

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for CARYOPHYLLENE-OXIDE

Plant	Part	Low PPM	High PPM	StdDev	Reference
Daucus carota	Root	310.0	350.0		--
Daucus carota	Seed	310.0	350.0	0.22301376261714642	--
Nepeta cataria	Plant	285.0	2365.0	4.032095440217275	Bourrel, C., Perineau, F., Michel, G., Bessiere, J.M. 1993. Catnip (Nepeta cataria L.) Essential Oil: Analysis of Chemical Constituents, Bacteriostatic and Fungistatic Properties. J. Ess. Oil Res., 5: 159-167.
Apium graveolens	Seed	125.0	200.0	-1.3209276708861737	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
Ocimum tenuiflorum	Leaf	100.0	1260.0	5.030102690692117	--
Origanum vulgare	Plant	84.0	336.0	0.21706461981273312	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Artemisia annua	Shoot	75.0	2920.0	6.004003488123152	Wright, C.W. (Ed) 2002. Medicinal & Aromatic Plants-Industrial Profiles. Artemisia. 344pp. Maffei, M. (Ed) 2002. Vetiveria. The Genus Vetiveria. Taylor & Francis. NY, NY. 191pp. Southwell, I., Lowe, R. (Eds) 1999. Tea Tree. The Genus Melaleuca. Harwood Acad. Pub. Amsterdam, Netherlands.
Syzygium aromaticum	Leaf	75.0	712.0	2.643842620312473	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
Salvia officinalis	Plant	55.0	308.0	0.16441757054150238	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Artemisia annua	Leaf	30.0	700.0	2.5915887501581745	--
Cinnamomum verum	Leaf	25.0	50.0	-0.238829216533009	--
Rosmarinus tomentosus	Shoot	24.0	35.0	-0.32251446696865166	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Stevia rebaudiana	Leaf	20.0	190.0	0.3707992686004767	--
Aloysia citrodora	Plant	20.0	140.0	-0.15146472508588207	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Rosmarinus eriocalyx</i>	Shoot	16.0	35.0	-0.32251446696865166	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	16.0	35.0	-0.32251446696865166	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>Chrysanthemum x morifolium</i>	Plant	15.0	57.0	-0.30752562113988746	Wealth of India.
<i>Lavandula x hybrida</i>	Shoot	14.0	25.0	-0.3444434720122974	Tucker, A.O., Maciarelo, M.J., Angell, S., Espailat, J.R., and French, E.C. 1993. The Essential Oil of <i>Lavandula x hybrida</i> Balb. ex Ging., a Distinct Hybrid from <i>L. x heterophylla</i> Poir. (Labiatae). J. Ess. Oil Res. 5: 443-445.
<i>Rosmarinus x lavandulaceus</i>	Shoot	13.0	60.0	-0.26769195435953735	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 mendizabalii</i>	Shoot	13.0	44.0	-0.30277836242937045	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>	Shoot	12.0	75.0	-0.2347984467940687	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>Satureja montana</i>	Plant	10.0	285.0	0.12117178006870569	--
<i>Salvia dorisiana</i>	Shoot	6.9	7.3	-0.38325781093955036	Tucker, A.O. & Maciarelo, M.J. 1994. The Essential Oil of <i>Salvia dorisiana</i> Standley. J. Ess. Oil Res. 6: 97-8.
<i>Lavandula latifolia</i>	Plant	6.0	24.0	-0.3695739292095523	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Litsea glaucescens</i>	Shoot	4.0	27.0	-0.34005767100356826	Tucker, et al, EB46(1):21-24.1992
<i>Myrtus communis</i>	Plant	2.0	3.0	-0.4090592161629753	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum tenuifolium</i>	Shoot	2.0	320.0	0.30246217677525256	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Ageratum conyzoides</i>	Plant	1.0	8.0	-0.39965795736454124	--
<i>Citrus limon</i>	Leaf Essent. Oil	0.8	15600.0	1.322705019532784	Jim Duke's personal files.
<i>Melissa officinalis</i>	Plant	0.5	225.0	0.008356674487496966	J. Aromatherapy 1: 11.
<i>Rosmarinus officinalis</i>	Plant	0.1	75.0	-0.27368108946552483	--
<i>Rosmarinus officinalis</i>	Shoot	0.1	38.0	-0.3159357654555579	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>Pimenta racemosa</i>	Leaf	0.0	18.0	-0.3781728702778057	--
<i>Eucalyptus viridis</i>	Leaf	0.0	0.5	-0.4543764309194915	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>Symphomyrtus</i> , Section <i>Adnataria</i> . Flavour and Fragrance J. 10(6):359-364
<i>Mentha longifolia</i>	Shoot	0.0	835.0	1.4318059365230096	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Magnolia denudata</i>	Bark				--
<i>Magnolia denudata</i>	Bulb				--
<i>Magnolia denudata</i>	Flower				--
<i>Magnolia denudata</i>	Leaf				--
<i>Magnolia denudata</i>	Twig				--
<i>Dracocephalum thymiflora</i>	Plant		46.0	-0.3282083904964424	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Leonotis leonurus	Se		42.0		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
Eucalyptus dolichorhyncha	Leaf		35.0	-0.3041465542258825	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 Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7
Cuminum cyminum	Seed		435.0	1.097913908269028	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Vitex agnus-castus	Leaf		1.6	-0.44958649282201407	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.
Houttuynia cordata	Shoot				--
Cinnamomum verum	Plant				--
Syzygium aromaticum	Essential Oil				--
Micromeria thymifolia	Leaf		55.0	-0.21705677063538453	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.
Centella asiatica	Shoot				Jim Duke's personal files.
Psidium guajava	Essential Oil				--
Psidium guajava	Pericarp Essent. Oil				--
Tagetes lucida	Shoot		12.0	-0.37295117856903687	Bicchi, C., Fresia, M., Rubiolo, P., Monti, D., Franz, C., Goehler, I. 1997. Constituents of Tagetes lucida Cav. ssp. lucida essential oil. Flavor & Fragrance, 12(1): 47-52.
Lindera benzoin	Leaf		4.0	-0.4391357187911543	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Micromeria fruticosa	Shoot		500.0	0.6971842675608764	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</i> . Part VII. <i>J. Ess. Oil Res</i> 3: 477-479.
Micromeria fruticosa	Shoot		500.0	0.6971842675608764	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</i> . Part VII. <i>J. Ess. Oil Res</i> 3: 477-479.
Eucalyptus desquamata	Leaf		60.0	-0.19528432473776003	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>Symphomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
Eucalyptus leucoxydon	Leaf		7.0	-0.42607225125257964	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>Symphomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
Vitex agnus-castus	Leaf Essent. Oil		11700.0	0.6121610007755034	Jim Duke's personal files.
Vitex agnus-castus	Flower				Jim Duke's personal files.
Humulus lupulus	Essential Oil				--
Piper auritum	Leaf				Tramil
Vitex agnus-castus	Fruit				Jim Duke's personal files.
Cuminum cyminum	Fruit		435.0	-0.5007242267296801	--
Juniperus communis	Fruit		15.0	-0.895044555279303	--
Stevia rebaudiana	Flower		265.0		Kinghorn, A. D. (Ed.) 2002. <i>Medicinal and Aromatic Plants - Industrial Profiles</i> . Stevia. The genus <i>Stevia</i> . Taylor & Francis. New York, NY. 211 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus funkii	Shoot		135.0	-0.10322441653219411	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.
Thymus funkii	Shoot		135.0	-0.10322441653219411	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.
Eucalyptus sparsa	Leaf		25.0	-0.34769144602113145	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 Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Tanacetum parthenium	Fruit Essent. Oil		4000.0	-1.0	--
Isanthus brachiatus	Plant		1.0	-0.41281971968234893	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cinnamomum verum	Root Bark				--
Saussurea lappa	Root Essent. Oil				--
Teucrium arduini	Shoot		13.0	-0.3707582780646723	Blazevic, N., Kalodera, Z., Petricic, J., and Plazibat, M. 1992. Essential Oil Content and Composition of Teucrium arduini L. J. Ess. Oil Res. 4: 223-225.
Moldavica thymiflora	Plant		46.0	-0.3282083904964424	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Teucrium arduini	Shoot		13.0	-0.3707582780646723	Blazevic, N., Kalodera, Z., Petricic, J., and Plazibat, M. 1992. Essential Oil Content and Composition of Teucrium arduini L. J. Ess. Oil Res. 4: 223-225.
Psidium guajava	Leaf				Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Alpinia galanga	Leaf Essent. Oil		10400.0	0.3753129945230765	--
Alpinia galanga	Rhizome				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus angulosa	Leaf		4.0	-0.4391357187911543	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 Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7
Eucalyptus erythrandra	Leaf		7.0	-0.42607225125257964	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 Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7
Pycnanthemum loomisii	Shoot				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Ptychopetalum olacoides	Root Essent. Oil		29000.0		Uber Bucek, E., Fournier, G., Dadoun, H. 1987. Volatile Constituents of Ptychopetalum olacoides Root Oil. Planta Med. 53, 2: 231.
Eucalyptus ceratocorys	Leaf		10.0	-0.4130087837140049	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 Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7
Eucalyptus cuprea	Leaf		8.0	-0.4217177620730547	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 Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Lavandula angustifolia	Flower				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Juniperus communis	Fruit Essent. Oil				--
Syzygium aromaticum	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Eucalyptus behriana</i>	Leaf		2.7	-0.4447965547245367	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>Symphomyrtus</i> , Section <i>Adnataria</i> . Flavour and Fragrance J. 10(6):359-364
<i>Copaifera</i> spp	Gum				--
<i>Galeopsis tetrahit</i>	Shoot		128.0	-0.11857472006274614	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Rosmarinus officinalis</i>	Leaf		18.0	-0.3781728702778057	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaïd, 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>Ageratum conyzoides</i>	Shoot		300.0	0.25860416668796105	R. Vera, (1993); Chemical composition of the essential oil <i>Ageratum conyzoides</i> L. (Asteraceae) from Reunion, Flavour Fragr. J., Vol.8, 257-260.
<i>Rosmarinus officinalis</i>	Leaf		18.0	-0.3781728702778057	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaïd, 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>Callicarpa americana</i>	Leaf		10.0	-0.4130087837140049	--
<i>Eucalyptus lansdowneana</i>	Leaf		2.4	-0.4461029014783941	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>Symphomyrtus</i> , Section <i>Adnataria</i> . Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus globulus</i>	Leaf Essent. Oil		3000.0	-0.9728987333753536	--
<i>Rosmarinus officinalis</i>	Shoot		38.0	-0.3159357654555579	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.



Plant	Part	Low PPM	High PPM	StdDev	Reference
Agastache rugosa	Shoot				Jim Duke's personal files.
Pimenta dioica	Plant				--
Thymus cilicicus	Shoot		370.0	0.4121072019934814	Tumen, G., Koyuncu, M., Kirimer, N., and Baser, K.H.C. 1994. Composition of the Essential Oil of Thymus cilicicus Boiss. & Bal. J. Ess. Oil Res. 6: 97-8.
Teucrium kotschyianum	Leaf		27.0	-0.3389824676620817	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Salvia canariensis	Leaf		28.0	-0.33462797848255676	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
Eucalyptus forrestiana	Leaf		27.0	-0.3389824676620817	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 Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7
Piper nigrum	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
Piper nigrum	Fruit Essent. Oil		9000.0	1.0	--
Salvia officinalis	Essential Oil		13100.0		--
Salvia sclarea	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Ocimum basilicum	Essential Oil				--
Origanum onites	Shoot		100.0	-0.17997593418495428	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.
Thymus capitatus	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus capitatus	Shoot		0.0	-0.39926598462141183	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.
Scutellaria churchilliana	Plant		14.0	-0.38837644680642036	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Mentha aquatica	Shoot		1.0	-0.3970730841170472	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		6.0	-0.3861085815952244	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		3.0	-0.3926872831083181	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.
Alpinia galanga	Leaf		100.0	-0.021104757556764116	--
Mentha aquatica	Shoot		3.0	-0.3926872831083181	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		1.0	-0.3970730841170472	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus intertexta	Leaf		5.5	-0.432603985021867	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 Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Perilla frutescens	Shoot Essent. Oil		21000.0		Nguyen, X. D., La, D. M., Lu'u, D. C., Leclercq, P. A. 1995. Essential Oil Constituents from the Aerial Parts of Perilla frutescens (L.) Britton. J. Essent. Oil Res., 7(4): 429-432.
Eucalyptus stoatei	Leaf		80.0	-0.10819454114726207	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 Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7
Thymus riatarum	Shoot		205.0	0.050278618773326254	Iglesias, J., Vila, R., Canigueral, S., Bellakdhar, and Idrissi, A. 1991. Analysis of the Essential Oil of Thymus riatarum. J. Ess. Oil Res. 3: 43-4.
Mentha x piperita	Essential Oil				--
Teucrium micropodioides	Leaf		68.0	-0.16044841130156084	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.
Eucalyptus porosa	Leaf		13.0	-0.3999453161754302	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 Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus melanophloia	Leaf		1.0	-0.452199186329729	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 Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Artemisia annua	Plant				--
Hyptis suaveolens	Shoot		265.0	0.18185264903520085	Mallvarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of Hyptis suaveolens (L.) Poit. J. Ess. Oil Res. 5: 321.
Hyptis suaveolens	Shoot		265.0	0.18185264903520085	Mallvarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of Hyptis suaveolens (L.) Poit. J. Ess. Oil Res. 5: 321.
Acinos alpinus	Shoot		3.0	-0.3926872831083181	Velasco-Negueruela, A., Perez-Alonso, M.J., Jimenez, S.M. and Garcia, F.M. 1993. The Volatile Constituents of Acinos alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Acinos alpinus	Shoot		6.0	-0.3861085815952244	Velasco-Negueruela, A., Perez-Alonso, M.J., Jimenez, S.M. and Garcia, F.M. 1993. The Volatile Constituents of Acinos alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Satureja obovata	Leaf		60.0	-0.19528432473776003	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.
Teucrium cyprium	Leaf		275.0	0.740930848860093	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Satureja obovata	Leaf		175.0	0.3054819309076032	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
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		60.0	-0.19528432473776003	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.
Syzygium aromaticum	Fruit		2455.0	1.3957687820089826	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
Salvia gilliesii	Shoot		205.0	0.050278618773326254	Velasco-Negueruela, A. et al. 1993. The Essential Oil of Salvia gilliesii Benth. J. Ess. Oil Res. 5: 319-320.
Elsholtzia eriostachya	Shoot		0.8	-0.3975116642179201	Pant, A.K., Dev, V., Parihar, R., Mathela, C.S., Rauscher, J., Vostrowsky, O. and Bestmann, H.J. 1992. The Essential Oil from Elsholtzia eriostachya var. pusilla. J. Ess. Oil Res. 4: 547-549.
Trichostemma dichotomum	Shoot		2.0	-0.3948801836126827	Tucker, A.O. and Maciarelo, M.J. 1990. The Essential Oil of Trichostemma dichotomum. J. Ess. Oil Res. 2: 149-150.
Micromeria croatica	Leaf		265.0	0.6973859570648441	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.
Laurus nobilis	Plant				--
Eucalyptus largisparsa	Leaf		4.6	-0.4365230252834394	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 Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Boswellia sacra	Resin, Exudate, Sap		32900.0		Chiavari, G., Gtalletti, G. C., Piccaglia, R., Mohamud, M. A. 1991. Differentiation Between Resins Boswellia carterii and Boswellia frereana (Frankincense) of Somali Origin. J. Essent. Oil Res. 3 (3):185-186.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus incrassata	Leaf		34.0	-0.30850104340540735	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 Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7
Thymus mastichina	Plant		1.0	-0.41281971968234893	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Alpinia galanga	Seed				--
Eucalyptus ochrophloia	Leaf		10.0	-0.4130087837140049	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 Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus citriodora	Leaf Essent. Oil		1000.0	-1.3372802814560105	--
Scutellaria parvula	Plant		20.0	-0.37709493624829954	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Eucalyptus fasciculosa	Leaf		5.0	-0.4347812296116294	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 Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Lavandula x intermedia	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lycopus europeus	Plant		16.0	-0.3846159432870468	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Eucalyptus odorata	Leaf		105.0	6.676883408603721E-4	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 Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364

Plant	Part	Low PPM	High PPM	StdDev	Reference
Teucrium divaricatum	Leaf		80.0	-0.10819454114726207	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Lantana camara	Shoot		18.0	-0.3597937755428494	--
Eucalyptus tetraptera	Leaf		95.0	-0.042877203454388606	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 Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7
Eucalyptus populnea	Leaf		1.8	-0.448715594986109	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 Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Origanum syriacum	Shoot		45.0	-0.30058546192500585	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum syriacum	Shoot		45.0	-0.30058546192500585	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum syriacum	Shoot		55.0	-0.2786564568813601	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Pogostemon cablin	Plant				--
Coriandrum sativum	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Coriandrum sativum	Seed Essent. Oil		3610.0		--