

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for LIMONENE

Plant	Part	Low PPM	High PPM	StdDev	Reference
Abies balsamea	Plant	720.0	1550.0	0.4668059283834233	--
Abies alba	Resin, Exudate, Sap				--
Abies spectabilis	Leaf	115.0	305.0	-0.12692400865166548	--
Abies alba	Leaf	855.0	1197.0	0.8114606080481381	--
Achillea millefolium	Leaf	1.0	170.0	-0.268944101986277	--
Acinos suaveolens	Shoot		3700.0	1.5550426407712443	Jim Duke's personal files.
Acorus calamus	Rhizome	10.0	1400.0	1.2836558613056794	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		42000.0	-1.4135017793261806	Jim Duke's personal files.
Agastache urticifolia	Plant		2464.0	1.0285384316436323	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Agastache rugosa	Essential Oil				Jim Duke's personal files.
Agastache foeniculum	Plant	2.0	25.0	-0.47043922202338057	--
Agastache nepetoides	Plant		2.0	-0.48457472265246676	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Agathosma betulina	Leaf Essent. Oil				--
Ageratum conyzoides	Shoot		340.0	-0.1553622230979656	R. Vera, (1993); Chemical composition of the essential oil Ageratum conyzoides L. (Asteraceae) from Reunion, Flavour Fragr. J., Vol.8, 257-260.
Aloysia citrodora	Plant	42.0	1050.0	0.1595124364467663	--
Alpinia galanga	Leaf		50.0	-0.3951841849503761	--
Alpinia galanga	Leaf Essent. Oil		0.4	-0.6782227076561912	--
Alpinia officinarum	Rhizome				Wealth of India.
Alpinia galanga	Rhizome Essent. Oil		3500.0	-0.6357397413333852	--
Alpinia galanga	Rhizome	1.0	165.0	-0.8992219200540644	--
Amomum compactum	Seed				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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Anacardium occidentale	Fruit				--
Anethum graveolens	Plant				--
Anethum graveolens	Leaf Essent. Oil		214300.0	0.2690608628408047	--
Anethum graveolens	Root Essent. Oil				--
Anethum graveolens	Shoot Essent. Oil		119200.0	0.3094342045722538	--
Anethum graveolens	Leaf	125.0	3735.0	3.4814383627388343	--
Anethum graveolens	Seed Essent. Oil				--
Anethum graveolens	Essential Oil	467000.0	628800.0	2.882227993253224	--
Angelica archangelica	Root Essent. Oil		227000.0	1.5228275750660336	--
Angelica archangelica	Root	0.0	1320.0	1.7252265137628358	--
Aniba rosaeodora	Essential Oil				--
Annona squamosa	Plant				--
Apium graveolens	Leaf Essent. Oil		621000.0	2.0668254322619717	--
Apium graveolens	Root Essent. Oil		117000.0	0.2687678089626183	--
Apium graveolens	Seed Essent. Oil	350000.0	721600.0	2.1440076891973874	--
Apium graveolens	Seed	530.0	24000.0	0.9558696966291022	--
Apium graveolens	Fruit Essent. Oil	350000.0	706000.0	0.5704970731129614	--
Apium graveolens	Stem Essent. Oil		695000.0		--
Apium graveolens	Essential Oil				--
Apium graveolens	Et		695000.0	1.0	--
Armoracia rusticana	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Artemisia annua	Plant		1200.0	0.2517004840277634	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Artemisia dracunculus	Essential Oil				--
Artemisia dracunculus	Root Essent. Oil				--
Artemisia annua	Shoot	2.0	80.0	-0.28771498042117827	Wright, C. W. (Ed) 2002. Medicinal & Aromatic Plants-Industrial Profiles. Artemisia. 344pp. Maffei, M. (Ed) 2002. Vetiveria. The Genus Vetiveria. Taylor & Francis. NY, NY. 191 pp. Southwell, I., Lowe, R. (Eds) 1999. Tea Tree. The Genus Melaleuca. Harwood Acad. Pub. Amsterdam, Netherlands
Artemisia dracunculus	Shoot	25.0	270.0	-0.19099565776190747	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Asarum canadense	Rhizome				--
Asiasarum sieboldii	Root				--
Asimina triloba	Fruit	0.027	0.548	-0.7501252174987437	--
Aspalathus linearis	Leaf Essent. Oil				--
Avena sativa	Seed				--
Bidens pilosa	Leaf Essent. Oil		100000.0	-0.23618745357138943	Jim Duke's personal files.
Boswellia serrata	Essential Oil				--
Boswellia sacra	Resin Essent. Oil		1.7		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 Olibanum. Plant Med. 53 (4): 382-384.
Boswellia sacra	Essential Oil		128000.0	-3.1356999051470447E-4	--
Boswellia sacra	Resin, Exudate, Sap		78200.0		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.
Bursera delpechiana	Wood	75.0	360.0		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Calamintha nepeta	Shoot		585.0	-0.03064520177416904	Kirimer, N., Baser, K.H.C., Ozek, T. and Kurkcuoglu, M. 1992. Composition of the Essential Oil of Calamintha nepeta subsp. glandulosa. J. Ess. Oil Res. 4:189-190
Calamintha nepeta	Leaf		80.0	-0.36362416420935134	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		4.0	-0.44357621675328074	--
Camellia sinensis	Leaf				--
Canarium indicum	Essential Oil	54100.0	135250.0	0.04141651454126865	--
Capsicum annuum	Fruit				--
Capsicum frutescens	Fruit				--
Carthamus tinctorius	Leaf		0.01	-0.44777369951183704	--
Carthamus tinctorius	Bud		0.01		--
Carum carvi	Seed	3000.0	42000.0	2.245951109203175	--
Carum carvi	Plant		420.0	-0.22767736339342154	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Carum carvi	Seed Essent. Oil		381600.0	0.7234037553203063	--
Carum carvi	Fruit	7860.0	30180.0	3.5781164025182557	--
Carum carvi	Essential Oil	250000.0	500000.0	2.140871457019611	--
Centella asiatica	Shoot				Jim Duke's personal files.
Chamaemelum nobile	Plant				--
Chenopodium ambrosioides	Plant				--
Chrysanthemum parthenium	Shoot				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.
Chrysanthemum balsamita	Plant				--
Cinnamomum verum	Root Bark				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cinnamomum verum	Stem Bark				--
Cinnamomum aromaticum	Bark				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Cinnamomum camphora	Leaf	48.0	120.0	-0.3215441365546516	--
Cinnamomum verum	Bark Essent. Oil				--
Cinnamomum verum	Leaf Essent. Oil				--
Cinnamomum verum	Bark	46.0	184.0	-1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cistus ladaniferus	Leaf	17.0	1190.0	0.8040966032085657	--
Citrullus colocynthis	Petiole				--
Citrus aurantium	Plant	1000.0	8000.0	4.430891974366298	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Citrus mitis	Fruit Juice				--
Citrus reticulata	Fruit	6500.0	9400.0	0.5979144802317528	--
Citrus limon	Pericarp Essent. Oil	512000.0	774000.0		--
Citrus limon	Fruit Essent. Oil	512000.0	980000.0	1.267182025507371	Jim Duke's personal files.
Citrus reticulata	Essential Oil				--
Citrus sinensis	Fruit	8300.0	9700.0	0.6409395320453212	--
Citrus limon	Essential Oil	2796.0	8000.0	-0.6910184174131357	--
Citrus aurantium	Leaf	70.0	110.0	-0.3320641434683265	--
Citrus limon	Petiole		3090.0		--
Citrus sinensis	Fruit Juice	1.0	278.0		--
Citrus paradisi	Leaf		205.0	-0.23212407778841473	--
Citrus limon	Leaf Essent. Oil	284000.0	754000.0	2.654734671831716	--
Citrus aurantiifolia	Fruit	4700.0	7500.0	0.3254224854124864	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cleonia lusitanica	Leaf	165.0	325.0	-0.10588399482431562	Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442.
Cocos nucifera	Fruit				Jim Duke's personal files.
Collinsonia canadensis	Plant				--
Commiphora myrrha	Resin, Exudate, Sap				--
Coriandrum sativum	Seed Essent. Oil	15500.0	18950.0	-0.7918374700341749	--
Coriandrum sativum	Essential Oil				--
Coriandrum sativum	Fruit	34.0	1238.0	-0.5726537627760642	--
Coridothymus capitatus	Shoot		110.0	-0.27244350842234605	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				--
Cuminum cyminum	Fruit	60.0	696.0	-0.6503856897192445	--
Cuminum cyminum	Seed Essent. Oil		2500.0	-0.8605696309526396	--
Cuminum cyminum	Seed	60.0	696.0	-0.7143557055167975	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cunila origanoides	Shoot		140.0	-0.2571720364235138	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Curcuma longa	Tuber				--
Curcuma longa	Rhizome Essent. Oil		2300.0	-0.7761485185603905	--
Curcuma longa	Leaf		125.0	-0.31628413309781417	--
Curcuma longa	Rhizome		80.0	-1.049460471807569	--
Curcuma longa	Essential Oil		2300.0	-0.7238268976657102	--
Cymbopogon flexuosus	Plant				--
Cymbopogon citratus	Plant				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cymbopogon parkeri	Plant	20.0	634.0	-0.09615574884453233	Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Cymbopogon martinii	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cyperus rotundus	Essential Oil				--
Daucus carota	Shoot		26.0	-0.31520363001907625	--
Daucus carota	Seed	20.0	1500.0	-0.6567320690884889	--
Daucus carota	Root		150.0	-0.4481409382990946	--
Dictamnus albus	Shoot	13.0	17.0	-0.31978507161872594	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 hispanicus	Shoot				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		10.0	-0.4796580267814803	--
Echinacea spp	Fruit				Economic & Medicinal Plant Research, 5: 253.
Elettaria cardamomum	Fruit	595.0	9481.0	0.6095312442214162	--
Elettaria cardamomum	Seed Essent. Oil		84600.0	-0.5175355633899679	--
Elettaria cardamomum	Fruit Essent. Oil		25000.0	-1.1610447246264288	--
Elsholtzia blanda	Shoot		55.0	-0.3004412070868718	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 Elsholtzia blanda Benth. (Labiatae). J. Ess. Oils Res. 4: 121-124
Elsholtzia polystachya	Leaf		0.0	-0.44778421951875075	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 Elsholtzia polystachya from Two Different Locations in India. Planta Medica 58: 376-379.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Elsholtzia eriostachya	Shoot		0.1	-0.3283880008447348	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.
Elsholtzia nipponica	Plant				Hegnauer, R. 1962-1997. Chemotaxonomie der Pflanzen, Bde 1-11. Birkhauser Verlag Basel, Boston, Berlin.
Elsholtzia polystachya	Leaf		0.0	-0.44778421951875075	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 Elsholtzia polystachya from Two Different Locations in India. Planta Medica 58: 376-379.
Ephedra sinica	Shoot		23.0	-0.3167307772189595	--
Eruca sativa	Hs				--
Eucalyptus bridgesiana	Leaf		585.0	0.16763618493123245	Singh, A. K., Gupta, K. C., & Brophy, J. J. 1991. Volatile Constituents of the Essential Oil of Eucalyptus bridgesiana Growing in India. Journal of Essential Oil Res. 3: 449-450.
Eucalyptus maculata	Shoot		15.0	-0.3208031697519814	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus nova-anglica	Leaf	4.0	7.0	-0.4404202146791783	Brophy, J. L., Lassak, E. V., & Boland, D. J. 1992. The Leaf Essential Oils of Eucalyptus nova-anglica. Deane & Maiden. Journal of Essential Oil Res. 4: 29-32.
Eucalyptus citriodora	Leaf Essent. Oil		5000.0	-0.6561226246926355	--
Eucalyptus blakelyi	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus viridis	Leaf		22.0	-0.4246402043086659	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 melanophloia	Leaf		2.0	-0.4456802181360157	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 porosa	Leaf		295.0	-0.13744401556534042	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 stoatei	Leaf		535.0	0.11503615036285782	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 intertexta	Leaf		340.0	-0.09010398445380324	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 erythrandra	Leaf		390.0	-0.03750394988542861	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 saligna	Shoot		800.0	0.07880034755079528	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus largisparsa	Leaf		135.0	-0.30576412618413923	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 oviformis	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus dealbata	Shoot		1180.0	0.2722389928693369	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus albens	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus ceratocorys	Leaf		155.0	-0.28472411235678935	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

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus melliodora	Shoot		0.1	-0.328388008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus brassiana	Leaf		150.0	-0.2899841158136268	Singh, A. K., Gupta, K. C., & Brophy, J. J. 1991. Chemical Constituents of the Leaf Essential Oil of Eucalyptus brassiana S. T. Blake. Journal of Essential Oil Res. 3: 45-7.
Eucalyptus incrassata	Leaf		680.0	0.26757625061114426	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 globulus	Leaf Essent. Oil	31000.0	52000.0	-0.448365224243177	--
Eucalyptus citriodora	Essential Oil				--
Eucalyptus astringens	Shoot		0.1	-0.328388008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus leucoxydon	Leaf		35.0	-0.41096419532088846	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 desquamata	Leaf		40.0	-0.40570419186405104	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 tetraptera	Leaf		565.0	0.1465961711038826	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 lansdowneana	Leaf		25.0	-0.4214842022345634	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 globulus	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus sideroxylon	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus behriana	Leaf		2.7	-0.4449438176520584	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 dolichorhyncha	Leaf		225.0	-0.21108406396106488	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

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Eucalyptus punctata</i>	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus sparsa</i>	Leaf		245.0	-0.19004405013371503	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
<i>Eucalyptus occidentalis</i>	Shoot		1955.0	0.6667520195058362	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus cladocalyx</i>	Shoot		275.0	-0.18845041242876875	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus camaldulensis</i>	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus maideni</i>	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus botryoides</i>	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus grandis</i>	Leaf Essent. Oil		25000.0	-0.5677152202460574	--
<i>Eucalyptus bosistoana</i>	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus populnea	Leaf		1.8	-0.4458906182742893	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 fasciculosa	Leaf		75.0	-0.36888416766618876	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	20.0	1420.0	1.046056762223089	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Eucalyptus odorata	Leaf		40.0	-0.40570419186405104	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 tereticornis	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
Eucalyptus ochrophloia	Leaf		0.7	-0.4470478190347934	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 forrestiana	Leaf		380.0	-0.04802395679910353	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

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Eucalyptus siderophloia</i>	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus cuprea</i>	Leaf		290.0	-0.14270401902217786	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
<i>Eucalyptus polyanthemos</i>	Shoot		630.0	-0.007737993775920693	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus diversicolor</i>	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Eucalyptus angulosa</i>	Leaf		50.0	-0.3951841849503761	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
<i>Eucalyptus citriodora</i>	Shoot		4000.0	1.7077573607595666	--
<i>Eucalyptus moluccana</i>	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Euodia rutaecarpa</i>	Leaf				--
<i>Ferula gummosa</i>	Plant				--
<i>Ficus carica</i>	Leaf Essent. Oil				--
<i>Foeniculum vulgare</i>	Essential Oil	2000.0	324400.0	1.130140030291175	Jim Duke's personal files.
<i>Foeniculum vulgare</i>	Flower Essent. Oil		342000.0	0.6678980920638107	Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Foeniculum vulgare	Plant		1800.0	0.6204526743517518	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Foeniculum vulgare	Seed	200.0	9420.0	-0.08909624755589692	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Foeniculum vulgare	Seed Essent. Oil	25000.0	131000.0	-0.32366490888438976	Jim Duke's personal files.
Foeniculum vulgare	Leaf Essent. Oil		578000.0	1.8767495127018285	Jim Duke's personal files.
Foeniculum vulgare	Fruit	200.0	9420.0	0.600782817019324	--
Gentiana lutea	Essential Oil		346800.0	1.2590716018100643	Abstract (See species file)
Glechoma hederacea	Plant	1.0	6.0	-0.4821163747169735	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hedeoma hispida	Plant		36.0	-0.4636787652007741	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hedeoma drummondii	Plant	1.0	410.0	-0.23382323323215468	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hedeoma reverchonii	Plant		368.0	-0.25963588655483383	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hedeoma pulegioides	Plant	36.0	570.0	-0.13548931581242443	--
Hedeoma pulegioides	Pollen Or Spore		6000.0		--
Hedychium flavum	Shoot		140.0	-0.2571720364235138	--
Helianthus annuus	Flower				--
Hesperis matronalis	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 Hesperis matronalis Flowers. Phytochemistry, 38(4): 847-851.
Hibiscus sabdariffa	Calyx				--
Houttuynia cordata	Shoot Essent. Oil				--
Humulus lupulus	Essential Oil				--
Humulus lupulus	Fruit				--
Hypericum perforatum	Shoot				--
Hypericum perforatum	Fruit Essent. Oil				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hypericum perforatum	Plant	5.0	90.0	-0.43049106807161513	--
Hypericum perforatum	Leaf Essent. Oil				--
Hyptis suaveolens	Plant		390.0	-0.24611497290962095	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 74.
Hyssopus officinalis	Shoot		0.1	-0.3283880008447348	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	Leaf	7.0	480.0	0.05717611233764573	--
Hyssopus officinalis	Flower	5.0	54.0	-0.5756715791109762	Flavour and Fragrance Journal, 6: 69.
Hyssopus officinalis	Shoot				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.
Illicium verum	Fruit	100.0	5220.0	-0.001567908370633259	--
Isanthus brachiatus	Plant		20.0	-0.4735121569427471	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Juglans nigra	Essential Oil		15000.0	-0.6507273013134828	--
Juniperus communis	Fruit Essent. Oil				--
Juniperus virginiana	Leaf				--
Juniperus communis	Fruit	76.0	910.0	-0.6196944860922323	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Juniperus communis	Essential Oil		31000.0	-0.5586333216571333	--
Lantana camara	Shoot		18.0	-0.3192760225520982	--
Larrea tridentata	Essential Oil				--
Laurus nobilis	Leaf Essent. Oil				--
Laurus nobilis	Leaf	55.0	500.0	0.07821612616499558	--
Lavandula angustifolia	Flower				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lavandula x intermedia	Plant	50.0	140.0	-0.3997617188779494	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lavandula x hybrida	Shoot	110.0	200.0	-0.22662909242584933	Tucker, A.O., Maciarelo, M.J., Angell, S., Espailat, 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	55.0	297.0	-0.30327156240983916	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Leonotis leonurus	Se		28.0		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
Leonurus cardiaca	Plant		2.0	-0.48457472265246676	--
Lepechinia calycina	Plant		115.0	-0.4151263934747823	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Levisticum officinale	Root	8.0	80.0	-0.5781714696190392	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lindera benzoin	Leaf		0.4	-0.44736341924220374	--
Lindera benzoin	Fruit	80.0	115.0	-0.7337108733981885	--
Lindera benzoin	Twig	9.0	11.0		--
Lippia alba	Plant				Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Litsea glaucescens	Shoot	25.0	30.0	-0.3131674337525653	Tucker, et al, EB46(1):21-24.1992
Lycopus virginicus	Plant	10.0	26.0	-0.4698246350395072	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lycopus uniflorus	Plant	111.0	174.0	-0.3788657614262568	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Magnolia denudata	Leaf				--
Magnolia denudata	Bark				--
Magnolia fargesii	Flower				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Magnolia denudata	Flower				--
Magnolia denudata	Twig				--
Magnolia denudata	Bulb				--
Mangifera indica	Flower				--
Marrubium vulgare	Plant				--
Marrubium vulgare	Essential Oil				--
Medicago sativa	Essential Oil				--
Melaleuca leucadendra	Plant				--
Melaleuca alternifolia	Leaf	100.0	250.0	-0.18478404667687756	--
Melaleuca alternifolia	Essential Oil	9000.0	43000.0	-0.48956283691487124	--
Melaleuca cajuputi	Leaf		430.0	0.004576077769271099	--
Melaleuca alternifolia	Leaf Essent. Oil		9000.0	-0.63844114380332	--
Melaleuca alternifolia	Root Essent. Oil		18700.0	-0.8519056002007065	--
Melissa officinalis	Shoot		0.1	-0.3283880008447348	Deutsche Apot. Ztit. 129(4):155-163. W. Schulze et al. Die Melisse.
Mentha spicata	Plant	7.0	9075.0	5.091572982030111	--
Mentha longifolia	Shoot	7.0	3040.0	1.2190702567969351	--
Mentha aquatica	Shoot		75.0	-0.290260225754317	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 spicata	Shoot				--
Mentha sp	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Mentha pulegium	Leaf Essent. Oil		5000.0	-0.6561226246926355	--
Mentha x piperita	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha aquatica	Leaf	114.0	714.0	0.303344274117639	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Mentha pulegium	Plant	41.0	148.0	-0.39484502300696295	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha arvensis var. piperascens	Leaf	20.0	3520.0	3.2552582140948236	--
Mentha aquatica	Shoot		60.0	-0.29789596175373306	Umamoto, 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	Essential Oil	1000.0	110000.0	-0.10391929710390785	--
Mentha aquatica	Shoot		21.0	-0.31774887535221497	Umamoto, 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 x rotundifolia	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha x piperita	Leaf	2.0	320.0	-0.1111439982811531	--
Mentha pulegium	Plant	10.0	2200.0	0.8662874679010774	--
Mentha aquatica	Shoot		60.0	-0.29789596175373306	Umamoto, 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 spicata	Essential Oil	19000.0	363000.0	1.3523167562121183	--
Mentha pulegium	Shoot				--
Mentha x rotundifolia	Leaf	14.0	500.0	0.07821612616499558	--
Mentha aquatica	Shoot		60.0	-0.29789596175373306	Umamoto, 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
Micromeria fruticosa	Shoot		335.0	-0.1579074684311043	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. Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res 3: 477-479.
Micromeria juliana	Leaf		25.0	-0.4214842022345634	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393.
Micromeria fruticosa	Leaf		1.0	-0.44673221882738323	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393.
Micromeria thymifolia	Leaf		175.0	-0.2636840985294395	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393.
Micromeria croatica	Leaf		30.0	-0.41622419877772593	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393.
Micromeria varia	Shoot		80.0	-0.28771498042117827	--
Micromeria fruticosa	Shoot		335.0	-0.1579074684311043	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. Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res 3: 477-479.
Micromeria teneriffae	Leaf		560.0	0.14133616764704512	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393.
Micromeria congesta	Leaf	275.0	355.0	-0.07432397408329085	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393.
Micromeria myrtifolia	Shoot		0.9	-0.3279807615914325	Ozek, T., Kirimer, N., and Baser, K.H.C. 1992. Composition of the Essential Oil of <i>Micromeria myrtifolia</i> Boiss. et Hohen. J. Ess. Oil Res., 4: 79-80.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Micromeria varia	Shoot		80.0	-0.28771498042117827	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. & Fragr. J.</i> 10(3): 199-202.
Minthostachys mollis	Shoot	4.0	10.0	-0.32334841508512013	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.
Moldavica thymiflora	Plant		10.0	-0.4796580267814803	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda citriodora	Leaf		35.0	-0.41096419532088846	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.
Monarda media	Plant	236.0	1484.0	0.42624318744778456	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda didyma	Leaf	25.0	40.0	-0.40570419186405104	--
Monarda russeliana	Plant		104.0	-0.42188685029738876	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda citriodora	Flower		40.0	-0.6078377072564232	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.
Monarda lindheimeri	Plant		94.0	-0.42803272013612187	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda fistulosa	Plant	3.0	589.0	-0.12381216311883146	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda didyma	Flower		10.0	-0.6767651247109525	Flavour and Fragrance Journal, 6: 80.
Monarda citriodora	Plant	89.0	90.0	-0.43049106807161513	--
Monarda punctata	Plant	50.0	2874.0	1.280519095031691	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Monarda didyma	Plant	2.0	1300.0	0.3131591824150948	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda clinopodia	Plant		287.0	-0.30941743224857227	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Morinda citrifolia	Fruit		0.17	-0.7501794290640288	--
Murraya koenigii	Leaf		115.0	-0.32680414001148905	--
Myrica cerifera	Leaf				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Myristica fragrans	Seed Essent. Oil	31000.0	119000.0	-0.37380387125652204	--
Myristica fragrans	Leaf Essent. Oil				--
Myristica fragrans	Seed	720.0	5760.0	-0.35141280144595843	--
Myristica fragrans	Essential Oil	36000.0	44000.0	-0.4838069631863494	--
Myrrhis odorata	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
Myrrhis odorata	Essential Oil		2600.0	-0.7221001355471537	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	Leaf	40.0	585.0	0.16763618493123245	--
Myrtus communis	Plant	185.0	585.0	-0.1262705110543247	--
Nepeta cataria	Plant				--
Nepeta cataria	Leaf				--
Nepeta racemosa	Shoot		90.0	-0.28262448975490084	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		90.0	-0.28262448975490084	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ocimum basilicum	Essential Oil	3100.0	77600.0	-0.2904096059080155	--
Ocimum gratissimum	Plant	10.0	105.0	-0.4212722633135154	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Ocimum kilimandscharicum	Leaf	360.0	615.0	0.19919620567225724	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum kilimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.
Ocimum basilicum	Leaf Essent. Oil	1000.0	2900.0	-0.6654054021595263	--
Ocimum gratissimum	Leaf	185.0	335.0	-0.0953639879106407	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	570.0	980.0	1.5518880396521617	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum kilimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.
Ocimum basilicum	Plant		20.0	-0.4735121569427471	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
Ocimum basilicum	Shoot Essent. Oil		7100.0	-0.8611251092370704	--
Ocimum gratissimum	Shoot		42.0	-0.30705884495303243	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	158.0	220.0	-0.19427320252924737	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.
Ocimum tenuiflorum	Leaf		145.0	-0.2952441192704643	Brophy, J.J., Goldsack, R.J., and Clarkson, J.R. 1993. The Essential Oil of Ocimum tenuiflorum L. (Lamiaceae) Growing in Northern Australia, J. Ess. Oil Res. 5: 459-461.
Ocimum basilicum	Plant		20.0	-0.4735121569427471	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Origanum vulgare	Plant		70.0	-0.4427828077490814	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 syriacum	Shoot		90.0	-0.28262448975490084	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum majorana	Leaf Essent. Oil		24000.0	-0.5721355904683862	--
Origanum sipyleum	Shoot		120.0	-0.2673530177560686	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 sipyleum	Shoot		120.0	-0.2673530177560686	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		85.0	-0.28516973508803956	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 majorana	Plant	18.0	1710.0	0.5651398458031535	--
Origanum vulgare	Shoot Essent. Oil	1400.0	35900.0	-0.5603926539497507	--
Origanum vulgare	Plant	22.0	480.0	-0.1908021443610227	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Origanum vulgare	Plant		5.0	-0.48273096170084684	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		315.0	-0.1680884497636591	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Origanum syriacum	Shoot		55.0	-0.3004412070868718	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum sipyleum	Shoot		120.0	-0.2673530177560686	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 minutiflorum	Shoot	40.0	60.0	-0.29789596175373306	Baser, K.H.C., Tumen, G., Sezik, E. 1991. The Essential Oil of Origanum minutiflorum O. Schwarz and P.H. Davis. J. Ess. Oil Res. 3: 445-446.
Origanum onites	Shoot		85.0	-0.28516973508803956	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	Plant		17.0	-0.47535591789436704	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	Plant		2.0	-0.48457472265246676	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 majorana	Essential Oil		38000.0	-0.5183422055574805	--
Origanum syriacum	Shoot		90.0	-0.28262448975490084	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum sipyleum	Shoot		10.0	-0.32334841508512013	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	Plant		17.0	-0.47535591789436704	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Panax ginseng	Root				Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Panax ginseng	Root Essent. Oil				--
Pastinaca sativa	Root				--
Pelargonium graveolens	Essential Oil	1.0	3.0	-0.7370481396201248	--
Pelargonium citrosum	Shoot		10.0	-0.32334841508512013	Matsuda, B. M., et al. 1996. Essential Oil Analysis and Field Evaluation of the Citrosa Plant 'Pelargonium citrosum' as a Repellent Against Populations of Aedes Mosquitoes. J. Am. Mosq. Contr. Assoc. 12(1):69-74.
Perilla frutescens	Shoot Essent. Oil		284000.0	2.030292143160805	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.
Perilla frutescens	Plant				--
Perilla frutescens	Leaf Essent. Oil		128000.0	-0.11241708734618	Kang, R., Helms, R., Stout, M.J., Jaber, H., Chen, Z., and Nakatsu, T. 1992. Antimicrobial Activity of the Volatile Constituents of Perilla frutescens and Its Synergistic Effects with Polygodial. J. Agric. Food Chem., 40: 2328-2330.
Petroselinum crispum	Seed	6.0	1470.0	-0.6588822047761124	--
Petroselinum crispum	Fruit Essent. Oil	10000.0	60100.0	-1.071797856637218	--
Petroselinum crispum	Leaf		16.0	-0.4309522084568708	--
Petroselinum crispum	Seed Essent. Oil				--
Peumus boldus	Leaf	6.0	400.0	-0.026983942971753678	--
Phyllanthus niruri	Leaf				Tramil
Pilocarpus microphyllus	Leaf		50.0	-0.3951841849503761	--
Pilocarpus jaborandi	Leaf		2350.0	2.0244174051948574	--
Pimenta dioica	Leaf Essent. Oil				--
Pimenta racemosa	Leaf	140.0	6870.0	6.779460530175923	--
Pimenta dioica	Leaf		15.0	-0.43200420914823834	--
Pimenta dioica	Fruit		28.0	-0.7461881384241233	--
Pimpinella anisum	Seed Essent. Oil				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pimpinella anisum	Fruit	25.0	459.0	-0.6843754806519635	--
Pimpinella anisum	Essential Oil				--
Pimpinella anisum	Seed	25.0	459.0	-0.7313417774490227	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Pinus sylvestris	Flower				--
Pinus sylvestris	Essential Oil				--
Pinus sylvestris	Leaf Essent. Oil				--
Pinus sylvestris	Shoot				--
Pinus sylvestris	Resin, Exudate, Sap				--
Piper auritum	Leaf				Tramil
Piper nigrum	Seed Essent. Oil				--
Piper cubeba	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Piper nigrum	Fruit	1500.0	8000.0	0.397130905101767	--
Piper nigrum	Fruit Essent. Oil	130500.0	210600.0	-0.6891296619826244	--
Plectranthus incanus	Shoot		65.0	-0.29535071642059435	Shah, G.C., Bhandari, R. & Mathela, C.S. 1992. 1,2-Epoxy-p-Menthane Derivatives from some Labiatae Species. J. Ess. Oil Res. 4: 57-59.
Pogostemon cablin	Plant				--
Porophyllum ruderale	Plant	9.0	13.0	-0.4778142658298603	Loayza, I., de Groot, W., Lorenzo, D. et al. 1999. Composition of the essential oil of Porophyllum ruderale (Jacq.) Cass. from Bolivia. Flav. & Fragr. J. 14: 393-8.
Prunus armeniaca	Essential Oil				--
Psidium guajava	Pericarp Essent. Oil				--
Psidium guajava	Fruit		1000.0	-0.6067869705481619	--
Psidium guajava	Leaf Essent. Oil				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Psoralea corylifolia	Seed				=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
Ptychopetalum olacoides	Root Essent. Oil		11000.0	-0.9396897838279455	Uber Bucek, E., Fournier, G., Dadoun, H. 1987. Volatile Constituents of Ptychopetalum olacoides Root Oil. Planta Med. 53, 2: 231.
Pycnanthemum torreyi	Shoot		60.0	-0.29789596175373306	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum californicum	Shoot		144.0	-0.2551358401570028	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum pycnanthemoides	Shoot	234.0	5800.0	2.6240456806895005	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum muticum	Shoot	87.0	900.0	0.12970525421356938	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum incanum	Shoot	209.0	1216.0	0.29056475926793557	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum curvipes	Shoot		2323.0	0.8540820760248449	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum virginianum	Shoot	12.0	14674.0	7.141347097944075	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum tenuifolium	Shoot	2.0	8520.0	4.008659141916956	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum beadleii	Shoot		329.0	-0.16096176283087074	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum pilosum	Leaf	66.0	1225.0	0.8409166274064279	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum montanum	Shoot	287.0	416.0	-0.11667449403425727	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum clinopodioides	Shoot	1134.0	10780.0	5.159110032495651	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pycnanthemum verticillatum</i>	Shoot		336.0	-0.15739841936447654	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum setosum</i>	Shoot	40.0	1085.0	0.22387933153970146	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum albescens</i>	Shoot	1688.0	5697.0	2.5716136268268435	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum pilosum</i>	Flower	66.0	1225.0	2.1147952821974845	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum loomisii</i>	Shoot	330.0	2520.0	0.9543647421505098	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Ravensara aromatica</i>	Bark		440.0	1.0	--
<i>Ribes nigrum</i>	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ribes nigrum</i>	Leaf		7.0	-0.4404202146791783	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rosa damascena</i>	Essential Oil				--
<i>Rosmarinus officinalis</i>	Leaf		100.0	-0.34258415038200146	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. <i>Flavour and Fragrance J.</i> 9: 29-33.
<i>Rosmarinus officinalis</i>	Shoot		9.0	-0.3238574641517479	Tucker, A. O. and Maciarelo, M. J. 1998. The essential oils of some rosemary cultivars. <i>Flavor and Fragrance Journal</i> , 1: 137-142. 1986.
<i>Rosmarinus officinalis</i>	Resin, Exudate, Sap				--
<i>Rosmarinus x mendizabali</i>	Shoot	100.0	370.0	-0.14009075109913335	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. <i>J. Ess. Oil Res.</i> 5: 243-246.
<i>Rosmarinus officinalis</i>	Plant	0.0	1950.0	0.7126407219327489	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rosmarinus officinalis	Shoot	175.0	365.0	-0.14263599643227207	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.
Rosmarinus officinalis	Leaf Essent. Oil		23000.0	-0.5765559606907152	--
Rosmarinus x lavandulaceus	Shoot	110.0	405.0	-0.12227403376716242	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.
Rosmarinus eriocalyx	Shoot	145.0	330.0	-0.160452713764243	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.
Rosmarinus officinalis	Leaf		100.0	-0.34258415038200146	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of Rosmarinus officinalis L. from Egypt. Flavour and Fragrance J. 9: 29-33.
Rosmarinus officinalis	Shoot	185.0	530.0	-0.058642900438694794	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.
Rosmarinus officinalis	Shoot Essent. Oil		8200.0	-0.8496388001809575	--
Rosmarinus tomentosus	Shoot	160.0	295.0	-0.17826943109621393	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.
Rosmarinus officinalis	Essential Oil		46000.0	-0.4722952157293057	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rosmarinus eriocalyx	Shoot	145.0	330.0	-0.160452713764243	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.
Ruta graveolens	Plant				--
Salvia triloba	Plant	100.0	690.0	-0.06173887774762675	--
Salvia officinalis	Essential Oil	6600.0	85000.0	-0.2478161403169539	--
Salvia sclarea	Plant	0.4	12.0	-0.47842885281373365	Flavour and Fragrance Journal, 6: 154.
Salvia gilliesii	Shoot		180.0	-0.23681007375840415	Velasco-Negueruela, A. et al. 1993. The Essential Oil of Salvia gilliesii Benth. J. Ess. Oil Res. 5: 319-320.
Salvia officinalis	Leaf Essent. Oil	10000.0	36400.0	-0.517322999711508	--
Salvia officinalis	Plant	39.0	2380.0	0.9769131249982739	--
Salvia dorisiana	Shoot	64.0	72.0	-0.2917873729542002	Tucker, A.O. & Maciarelo, M.J. 1994. The Essential Oil of Salvia dorisiana Standley. J. Ess. Oil Res. 6: 97-8.
Salvia officinalis	Et		14000.0	-1.0	--
Sambucus nigra	Flower Essent. Oil				--
Santolina chamaecyparissus	Plant				--
Sassafras albidum	Leaf	16.0	32.0	-0.41412019739499095	--
Satureja glabella	Plant		50.0	-0.4550745474265477	--
Satureja thymbra	Shoot		0.0	-0.32843890575139756	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 odora	Shoot		175.0	-0.23935531909154287	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		115.0	-0.26989826308920734	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Satureja obovata	Shoot	1.0	255.0	-0.19863139376132358	Fitoterapia No.60: 277.
Satureja montana	Plant	4.0	85.0	-0.4335640029909817	--
Satureja douglasii	Plant	234.0	1508.0	0.4409932750607441	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Satureja subspicata	Plant		25.0	-0.47043922202338057	Stanic, G., Petricic, J., and Blazevic, N. 1991. Gas Chromatographic Investigations of Essential Oils of Satureja montana and Satureja subspicata from Yugoslavia. J. Ess. Oil Res., 3: 153-158.
Satureja grandiflora	Shoot		50.0	-0.3029864524200105	Carnat, A., Chossegros, A., and Lamaison, J. 1991. The Essential Oil of Satureja grandiflora (L.) Scheele from France. J. Ess. Oil Res., 3: 361-362
Satureja montana	Essential Oil		6200.0	-0.701378990124475	--
Satureja hortensis	Plant				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Satureja parvifolia	Shoot		255.0	-0.19863139376132358	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		125.0	-0.2648077724229299	Tumen, G. 1991. The Volatile Constituents of Satureja cuneifolia. J. Ess. Oil Res., 3: 365-366.
Scutellaria galericulata	Plant		13.0	-0.4778142658298603	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Scutellaria lateriflora	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.
Sideritis mugronensis	Flower	1.0	155.0	-0.3436159403473942	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of Sideritis mugronensis Flower and Leaf. J. Ess. Oil Res., 3: 395-397.
Sideritis pauli	Shoot		55.0	-0.3004412070868718	Burzaco, A., Velasco-Negueruela, A. and Perez-Alonso, M.J. 1992. Essential Oil Analysis of Sideritis pauli Pau. FFJ7: 47-8. 1992.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Sideritis germanicolpitana</i>	Plant	35.0	45.0	-0.4581474823459143	J. Essential Oil, 4: 533.
<i>Sideritis mugronensis</i>	Leaf		1.0	-0.44673221882738323	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of <i>Sideritis mugronensis</i> Flower and Leaf. J. Ess. Oil Res., 3: 395-397.
<i>Sideritis athoa</i>	Shoot		26.0	-0.31520363001907625	Ozek, T., Baser, K.H.C. and Tumen, G. 1993. The Essential Oil of <i>Sideritis athoa</i> Papanikolaou Et Kokkini. J. Ess. Oil Res. 5: 669-670.
<i>Stachys germanica</i>	Plant		18.0	-0.47474133091049375	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Stevia rebaudiana</i>	Plant		10.0	-0.4796580267814803	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
<i>Stevia rebaudiana</i>	Leaf		1.0	-0.44673221882738323	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
<i>Stevia rebaudiana</i>	Flower		30.0	-0.6308135130745997	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
<i>Tagetes minuta</i>	Flower Essent. Oil	166300.0	353200.0	0.7456036872623704	--
<i>Tagetes lucida</i>	Leaf		165.0	-0.27420410544311447	Tramil
<i>Tagetes filifolia</i>	Leaf Essent. Oil				Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of <i>Tagetes Minuta</i> L. and <i>T. filifolia</i> Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
<i>Tagetes minuta</i>	Leaf Essent. Oil		200000.0	0.20584956866150136	Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of <i>Tagetes Minuta</i> L. and <i>T. filifolia</i> Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
<i>Tagetes minuta</i>	Essential Oil				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Tagetes minuta	Fruit Essent. Oil	213100.0	353200.0	-0.32654836924013236	--
Tagetes minuta	Shoot Essent. Oil		83000.0	-0.06856978436527997	--
Tamarindus indica	Fruit				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Tanacetum parthenium	Shoot				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.
Tanacetum parthenium	Essential Oil		5000.0	-0.7082860385987012	--
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.
Teucrium oxylepis	Shoot		1.83	-0.3275073459594688	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 asiaticum	Shoot		0.62	-0.3281232953300884	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		0.28	-0.32829637201274176	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		7.0	-0.32487556228500336	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 scorodonia	Shoot		0.51	-0.3281792907274174	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Teucrium oxylepis</i>	Shoot		0.99	-0.3279349471754361	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9.
<i>Teucrium micropodioides</i>	Leaf		170.0	-0.268944101986277	Arnold, N., Bellomaria, B., Velentini G. and Razaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Teucrium divaricatum</i>	Leaf		125.0	-0.31628413309781417	Arnold, N., Bellomaria, B., Velentini G. and Razaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Teucrium polium</i>	Shoot		16.0	-0.3202941206853537	Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian <i>Teucrium</i> Species. <i>J. Ess. Oil Res.</i> 5: 397-402.
<i>Teucrium arduini</i>	Shoot		3.0	-0.32691175855151433	Blazevic, N., Kalodera, Z., Petricic, J., and Plazibat, M. 1992. Essential Oil Content and Composition of <i>Teucrium arduini</i> L. <i>J. Ess. Oil Res.</i> 4: 223-225.
<i>Teucrium salviastrum</i>	Shoot		0.98	-0.32794003766610236	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9.
<i>Teucrium kotschyianum</i>	Leaf		45.0	-0.4004441884072136	Arnold, N., Bellomaria, B., Velentini G. and Razaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Teucrium cyprum</i>	Leaf		39.0	-0.4067561925554185	Arnold, N., Bellomaria, B., Velentini G. and Razaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<i>Teucrium arduini</i>	Shoot		3.0	-0.32691175855151433	Blazevic, N., Kalodera, Z., Petricic, J., and Plazibat, M. 1992. Essential Oil Content and Composition of <i>Teucrium arduini</i> L. <i>J. Ess. Oil Res.</i> 4: 223-225.
<i>Thuja occidentalis</i>	Branches				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus longicaulis	Shoot		5.0	-0.32589366041825885	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. J. Ess. Oil Res. 5: 291-5.
Thymus serpyllum	Plant	3.0	57.0	-0.4507724385394345	--
Thymus cilicicus	Shoot		570.0	-0.038280937773585155	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.
Thymus capitatus	Shoot		4.0	-0.3264027094848866	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Fragr. J. 8: 331-7.
Thymus x citriodorus	Plant		0.0	-0.4858038966202134	Stahl-Biskup, E. and Holthuijzen, J. 1995. Essential oil and glycosidally bound volatiles of lemon-scented thyme, Thymus x citriodorus (Pers.) Schreb. Flav. & Fragr. J. 10: 225-229.
Thymus zygis	Shoot				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. JEO5: 153-8.
Thymus longicaulis	Shoot		5.0	-0.32589366041825885	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. J. Ess. Oil Res. 5: 291-5.
Thymus capitatus	Plant	10.0	30.0	-0.46736628710401396	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Thymus saturojoides	Shoot		10.0	-0.32334841508512013	Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjilali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of Thymus broussonetii, T. zygis and T. saturojoides. J. Ess. Oil Res. 5: 45-53.
Thymus orospedanus	Plant		140.0	-0.3997617188779494	J. Nat. Prod.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus broussonettii	Shoot		30.0	-0.3131674337525653	Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjlali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of Thymus broussonettii, T. zygis and T. saturejoides. J. Ess. Oil Res. 5: 45-53.
Thymus funkii	Shoot				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 zygis	Shoot		0.1	-0.3283880008447348	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. JEO5: 153-8.
Thymus longicaulis	Shoot		770.0	0.06352887555196304	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. J. Ess. Oil Res. 5: 291-5.
Thymus vulgaris	Plant	15.0	5200.0	2.7100484195210193	--
Thymus riatarum	Shoot		85.0	-0.28516973508803956	Iglesias, J., Vila, R., Canigueral, S., Bellakdhar, and I Idrissi, A. 1991. Analysis of the Essential Oil of Thymus riatarum. J. Ess. Oil Res. 3: 43-4.
Thymus mastichina	Plant	240.0	280.0	-0.3137195411356855	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Thymus vulgaris	Essential Oil		5300.0	-0.7065592764801447	--
Thymus funkii	Shoot		5.0	-0.32589366041825885	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 zygis	Shoot	0.1	190.0	-0.23171958309212673	De Cunha, A.P. and Salguiero, L.R. 1991. The Chemical Polymorphism of Thymus zygis ssp. sylvestris from Central Portugal. J. Ess. Oil Res. 3: 409-12.
Tilia sp.	Flower				--
Trachyspermum ammi	Fruit	75.0	2040.0	-0.45763345759445806	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Trichostemma dichotomum	Shoot		5.0	-0.32589366041825885	Tucker, A.O. and Maciarelo, M.J. 1990. The Essential Oil of Trichostemma dichotomum. J. Ess. Oil Res. 2: 149-150.
Trifolium pratense	Flower		27.0	-0.6377062548200526	Buchnauer, G., Jirovetz, L., Nikiforov, A. 1996. Comparative Investigation of Essential Clover Flower Oils from Austria Using Gas Chromatography-Flame Ionization Detection, Gas Chromatography-Mass Spectrometry, and Gas Chrom.-Olfactometry. J. Agr. Food Chem. 44: 1827-8
Umbellularia californica	Plant	40.0	160.0	-0.38746997920048315	--
Vaccinium corymbosum	Fruit				--
Vaccinium myrtillus	Fruit Juice				--
Valeriana officinalis	Root				--
Valeriana officinalis	Leaf Essent. Oil	2300.0	25500.0	-0.5655050351348929	--
Valeriana officinalis	Root Essent. Oil				--
Vanilla planifolia	Fruit				--
Vetiveria zizanioides	Root		15.0	-0.698914105844702	--
Vitex agnus-castus	Flower				Jim Duke's personal files.
Vitex agnus-castus	Leaf		6.0	-0.44147221537054576	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	Fruit	590.0	4000.0	-0.17653645241247798	--
Vitex agnus-castus	Leaf Essent. Oil		112100.0	-0.18270097388120965	Jim Duke's personal files.
Vitex agnus-castus	Fruit Essent. Oil		1036500.0	1.4108415138660721	Jim Duke's personal files.
Vitis vinifera	Plant				Stitt, Paul. Why George should eat broccoli.
Zanthoxylum alatum	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Zea mays	Husk Essent. Oil				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zea mays	Seed Essent. Oil				--
Zea mays	Leaf				--
Zea mays	Silk Essent. Oil		7000.0		--
Zea mays	Silk Stigma Style				--
Zingiber officinale	Rhizome Essent. Oil		21000.0	1.411888259893775	--
Zingiber officinale	Rhizome	17.0	1050.0	0.6650265305559545	--