Sepals of Leonotis leonurus R. Br. J. Ess. Oil Res. 3: 451-3
Leonurus cardiaca	Plant	1.0	2.0	-0.43	*
Lepechinia schiediana	Plant	--	3000.0	2.8	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lepechinia calycina	Plant	--	90.0	-0.34	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Levisticum officinale	Root	21.0	210.0	-0.45	*
Lindera benzoin	Fruit	18.0	26.0	-0.3	*
Lindera benzoin	Twig	24.0	26.0		*

Lindera benzoin	Leaf	--	2.0	-0.43	*
Litsea glaucescens	Shoot	80.0	110.0	-0.11	Tucker, et al, EB46(1):21-24.1992
Lycopus virginicus	Plant	199.0	498.0	0.1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lycopus uniflorus	Plant	7.0	112.0	-0.31	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Magnolia officinalis	Plant	--	--		*
Magnolia denudata	Flower	--	--		*
Magnolia denudata	Twig	--	--		*
Magnolia denudata	Bulb	--	--		*
Magnolia denudata	Leaf	--	--		*
Magnolia denudata	Bark	--	--		*
Mangifera indica	Flower	--	--		*
Marrubium vulgare	Plant	--	--		*
Melaleuca alternifolia	Essential Oil	300.0	7000.0	-0.57	*
Melaleuca linariifolia	Leaf	150.0	200.0	-0.13	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Melaleuca alternifolia	Root Essent. Oil	--	10500.0	-1.09	*
Melaleuca cajuputi	Leaf	--	130.0	-0.24	*
Melaleuca alternifolia	Leaf	59.0	950.0	0.97	*
Melaleuca alternifolia	Leaf Essent. Oil	--	16000.0	-0.25	*
Mentha x piperita	Leaf	10.0	400.0	0.16	*
Mentha longifolia	Shoot	28.0	1160.0	-0.04	*
Mentha aquatica	Shoot	--	24.0	-0.12	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Shoot	--	13.0	-0.12	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha pulegium	Shoot	--	--		*
Mentha spicata	Leaf	9.0	3425.0	4.62	*
Mentha arvensis var. piperascens	Plant	10.0	1445.0	1.12	*
Mentha aquatica	Shoot	--	27.0	-0.12	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Leaf	15.0	315.0	0.04	*
Mentha spicata	Essential Oil	3000.0	137000.0	2.31	*
Mentha pulegium	Essential Oil	2000.0	14400.0	-0.41	*
Mentha pulegium	Plant	20.0	288.0	-0.12	*
Mentha x rotundifolia	Leaf	9.0	330.0	0.06	*
Mentha aquatica	Shoot	--	13.0	-0.12	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.

<i>Mentha aquatica</i>	Shoot	--	20.0	-0.12	Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
<i>Mentha arvensis</i> var. <i>piperascens</i>	Leaf	--	800.0	0.75	*
<i>Mentha spicata</i>	Shoot	--	--		*
<i>Micromeria varia</i>	Shoot	--	170.0	-0.11	Pedro, L.G., et al. 1995. Composition of the Essential oil of <i>Micromeria varia</i> Benth. ssp. <i>thymoides</i> (Sol. ex Lowe) Perez var. <i>thymoides</i> , and endemic species of the Madeira Archipelago. <i>flav. &amp; Fragr. J.</i> 10(3): 199-202.
<i>Micromeria teneriffae</i>	Leaf	--	110.0	-0.27	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
<i>Micromeria croatica</i>	Leaf	--	15.0	-0.41	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
<i>Micromeria fruticosa</i>	Leaf	--	960.0	0.99	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
<i>Micromeria juliana</i>	Leaf	--	50.0	-0.36	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
<i>Micromeria congesta</i>	Leaf	275.0	320.0	0.04	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
<i>Micromeria fruticosa</i>	Shoot	--	400.0	-0.09	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of <i>Micromeria fruticosa</i> (L.) Druce subsp. <i>barbata</i> (Boiss et. Ky.), P.H. Davis. <i>Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res</i> 3: 477-479.
<i>Micromeria myrtifolia</i>	Shoot	--	0.5	-0.12	Ozek, T., Kirimer, N., and Baser, K.H.C. 1992. Composition of the Essential Oil of <i>Micromeria myrtifolia</i> Boiss. et Hohen. <i>J. Ess. Oil Res.</i> , 4: 79-80.
<i>Micromeria varia</i>	Shoot	--	170.0	-0.11	*
<i>Micromeria dalmatica</i>	Leaf	--	85.0	-0.3	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
<i>Micromeria thymifolia</i>	Leaf	--	85.0	-0.3	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
<i>Micromeria fruticosa</i>	Shoot	--	400.0	-0.09	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of <i>Micromeria fruticosa</i> (L.) Druce subsp. <i>barbata</i> (Boiss et. Ky.), P.H. Davis. <i>Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res</i> 3: 477-479.
<i>Minthostachys mollis</i>	Shoot	3.0	5.0	-0.12	Alkire, B.H., Tucker, A.O., and Maciarelo, M.J. 1994. Tipo ( <i>Minthostachys mollis</i> (Lamiaceae): An Ecuadorian Mint. <i>Econ. Bot.</i> 48(1): 60-64.
<i>Moldavica thymiflora</i>	Plant	--	2.0	-0.43	Lawrence, B.M., <i>Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.</i>
<i>Monarda fistulosa</i>	Plant	3.0	93.0	-0.34	Lawrence, B.M., <i>Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.</i>
<i>Monarda didyma</i>	Flower	--	7.0	-0.58	<i>Flavour and Fragrance Journal</i> , 6: 80.
<i>Monarda citriodora</i>	Flower	--	0.1	-0.61	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. <i>J. Ess. Oil Res.</i> 6: 27-9.
<i>Monarda didyma</i>	Plant	25.0	240.0	-0.18	Lawrence, B.M., <i>Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.</i>
<i>Monarda punctata</i>	Plant	10.0	990.0	0.63	Lawrence, B.M., <i>Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.</i>
<i>Monarda didyma</i>	Leaf	45.0	80.0	-0.31	*
<i>Monarda citriodora</i>	Leaf	--	50.0	-0.36	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. <i>J. Ess. Oil Res.</i> 6: 27-9.
<i>Murraya koenigii</i>	Leaf	--	85.0	-0.3	*
<i>Myrciaria dubia</i>	Fruit	--	--		*
<i>Myristica fragrans</i>	Leaf Essent. Oil	--	--		*
<i>Myristica fragrans</i>	Essential Oil	80000.0	150000.0	2.6	*
<i>Myristica fragrans</i>	Seed	--	--		*

Myristica fragrans	Seed Essent. Oil	78000.0	191000.0	0.58	*
Myrrhis odorata	Essential Oil	--	200.0	-0.73	Hussain, R.A., et. al. 1990. Sweetening Agents of Plant Origin: Phenylpropanoid Constituents of Seven Sweet-Tasting Plants. Econ. Bot. 44 2: 174-182. Program Collab. Res. Pharm. Sci. Coll. Pharmacy Univ. Illinois at Chicago IL 60680, USA.
Myrtus communis	Plant	2.0	8.0	-0.43	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Nardostachys jatamansi	Plant	--	--		*
Nepeta racemosa	Shoot	--	255.0	-0.1	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.
Nepeta racemosa	Shoot	--	255.0	-0.1	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.
Nepeta cilicia	Shoot	--	13.0	-0.12	*
Ocimum gratissimum	Plant	3.0	35.0	-0.4	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Ocimum tenuiflorum	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Ocimum suave	Shoot	--	12.0	-0.12	J. Nat. Prod. 44: 308.
Ocimum basilicum	Leaf Essent. Oil	7300.0	2000.0	-0.93	*
Ocimum gratissimum	Leaf	19.0	41.0	-0.37	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.
Ocimum kilimandscharicum	Leaf	260.0	485.0	0.29	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum killimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.
Ocimum basilicum	Essential Oil	5500.0	16000.0	-0.38	*
Ocimum basilicum	Plant	3.0	160.0	-0.26	*
Ocimum gratissimum	Shoot	--	90.0	-0.11	Vostrowsky, O., Garbe, W., Bestmann, H.J. and Maia, J.G.S. 1990. Essential Oil of Alfavaca, Ocimum gratissimum, from Brazilian Amazon. Zeitschr. Naturforschung 45(C): 1073-6.
Ocimum gratissimum	Flower	10.0	37.0	-0.45	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.
Ocimum kilimandscharicum	Flower	205.0	675.0	2.4	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum killimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.
Ocimum basilicum	Shoot Essent. Oil	8200.0	9300.0	1.12	*
Oenanthe javanica	Shoot	--	--		*
Origanum vulgare	Plant	1.0	312.0	-0.1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Origanum majorana	Plant	6.0	34.0	-0.4	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Origanum vulgare	Plant	--	2.5	-0.43	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum vulgare	Shoot	--	45.0	-0.12	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.
Origanum syriacum	Shoot	--	30.0	-0.12	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum sipyleum	Shoot	--	165.0	-0.11	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of Origanum sipyleum of Turkish Origin. J. Ess. Oil Res. 4: 139-142.
Origanum onites	Shoot	--	--	-0.12	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Frag. J. 8: 331-7.
Origanum vulgare	Essential Oil	--	12900.0	-0.44	*
Origanum majorana	Essential Oil	--	4000.0	-0.64	*
Origanum vulgare	Plant	--	3.5	-0.43	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.

<i>Origanum vulgare</i>	Plant	--	1.0	-0.43	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
<i>Origanum syriacum</i>	Shoot	--	560.0	-0.08	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of <i>Origanum syriacum</i> L. Essential Oil. <i>J. Ess. Oil Res.</i> 3: 121-123.
<i>Origanum sipyleum</i>	Shoot	--	13.0	-0.12	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. <i>J. Ess. Oil Res.</i> 4: 139-142.
<i>Origanum onites</i>	Plant	--	3.0	-0.43	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Origanum vulgare</i>	Shoot Essent. Oil	800.0	1100.0	-1.44	*
<i>Origanum vulgare</i>	Plant	--	50.0	-0.38	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
<i>Origanum minutiflorum</i>	Shoot	31.0	39.0	-0.12	Baser, K.H.C., Tumen, G., Sezik, E. 1991. The Essential Oil of <i>Origanum minutiflorum</i> O. Schwarz and P.H. Davis. <i>J. Ess. Oil Res.</i> 3: 445-446.
<i>Origanum syriacum</i>	Shoot	--	560.0	-0.08	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of <i>Origanum syriacum</i> L. Essential Oil. <i>J. Ess. Oil Res.</i> 3: 121-123.
<i>Origanum sipyleum</i>	Shoot	--	55.0	-0.12	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. <i>J. Ess. Oil Res.</i> 4: 139-142.
<i>Origanum sipyleum</i>	Shoot	--	165.0	-0.11	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. <i>J. Ess. Oil Res.</i> 4: 139-142.
<i>Origanum onites</i>	Shoot	--	--	-0.12	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. &amp; Frag. J.</i> 8: 331-7.
<i>Pastinaca sativa</i>	Root	--	--		*
<i>Pelargonium roseum</i>	Shoot	--	18.0	-0.12	*
<i>Pelargonium graveolens</i>	Essential Oil	--	--		*
<i>Perilla frutescens</i>	Shoot Essent. Oil	--	8000.0	0.72	Nguyen, X. D., La, D. M., Lu'u, D. C., Leclercq, P. A. 1995. Essential Oil Constituents from the Aerial Parts of <i>Perilla frutescens</i> (L.) Britton. <i>J. Essent. Oil Res.</i> , 7(4): 429-432.
<i>Perilla frutescens</i>	Leaf Essent. Oil	--	6000.0	-0.73	Kang, R., Helms, R., Stout, M.J., Jaber, H., Chen, Z., and Nakatsu, T. 1992. Antimicrobial Activity of the Volatile Constituents of <i>Perilla frutescens</i> and Its Synergistic Effects with Polygodial. <i>J. Agric. Food Chem.</i> , 40: 2328-2330.
<i>Petroselinum crispum</i>	Seed Essent. Oil	--	378000.0	1.98	*
<i>Petroselinum crispum</i>	Seed	1.0	26460.0	2.54	*
<i>Petroselinum crispum</i>	Fruit Essent. Oil	2000.0	203900.0	1.79	*
<i>Petroselinum crispum</i>	Leaf	--	2.4	-0.43	*
<i>Peumus boldus</i>	Leaf	160.0	200.0	-0.13	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Picea glauca</i>	Twig	--	--		*
<i>Pimenta racemosa</i>	Leaf	1.0	35.0	-0.38	*
<i>Pimenta dioica</i>	Plant	--	--		*
<i>Pimpinella anisum</i>	Seed	--	1.0	-0.69	*
<i>Pimpinella anisum</i>	Fruit	--	1.0	-0.3	*
<i>Pinus sylvestris</i>	Twig	--	--		*
<i>Pinus sylvestris</i>	Leaf Essent. Oil	--	65000.0	2.1	*
<i>Pinus gerardiana</i>	Resin, Exudate, Sap	--	70000.0	-0.86	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pinus walliciana</i>	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

<i>Pinus sylvestris</i>	Leaf	200.0	1500.0	1.78	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Pinus mugo</i>	Leaf	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Pinus sylvestris</i>	Flower	--	--		*
<i>Pinus roxburghii</i>	Resin, Exudate, Sap	50000.0	100000.0	-0.76	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pinus sylvestris</i>	Root Essent. Oil	175000.0	200000.0	1.66	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Pinus elliottii</i>	Leaf	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Pinus insularis</i>	Resin, Exudate, Sap	26000.0	650000.0	1.22	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pinus sylvestris</i>	Essential Oil	--	--		*
<i>Pinus kesiya</i>	Resin, Exudate, Sap	26000.0	650000.0	1.22	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pinus sylvestris</i>	Resin, Exudate, Sap	--	--		*
<i>Pinus palustris</i>	Resin, Exudate, Sap	63600.0	79500.0	-0.83	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Piper nigrum</i>	Fruit Essent. Oil	85000.0	138000.0	0.96	*
<i>Piper nigrum</i>	Fruit	--	2355.0	-0.22	*
<i>Piper cubeba</i>	Fruit Essent. Oil	--	--		*
<i>Piper nigrum</i>	Essential Oil	--	--		*
<i>Piper auritum</i>	Leaf	--	--		Tramil
<i>Piper cubeba</i>	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Piper nigrum</i>	Seed Essent. Oil	--	--		*
<i>Pistacia lentiscus</i>	Plant	--	--		*
<i>Pogostemon cablin</i>	Plant	--	--		*
<i>Polygonum hydropiper</i>	Essential Oil	--	--		*
<i>Porophyllum ruderale</i>	Plant	3.0	4.0	-0.43	Loayza, I., de Groot, W., Lorenzo, D. et al. 1999. Composition of the essential oil of <i>Porophyllum ruderale</i> (Jacq.) Cass. from Bolivia. <i>Flav. &amp; Fragr. J.</i> 14: 393-8.
<i>Prunella vulgaris</i>	Essential Oil	--	--		*
<i>Prunella vulgaris</i>	Plant	--	785.0	0.41	*
<i>Psidium guajava</i>	Leaf Essent. Oil	--	--		*
<i>Psidium guajava</i>	Fruit	--	--		*
<i>Psidium guajava</i>	Pericarp Essent. Oil	--	--		*
<i>Ptychopetalum olacoides</i>	Root Essent. Oil	--	78000.0	-0.11	Uber Bucek, E., Fournier, G., Dadoun, H. 1987. Volatile Constituents of <i>Ptychopetalum olacoides</i> Root Oil. <i>Planta Med.</i> 53, 2: 231.
<i>Pycnanthemum verticillatum</i>	Shoot	--	63.0	-0.12	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum setosum</i>	Shoot	40.0	527.0	-0.08	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum pilosum</i>	Flower	38.0	140.0	0.01	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum loomisii</i>	Shoot	825.0	1218.0	-0.04	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum clinopodioides</i>	Shoot	63.0	66.0	-0.12	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum torreyi</i>	Shoot	--	20.0	-0.12	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum pycnanthemoides</i>	Shoot	117.0	290.0	-0.1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum muticum</i>	Shoot	29.0	150.0	-0.11	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

<i>Pycnanthemum incanum</i>	Shoot	44.0	95.0	-0.11	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum californicum</i>	Shoot	--	108.0	-0.11	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum virginianum</i>	Shoot	6.0	145.0	-0.11	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum tenuifolium</i>	Shoot	1.0	100.0	-0.11	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum pilosum</i>	Leaf	38.0	140.0	-0.22	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum montanum</i>	Shoot	7.0	56.0	-0.12	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum beadleii</i>	Shoot	--	14.0	-0.12	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum curvipes</i>	Shoot	--	42.0	-0.12	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Ravensara aromatica</i>	Leaf	--	60.0	-0.34	*
<i>Ravensara aromatica</i>	Bark	--	22.0	-1.0	*
<i>Ribes nigrum</i>	Fruit	--	130000.0	3.87	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rosa centifolia</i>	Essential Oil	--	--		*
<i>Rosa gallica</i>	Essential Oil	--	--		*
<i>Rosa damascena</i>	Essential Oil	--	--		*
<i>Rosmarinus officinalis</i>	Shoot	--	285.0	-0.1	Tucker, A. O. and Maciarelo, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986.
<i>Rosmarinus officinalis</i>	Leaf	--	17.0	-0.4	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of <i>Rosmarinus officinalis</i> L. from Egypt. Flavour and Fragrance J. 9: 29-33.
<i>Rosmarinus x lavandulaceus</i>	Shoot	0.1	210.0	-0.11	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
<i>Rosmarinus officinalis</i>	Leaf Essent. Oil	--	21000.0	-0.01	*
<i>Rosmarinus officinalis</i>	Shoot	75.0	200.0	-0.11	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
<i>Rosmarinus officinalis</i>	Plant	17.0	1425.0	1.1	*
<i>Rosmarinus tomentosus</i>	Shoot	90.0	295.0	-0.1	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
<i>Rosmarinus eriocalyx</i>	Shoot	33.0	105.0	-0.11	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
<i>Rosmarinus officinalis</i>	Essential Oil	34000.0	85000.0	1.16	*
<i>Rosmarinus officinalis</i>	Resin, Exudate, Sap	--	--		*
<i>Rosmarinus officinalis</i>	Shoot	135.0	530.0	-0.08	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
<i>Rosmarinus officinalis</i>	Leaf	--	17.0	-0.4	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of <i>Rosmarinus officinalis</i> L. from Egypt. Flavour and Fragrance J. 9: 29-33.
<i>Rosmarinus eriocalyx</i>	Shoot	33.0	105.0	-0.11	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
<i>Rosmarinus x mendizabali</i>	Shoot	130.0	485.0	-0.09	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.

Rosmarinus officinalis	Shoot Essent. Oil	--	4400.0	-0.41	*
Ruta graveolens	Plant	--	--		*
Salvia officinalis	Leaf Essent. Oil	21000.0	55000.0	1.62	*
Salvia dorisiana	Shoot	2.2	2.4	-0.12	Tucker, A.O. & Maciarello, M.J. 1994. The Essential Oil of Salvia dorisiana Standley. J. Ess. Oil Res. 6: 97-8.
Salvia sclarea	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Salvia officinalis	Essential Oil	11300.0	26100.0	-0.15	*
Salvia canariensis	Leaf	--	28.0	-0.39	Casnigueral,S., Iglesias,J., Vila,R., Virgili,A. and Ibanez,C.1994. The Essential Oil from Leaves of Salvia canariensis L. Flav. & Frag. J. 9:201-204. S. Canigueral, Facultat de Farmacia, Universitat de Barcelona, Ave.Diagonal 643,E-08028, Barcelone Spain
Salvia officinalis	Plant	20.0	1540.0	1.23	*
Salvia officinalis	Et	--	18000.0		*
Salvia gilliesii	Shoot	--	4.5	-0.12	Velasco-Negueruela, A. et al. 1993. The Essential Oil of Salvia gilliesii Benth. J. Ess. Oil Res. 5: 319-320.
Salvia triloba	Plant	230.0	1590.0	1.28	*
Sarracenia flava	Essential Oil	--	--		*
Sassafras albidum	Leaf	0.06	2.4	-0.43	*
Satureja parvifolia	Shoot	--	22.0	-0.12	Zygadlo, J.A., Merino. E.F., Maestri, D.M., Guzman, C.A. and Espinar, L.A. 1993. The Essential Oils of Satureja odora and Satureja parvifolia from Argentina. J. Ess. Oil Res. 5: 549-51.
Satureja cuneifolia	Shoot	--	60.0	-0.12	Tumen, G. 1991. The Volatile Constituents of Satureja cuneifolia. J. Ess. Oil Res., 3: 365-366.
Satureja obovata	Leaf	--	--		Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja obovata	Leaf	--	0.01	-0.43	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja glabella	Plant	--	50.0	-0.38	*
Satureja montana	Essential Oil	--	17000.0	-0.35	*
Satureja odora	Shoot	--	18.0	-0.12	Zygadlo, J.A., Merino. E.F., Maestri, D.M., Guzman, C.A. and Espinar, L.A. 1993. The Essential Oils of Satureja odora and Satureja parvifolia from Argentina. J. Ess. Oil Res. 5: 549-51.
Satureja cilicica	Shoot	--	22.0	-0.12	Tumen, G. Baser, K.H.C. and Kirimer, N. 1993. The Essential Oil of Satureja cilicica P.H. Davis. J. Ess. Oil Res. 5: 547-548.
Satureja obovata	Leaf	--	--		Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja montana	Plant	1.0	55.0	-0.38	*
Satureja douglasii	Plant	130.0	572.0	0.18	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Satureja grandiflora	Shoot	--	10.0	-0.12	Carnat, A., Chossegras, A., and Lamaison, J. 1991. The Essential Oil of Satureja grandiflora (L.) Scheele from France. J. Ess. Oil Res., 3: 361-362
Satureja thymbra	Shoot	--	185.0	-0.11	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.
Satureja obovata	Shoot	95.0	145.0	-0.11	Fitoterapia No.60: 277.
Satureja obovata	Leaf	--	--		Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja hortensis	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Schinus molle	Fruit	--	--		*



Sideritis germanicolpitana	Plant	122.0	123.0	-0.3	J. Essential Oil, 4: 533.
Sideritis athoa	Shoot	--	310.0	-0.1	Ozek, T., Baser, K.H.C. and Tumen, G. 1993. The Essential Oil of Sideritis athoa Papanikolaou Et Kokkini. J. Ess. Oil Res. 5: 669-670.
Sideritis pauli	Shoot	--	110.0	-0.11	Burzaco, A., Velasco-Negueruela, A. and Perez-Alonso, M.J. 1992. Essential Oil Analysis of Sideritis pauli Pau. FFJ7: 47-8. 1992.
Stevia rebaudiana	Flower	--	70.0	-0.3	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
Stevia rebaudiana	Leaf	--	20.0	-0.4	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
Syzygium aromaticum	Fruit	--	--		*
Syzygium aromaticum	Plant	--	--		*
Tagetes filifolia	Leaf Essent. Oil	--	--		Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
Tagetes minuta	Leaf Essent. Oil	--	--		Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
Tagetes minuta	Essential Oil	--	14800.0	-0.4	*
Tagetes minuta	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Tamarindus indica	Fruit Essent. Oil	--	--		*
Tanacetum parthenium	Essential Oil	--	--		*
Tanacetum parthenium	Fruit Essent. Oil	--	1000.0	-0.77	*
Tanacetum parthenium	Shoot	--	4.0	-0.12	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
Telosma cordata	Flower	--	31.0	-0.47	K. Furukawa, T. Arai, S. Hashimoto, (1993); Volatile components of Telosma cordata Merrill flowers, Flavour Fragr. J., Vol 8, 221-223.
Tetraclinis articulata	Resin, Exudate, Sap	--	--		*
Teucrium salviastrum	Shoot	--	1.71	-0.12	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.
Teucrium kotschyanum	Leaf	--	--	-0.43	Arnold, N., Bellomaria, B., Velentini G. and Rifaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Teucrium cyprium	Leaf	--	115.0	-0.26	Arnold, N., Bellomaria, B., Velentini G. and Rifaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Teucrium oxylepis	Shoot	--	0.75	-0.12	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.
Teucrium pseudoscorodonia	Shoot	--	--		Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.
Teucrium gnaphalodes	Shoot	--	35.0	-0.12	Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian Teucrium Species. J. Ess. Oil Res. 5: 397-402.
Teucrium asiaticum	Shoot	--	1.03	-0.12	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.
Teucrium scorodonia	Shoot	--	5.91	-0.12	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.

Teucrium oxylepis	Shoot	--	0.15	-0.12	Velasco-Neguera, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9.
Teucrium micropodioides	Leaf	--	705.0	0.61	Arnold, N., Bellomaria, B., Velentini G. and Rifaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
Teucrium divaricatum	Leaf	--	185.0	-0.16	Arnold, N., Bellomaria, B., Velentini G. and Rifaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
Teucrium polium	Shoot	--	60.0	-0.12	Perez-Alonso, M.J. Velasco-Neguera, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian Teucrium Species. <i>J. Ess. Oil Res.</i> 5: 397-402.
Teucrium polium	Plant	--	--		Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Thymus zygis	Shoot	20.0	200.0	-0.11	De Cunha, A.P. and Salguiero, L.R. 1991. The Chemical Polymorphism of Thymus zygis ssp. sylvestris from Central Portugal. <i>J. Ess. Oil Res.</i> 3: 409-12.
Thymus funkii	Shoot	--	490.0	-0.09	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. <i>Flav. &amp; Fragr. J.</i> 10(6): 379-383.
Thymus longicaulis	Shoot	--	--		Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.
Thymus serpyllum	Plant	1.0	19.0	-0.41	*
Thymus capitatus	Shoot	--	--	-0.12	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. &amp; Fragr. J.</i> 8: 331-7.
Thymus vulgaris	Essential Oil	--	3400.0	-0.65	*
Thymus riararum	Shoot	--	35.0	-0.12	Iglesias, J., Vila, R., Canigüeral, S., Bellakdhar, and Idrissi, A. 1991. Analysis of the Essential Oil of Thymus riararum. <i>J. Ess. Oil Res.</i> 3: 43-4.
Thymus zygis	Shoot	--	8.0	-0.12	Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. Thymus zygis Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. <i>JEO5:</i> 153-8.
Thymus longicaulis	Shoot	--	--		Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.
Thymus x citriodorus	Plant	--	10.0	-0.42	Stahl-Biskup, E. and Holthuijzen, J. 1995. Essential oil and glycosidally bound volatiles of lemon-scented thyme, Thymus x citriodorus (Pers.) Schreb. <i>Flav. &amp; Fragr. J.</i> 10: 225-229.
Thymus orospedanus	Plant	--	1.0	-0.43	<i>J. Nat. Prod.</i>
Thymus capitatus	Plant	--	10.0	-0.42	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Thymus broussonettii	Shoot	--	40.0	-0.12	Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjilali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of Thymus broussonettii, T. zygis and T. satorejoides. <i>J. Ess. Oil Res.</i> 5: 45-53.
Thymus zygis	Shoot	--	70.0	-0.12	Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjilali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of Thymus broussonettii, T. zygis and T. satorejoides. <i>J. Ess. Oil Res.</i> 5: 45-53.
Thymus funkii	Shoot	--	490.0	-0.09	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. <i>Flav. &amp; Fragr. J.</i> 10(6): 379-383.
Thymus longicaulis	Shoot	--	24.0	-0.12	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.
Thymus vulgaris	Plant	15.0	420.0	0.02	*
Thymus mastichina	Plant	200.0	270.0	-0.14	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Thymus satorejoides	Shoot	--	310.0	-0.1	Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjilali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of Thymus broussonettii, T. zygis and T. satorejoides. <i>J. Ess. Oil Res.</i> 5: 45-53.

Trachyspermum ammi	Fruit	372.0	1400.0	-0.25	*
Trichostemma dichotomum	Shoot	--	23.0	-0.12	Tucker, A.O. and Maciarelo, M.J. 1990. The Essential Oil of Trichostemma dichotomum. J. Ess. Oil Res. 2: 149-150.
Turnera diffusa	Leaf	50.0	100.0	-0.28	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Umbellularia californica	Plant	230.0	920.0	0.56	*
Valeriana officinalis	Root	50.0	960.0	0.41	*
Valeriana officinalis	Root Essent. Oil	--	48000.0	-0.54	*
Valeriana officinalis	Leaf	12.0	1100.0	1.19	Father Nature's Pharmacy: The aggregate of all these three-letter citations.
Valeriana officinalis	Leaf Essent. Oil	5400.0	43000.0	1.05	*
Vetiveria zizanioides	Root	--	15.0	-0.68	*
Vitex agnus-castus	Fruit Essent. Oil	--	8300.0	-0.68	Jim Duke's personal files.
Vitex agnus-castus	Leaf	--	2.5	-0.43	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
Vitex agnus-castus	Flower	--	--		Jim Duke's personal files.
Vitex agnus-castus	Fruit	600.0	4000.0	-0.17	*
Vitex agnus-castus	Leaf Essent. Oil	--	9800.0	-0.55	Jim Duke's personal files.
Zea mays	Silk Essent. Oil	--	3000.0		*
Zingiber officinale	Rhizome Essent. Oil	--	5300.0	1.25	*
Zingiber officinale	Rhizome	--	100.0	0.19	*