

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for EO

Plant	Part	Low PPM	High PPM	StdDev	Reference
Copaifera spp	Gum	300000.0	900000.0	1.9046615437521506	--
Schinus terebinthifolius	Seed	250000.0	450000.0	5.138359449760251	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Ferula gummosa	Gum	50000.0	300000.0	-0.10024534440800792	--
Curcuma xanthorrhiza	Rhizome	30000.0	295000.0	3.672028105944175	--
Canarium indicum	Gum	100000.0	250000.0	-0.26732091842135447	--
Pinus elliottii	Resin, Exudate, Sap	200000.0	250000.0	1.2282400385323775	--
Pinus palustris	Resin, Exudate, Sap	200000.0	250000.0	1.2282400385323775	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Syzygium aromaticum	Fruit	150000.0	210000.0	3.261810506686991	--
Syzygium aromaticum	Flower	155000.0	210000.0	6.568033781616922	--
Piper cubeba	Fruit	50000.0	200000.0	3.067440392195637	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Psoralea corylifolia	Seed	500.0	200000.0	1.977881864909547	--
Liquidambar styraciflua	Resin, Exudate, Sap	150000.0	200000.0	0.6398615769599811	--
Apium graveolens	Fruit	42000.0	200000.0	3.067440392195637	--
Ferula assa-foetida	Gum	30000.0	170000.0	-0.5346418368427087	--
Commiphora myrrha	Resin, Exudate, Sap	15000.0	170000.0	0.28683450001654326	--
Boswellia serrata	Resin, Exudate, Sap		160000.0	0.16915880770206396	Sabinsa: A series of well documented proprietary PR booklets, e.g. Sabinsa Corps. 1998. Bronchial Asthma - Its etiology and control with traditional herbal extracts. Sabinsa Corporation. Piscataway, NJ. 49 pp.
Myristica fragrans	Seed	20000.0	160000.0	1.4722054513334344	--
Myristica fragrans	Aril	40000.0	150000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Pimpinella anisum	Seed	6100.0	140000.0	1.219367244545378	--
Bursera delpechiana	Wood	25000.0	120000.0	2.3201651832092245	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Piper cubeba	Fruit Essent. Oil		118500.0		--
Boswellia sacra	Latex Exudate	30000.0	100000.0		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Elettaria cardamomum	Fruit	25000.0	100000.0	1.1237392472820933	--
Illicium verum	Fruit	50000.0	100000.0	1.1237392472820933	--
Santalum album	Root		100000.0	4.055469440458872	--
Acorus calamus	Rhizome	10000.0	100000.0	0.7957851377946111	--
Atractylodes lancea	Rhizome	50000.0	90000.0	0.6482854984023259	--
Sassafras albidum	Root	10000.0	90000.0	3.5844432634410257	--
Carum carvi	Seed	20000.0	82000.0	0.4861364448600147	--
Aframomum melegueta	Seed	3000.0	80000.0	0.4608526241812091	--
Foeniculum vulgare	Fruit	10000.0	80000.0	0.7349990182993845	--
Curcuma longa	Plant	15500.0	80000.0	5.339729553841824	--
Anethum graveolens	Seed	12000.0	77000.0	0.4229268931630007	--
Anethum graveolens	Fruit	12000.0	77000.0	0.6766879839519779	--
Curcuma longa	Rhizome	3000.0	72000.0	0.38278614749621226	--
Petroselinum crispum	Seed	15000.0	70000.0	0.33443352078718097	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Carum carvi	Fruit	30000.0	70000.0	0.54062890380803	--
Saussurea lappa	Root	15000.0	70000.0	2.642390909405334	--
Cistus ladaniferus	Essential Oil	1000.0	70000.0	1.071539612521354	--
Opopanax chironium	Resin, Exudate, Sap	30000.0	65000.0	-0.9487602692854892	--
Elettaria cardamomum	Seed Essent. Oil		64500.0	1.0	--
Arnica montana	Rhizome	5000.0	63100.0	0.25151146843707856	--
Santalum album	Wood	15000.0	62500.0	0.5548524460748149	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Betula lenta	Bud	40000.0	60000.0	1.2825030565342015	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cedrus libani	Wood	35000.0	60000.0	0.4780997183733189	--
Foeniculum vulgare	Seed	2160.0	60000.0	0.2080144173931528	--
Pimpinella anisum	Plant	10000.0	60000.0	3.819765018088099	--
Trachyspermum ammi	Fruit	20000.0	60000.0	0.34625878931667564	--
Syzygium aromaticum	Stem	40000.0	60000.0	2.6026342788799575	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Guaiacum sp.	Wood	50000.0	60000.0	0.4780997183733189	--
Zingiber officinale	Resin, Exudate, Sap		60000.0	-1.007598115442729	--
Pogostemon cablin	Plant	15000.0	58000.0	3.6677685645127265	--
Pycnanthemum pilosum	Flower	39000.0	58000.0	1.5076236691819183	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum pilosum	Leaf	39000.0	58000.0	4.087049803217256	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum pycnanthemoides	Shoot	39000.0	58000.0	4.415425150659019	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Inula helenium	Plant	5700.0	54000.0	3.3637756573619817	--
Schinus molle	Fruit	33500.0	52000.0	0.1907626977235922	--
Eucalyptus sparsa	Leaf		50400.0	3.4185552559881835	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
Cuminum cyminum	Fruit	20000.0	50000.0	0.1518886748253213	--
Acacia farnesiana	Flower	5000.0	50000.0	1.241286294843234	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Pycnanthemum muticum	Shoot	29000.0	50000.0	3.6749477441306584	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pimenta dioica	Fruit	20000.0	50000.0	0.1518886748253213	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cuminum cyminum	Seed	20000.0	50000.0	0.08159531399912463	--
Santalum acuminatum	Wood		50000.0	0.1710888075673346	--
Juniperus sabina	Shoot	30000.0	50000.0	3.6749477441306584	--
Zingiber officinale	Or	800.0	50000.0		--
Ginkgo biloba	Wood		50000.0	0.1710888075673346	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Alpinia galanga	Rhizome	400.0	48000.0	0.028787012954727756	--
Umbellularia californica	Essential Oil		46900.0	0.26351246183876637	--
Origanum vulgare	Shoot		45000.0	3.2121493650504327	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.
Asarum canadense	Rhizome	35000.0	45000.0	-0.015462878862957838	--
Juniperus virginiana	Wood	15000.0	45000.0	0.01758335216434249	--
Synedrella nodiflora	Flower		43000.0	1.008241092296885	Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Pycnanthemum loomisii	Shoot	31000.0	42000.0	2.9344703376022974	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Piper betel	Leaf	2000.0	42000.0	2.6796928616823648	--
Inula helenium	Fruit	10000.0	40000.0	-0.042481439666032995	--
Stillingia sylvatica	Plant	30000.0	40000.0	2.2998004823343745	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Echinacea spp	Root	50.0	40000.0	1.2293123783517959	--
Cinnamomum verum	Bark	3500.0	40000.0	2.5284405308842266	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Juniperus communis</i>	Fruit	6200.0	40000.0	-0.042481439666032995	--
<i>Lavandula angustifolia</i>	Flower	3000.0	40000.0	0.9083645769198783	--
<i>Artemisia annua</i>	Leaf	1400.0	40000.0	2.5037732439905036	--
<i>Mentha x piperita</i>	Plant	1000.0	40000.0	2.2998004823343745	--
<i>Laurus nobilis</i>	Fruit	10000.0	40000.0	-0.042481439666032995	--
<i>Pimenta racemosa</i>	Leaf	7500.0	39000.0	2.415813435144573	--
<i>Mentha longifolia</i>	Plant	10000.0	38000.0	2.147804028759002	--
<i>Ferula jaeschkeana</i>	Fruit		38000.0	-0.08135546256430386	--
<i>Angelica archangelica</i>	Seed	2000.0	38000.0	-0.07010761007370915	--
<i>Arnica montana</i>	Root	17700.0	37400.0	1.1068455723271557	--
<i>Satureja thymbra</i>	Shoot		37000.0	2.4716719585220717	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.
<i>Pycnanthemum californicum</i>	Shoot		36000.0	2.3791122827060267	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Agathosma betulina</i>	Leaf	10000.0	35000.0	2.0639741997608496	--
<i>Barosma betulina</i>	Leaf	15000.0	35000.0	2.0639741997608496	--
<i>Eucalyptus globulus</i>	Leaf	5000.0	35000.0	2.0639741997608496	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Piper angustifolium</i>	Leaf	9000.0	35000.0	2.0639741997608496	--
<i>Thymus vulgaris</i>	Plant	4000.0	34000.0	1.843811121608257	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Origanum vulgare</i>	Plant		34000.0	1.843811121608257	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus forrestiana	Leaf		33200.0	1.9056465438381744	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
Origanum onites	Shoot		33000.0	2.1014332552578914	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.
Zanthoxylum clava-herculis	Plant		33000.0	1.7678128948205707	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Mentha arvensis var. piperascens	Plant	10000.0	32100.0	1.699414490711653	--
Nardostachys chinensis	Rhizome	10000.0	32000.0	-0.20721241007292873	--
Syzygium aromaticum	Leaf	20000.0	32000.0	1.8000947732230574	--
Origanum syriacum	Shoot		31000.0	1.916313903625801	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum syriacum	Shoot		31000.0	1.916313903625801	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum syriacum	Shoot		31000.0	1.916313903625801	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Persea americana	Leaf	5000.0	31000.0	1.7121349643771269	--
Pycnanthemum setosum	Shoot	20000.0	31000.0	1.916313903625801	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda fistulosa	Plant	3000.0	31000.0	1.6158164412451983	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus desquamata	Leaf		30900.0	1.7033389834925337	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
Brassica juncea	Seed	4500.0	30900.0	-0.15986517348346915	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Astragalus gummifer	Gum	20000.0	30000.0	-1.002453444080079	--
Pistacia lentiscus	Leaf	10000.0	30000.0	1.624175155531196	--
Hedeoma pulegioides	Plant	6000.0	30000.0	1.539818214457512	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Origanum majorana	Plant	3000.0	30000.0	1.539818214457512	--
Mentha x piperita	Leaf	2980.0	30000.0	1.624175155531196	--
Monarda punctata	Plant	10000.0	30000.0	1.539818214457512	--
Artemisia cina	Bud	20000.0	30000.0	-0.12512224941797112	--
Amomum xanthioides	Seed	15000.0	30000.0	-0.17124289278893168	--
Croton eluteria	Bark	15000.0	30000.0	1.655058654931126	--
Cymbopogon citratus	Plant	2000.0	30000.0	1.539818214457512	--
Valeriana jatamansi	Root	5000.0	30000.0	0.7582862013339499	--
Salvia triloba	Plant	10000.0	30000.0	1.539818214457512	--
Asiasarum sieboldii	Root	20000.0	30000.0	0.7582862013339499	--
Humulus lupulus	Seed	10000.0	30000.0	-0.17124289278893168	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Apium graveolens	Seed	4200.0	30000.0	-0.17124289278893168	--
Origanum creticum	Plant	14000.0	30000.0	1.539818214457512	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zingiber officinale	Root	700.0	30000.0	0.7582862013339499	--
Peumus boldus	Leaf	16000.0	30000.0	1.624175155531196	--
Micromeria fruticosa	Leaf		30000.0	1.624175155531196	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.
Schisandra chinensis	Fruit	10000.0	30000.0	-0.23685155415738732	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Pycnanthemum virginianum	Shoot	6000.0	29000.0	1.7311945519937106	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Eucalyptus incrassata	Leaf		28400.0	1.4834394613777069	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
Cunila origanoides	Shoot		28000.0	1.6386348761776655	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Ocimum kilimandscharicum	Flower	19600.0	28000.0	0.5088585154118517	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum kilimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.
Salvia officinalis	Plant	5000.0	28000.0	1.3878217608821395	--
Valeriana officinalis	Leaf	2300.0	28000.0	1.4482555378393345	--
Eucalyptus bridgesiana	Leaf		27000.0	1.360295728993404	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.
Coriandrum sativum	Fruit	2000.0	26000.0	-0.31459959995392905	--
Thymus vulgaris	Leaf	1344.0	26000.0	1.272335920147473	--
Melaleuca viridiflora	Leaf	10000.0	26000.0	1.272335920147473	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.



Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pycnanthemum nudum</i>	Shoot	25000.0	26000.0	1.4535155245455753	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Murraya koenigii</i>	Leaf	2300.0	26000.0	1.272335920147473	--
<i>Eucalyptus stoatei</i>	Leaf		26000.0	1.272335920147473	Bignell, C.M., Dunlop, P.J., Brophy, J. J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part I. Subgenus <i>Symphomyrtus</i> , Section <i>Dumaria</i> , Series <i>Incrassatae</i> . <i>Flavour and Fragrance J.</i> 9(3):113-7
<i>Cinnamomum aromaticum</i>	Bark	2000.0	25000.0	1.2183677169545755	--
<i>Citrus aurantium</i>	Fruit	7000.0	25000.0	-0.33403661140306445	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Oenanthe aquatica</i>	Fruit	10000.0	25000.0	-0.33403661140306445	--
<i>Melaleuca alternifolia</i>	Leaf	10000.0	25000.0	1.1843761113015423	--
<i>Ledum palustre</i>	Leaf	3000.0	25000.0	1.1843761113015423	--
<i>Cananga odorata</i>	Flower	5000.0	25000.0	0.40898200003484503	--
<i>Rosmarinus officinalis</i>	Plant	3300.0	25000.0	1.159827080519081	--
<i>Chenopodium ambrosioides</i>	Fruit	1830.0	25000.0	-0.33403661140306445	--
<i>Origanum onites</i>	Shoot		25000.0	1.3609558487295301	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. &amp; Frag. J.</i> 8: 331-7.
<i>Mentha spicata</i>	Leaf	1000.0	25000.0	1.1843761113015423	--
<i>Illicium verum</i>	Seed		25000.0	-0.23445244448594577	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Cedrus deodora</i>	Wood		25000.0	-0.5964384694476258	--
<i>Origanum minutiflorum</i>	Shoot	22400.0	24400.0	1.305420043239903	Baser, K.H.C., Tumen, G., Sezik, E. 1991. The Essential Oil of <i>Origanum minutiflorum</i> O. Schwarz and P.H. Davis. <i>J. Ess. Oil Res.</i> 3: 445-446.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Satureja obovata	Leaf		24100.0	1.1052122833402047	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.
Micromeria fruticosa	Shoot		24000.0	1.268396172913485	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of Micromeria fruticosa (L.) Druce subsp. barbata (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 fruticosa	Shoot		24000.0	1.268396172913485	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of Micromeria fruticosa (L.) Druce subsp. barbata (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res 3: 477-479.
Skimmia arborescens	Leaf	5000.0	24000.0	1.0964163024556115	--
Eucalyptus nova-anglica	Leaf	14000.0	24000.0	1.0964163024556115	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.
Amomum compactum	Seed		24000.0	-0.24709435482534858	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.
Echinacea pallida	Root	2000.0	23000.0	0.42856787742145763	--
Zanthoxylum alatum	Fruit	15000.0	23000.0	-0.37291063430133536	--
Satureja montana	Plant	1500.0	23000.0	1.0078306269437083	--
Satureja obovata	Leaf		22600.0	0.9732725700713085	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		22600.0	0.9732725700713085	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.
Pycnanthemum clinopodioides	Shoot	21000.0	22000.0	1.0832768212813946	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ravensara aromatica	Bark		22000.0	0.9563531541686453	--
Coridothymus capitatus	Shoot		22000.0	1.0832768212813946	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.
Eucalyptus porosa	Leaf		21200.0	0.8501288376870055	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		21200.0	1.0092290806285587	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.
Pycnanthemum verticillatum	Shoot		21000.0	0.9907171454653495	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum curvipes	Shoot		21000.0	0.9907171454653495	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Artemisia abrotanum	Plant	1800.0	21000.0	0.8558341733683359	--
Ocimum gratissimum	Shoot		21000.0	0.9907171454653495	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.
Schinus molle	Flower		21000.0	0.2758133128655028	--
Eucalyptus blakelyi	Shoot		20500.0	0.9444373075573269	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.
Juniperus macropoda	Fruit	6600.0	20400.0	-0.42344686406908744	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus tetraptera	Leaf		20400.0	0.7797609906102609	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
Aeolanthus myriantha	Flower		20200.0	0.24917957543163438	Wealth of India.
Mentha pulegium	Plant	10000.0	20000.0	0.7798359465806497	--
Leonotis nepetaefolia	Seed		20000.0	-0.29766199618295985	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ravensara aromatica	Leaf		20000.0	0.7445770670718886	--
Nardostachys jatamansi	Root	19000.0	20000.0	0.2872600243161038	--
Melaleuca linariifolia	Leaf	15000.0	20000.0	0.7445770670718886	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Cnidium officinale	Rhizome	10000.0	20000.0	-0.38421197734367113	--
Galipea officinalis	Bark	10000.0	20000.0	0.7816767789780251	--
Eucalyptus citriodora	Leaf	5000.0	20000.0	0.7445770670718886	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Valeriana officinalis	Root	590.0	20000.0	0.2872600243161038	--
Xylopiya aethiopica	Fruit		20000.0	-0.4312216686487416	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Hyssopus officinalis	Plant	300.0	20000.0	0.7798359465806497	--
Citrus sinensis	Pericarp	15000.0	20000.0	1.2809893558000476	--
Salvia officinalis	Leaf		20000.0	0.7445770670718886	--
Satureja hortensis	Plant	1500.0	20000.0	0.7798359465806497	--
Populus tacamahacca	Bulb		20000.0	1.1830115243755313	--
Serenoa repens	Fruit	5400.0	20000.0	-0.4312216686487416	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pycnanthemum tenuifolium</i>	Shoot	2000.0	20000.0	0.8981574696493044	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Matricaria recutita</i>	Flower	2400.0	20000.0	0.24252114107316727	--
<i>Iris x germanica</i>	Rhizome	1000.0	20000.0	-0.38421197734367113	--
<i>Mentha pulegium</i>	Shoot	3500.0	20000.0	0.8981574696493044	--
<i>Euodia rutaecarpa</i>	Fruit		20000.0	-0.4312216686487416	--
<i>Allium sativum</i> var. <i>sativum</i>	Bulb	600.0	19800.0	1.158132207353964	--
<i>Thymus serpyllum</i>	Plant	1500.0	19100.0	0.7114375424717321	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Pycnanthemum incanum</i>	Shoot	11000.0	19000.0	0.8055977938332592	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Angelica archangelica</i>	Root	1000.0	19000.0	0.24015740661431922	--
<i>Satureja cuneifolia</i>	Shoot		18900.0	0.7963418262516547	Tumen, G. 1991. The Volatile Constituents of <i>Satureja cuneifolia</i> . J. Ess. Oil Res., 3: 365-366.
<i>Prunus dulcis</i>	Seed	5000.0	18000.0	-0.3229458168617655	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Abies sachalinensis</i>	Branches	16000.0	18000.0	1.2958516296906437	--
<i>Levisticum officinale</i>	Root	1000.0	18000.0	0.19305478891253464	--
<i>Schizonepeta tenuifolia</i>	Plant		18000.0	0.6278394930052772	--
<i>Lavandula x intermedia</i>	Plant	10000.0	18000.0	0.6278394930052772	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pelargonium roseum</i>	Shoot		18000.0	0.7130381180172141	--
<i>Chamaemelum nobile</i>	Plant	6000.0	17500.0	0.5898403796114341	--
<i>Thymus orospedanus</i>	Plant		17500.0	0.5898403796114341	--
<i>Eucalyptus astringens</i>	Shoot		17300.0	0.6482463449459825	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
<i>Artemisia absinthium</i>	Leaf	2500.0	17000.0	0.4806976405340964	--
<i>Origanum sipyleum</i>	Shoot		17000.0	0.620478442201169	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. J. Ess. Oil Res. 4: 139-142.
<i>Origanum sipyleum</i>	Shoot		17000.0	0.620478442201169	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. J. Ess. Oil Res. 4: 139-142.
<i>Thymus longicaulis</i>	Shoot		17000.0	0.620478442201169	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. J. Ess. Oil Res. 5: 291-5.
<i>Eucalyptus melliodora</i>	Shoot		16800.0	0.60196650703796	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Origanum sipyleum</i>	Shoot		16800.0	0.60196650703796	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of <i>Origanum sipyleum</i> of Turkish Origin. J. Ess. Oil Res. 4: 139-142.
<i>Ocimum gratissimum</i>	Flower	13400.0	16700.0	0.13265697415845995	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of <i>Ocimum gratissimum</i> L. J. Ess. Oil Res. 4: 231-234.
<i>Capsicum frutescens</i>	Fruit		16000.0	-0.5089697144452834	--
<i>Prunus armeniaca</i>	Seed	8000.0	16000.0	-0.3482296375405711	--
<i>Nigella sativa</i>	Seed	4000.0	16000.0	-0.3482296375405711	--
<i>Achillea millefolium</i>	Leaf	250.0	16000.0	0.3927378316881657	--
<i>Eucalyptus punctata</i>	Shoot		15700.0	0.5001508636403103	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Cymbopogon parkeri</i>	Plant		15500.0	0.43784392603606154	Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Trachyspermum ammi</i>	Plant		15200.0	0.4150444579997557	--
<i>Vetiveria zizanioides</i>	Root		15000.0	0.05174693580718084	--
<i>Polianthes tuberosa</i>	Flower	800.0	15000.0	0.07606028211148952	--
<i>Anethum graveolens</i>	Leaf	1640.0	15000.0	0.30477802284223493	--
<i>Piper nigrum</i>	Fruit		15000.0	-0.5284067258944188	--
<i>Juniperus oxycedrus</i>	Fruit	13000.0	15000.0	-0.5284067258944188	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Juniperus oxycedrus</i>	Wood		15000.0	-0.90344938025361	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Jateorhiza palmata</i>	Root	700.0	15000.0	0.05174693580718084	--
<i>Hyptis suaveolens</i>	Plant		15000.0	0.39984481264221844	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 74.
<i>Anethum graveolens</i>	Plant	5600.0	15000.0	0.39984481264221844	--
<i>Eugenia brasiliensis</i>	Bark		15000.0	0.3449858410014748	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Eugenia brasiliensis</i>	Leaf		15000.0	0.30477802284223493	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Curcuma zedoaria</i>	Rhizome	10000.0	15000.0	-0.45796179703981377	--
<i>Coriandrum sativum</i>	Seed Essent. Oil	100.0	14900.0	-1.0	--
<i>Ocimum gratissimum</i>	Leaf	12000.0	14700.0	0.27839008018845574	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of <i>Ocimum gratissimum</i> L. J. Ess. Oil Res. 4: 231-234.
<i>Eucalyptus bosistoana</i>	Shoot		14700.0	0.4075911878242651	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
Thymus cilicicus	Shoot		14600.0	0.3983352202426606	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.
Eucalyptus maideni	Shoot		14300.0	0.3705673174978471	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 erythrandra	Leaf		14300.0	0.24320615665008344	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
Hyssopus officinalis	Shoot		14000.0	0.34279941475303355	Tsankova, E.T., Konatchiev, A.N. and Genova, E.M. 1993. Chemical Composition of the Essential Oils of Two Hyssopus officinalis cultivars. J. Ess. Oil Res. 5: 609-611.
Hyssopus officinalis	Shoot		14000.0	0.34279941475303355	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.
Abies balsamea	Leaf	6500.0	14000.0	0.21681821399630422	--
Peucedanum ostruthium	Root	2000.0	14000.0	0.004644318105396236	--
Achillea millefolium	Plant	177.0	14000.0	0.3238465858545322	--
Crocus sativus	Silk Stigma Style	3700.0	13700.0	1.0	--
Cymbopogon martinii	Flower	4500.0	13700.0	0.032780458781453296	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Echinacea angustifolia	Root	400.0	13000.0	-0.04245829959638836	--



Plant	Part	Low PPM	High PPM	StdDev	Reference
Nepeta cataria	Plant	2000.0	13000.0	0.24784835906684596	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.
Xylopia aethiopica	Seed		13000.0	-0.3861553685587796	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Satureja douglasii	Plant		13000.0	0.24784835906684596	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda didyma	Leaf	7000.0	13000.0	0.12885840515037347	--
Melaleuca leucadendra	Leaf		13000.0	0.12885840515037347	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Perilla frutescens	Plant	1000.0	13000.0	0.24784835906684596	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Melaleuca leucadendra	Twig		13000.0	1.6526478577346808	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Teucrium cyprum	Leaf		13000.0	0.12885840515037347	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.
Eucalyptus cuprea	Leaf		12700.0	0.10247046249659425	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
Rosmarinus officinalis	Shoot	6200.0	12600.0	0.21321586861057035	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus ericalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rosmarinus officinalis	Shoot	6200.0	12600.0	0.21321586861057035	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.
Eucalyptus dolichorhyncha	Leaf		12500.0	0.0848785007274081	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
Pimenta dioica	Leaf	7500.0	12500.0	0.0848785007274081	--
Agastache foeniculum	Plant	1000.0	12500.0	0.20984924567300284	--
Eucalyptus ceratocorys	Leaf		12300.0	0.06728653895822195	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
Vitex agnus-castus	Fruit	4000.0	12000.0	-0.5867177602418251	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.
Gaultheria fragrantissima	Shoot	1200.0	12000.0	0.15768006312094326	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Cinnamomum verum	Leaf	5000.0	12000.0	0.04089859630444273	--
Pycnanthemum flexuosum	Shoot		12000.0	0.15768006312094326	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Eucalyptus moluccana	Shoot		12000.0	0.15768006312094326	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
Thymus riatarum	Shoot		12000.0	0.15768006312094326	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.
Ferula jaeschkeana	Root		12000.0	-0.08956091729817296	--
Cymbopogon nardus	Plant	3000.0	12000.0	0.1718501322791597	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Brassica nigra	Seed	7000.0	12000.0	-0.39879727889818234	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Eucalyptus diversicolor	Shoot		12000.0	0.15768006312094326	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.
Anisochilus carnosus	Leaf		11900.0	0.032102615419849656	Wealth of India.
Umbellularia californica	Stem	5600.0	11300.0	0.08784963799398882	--
Ocimum kilimandscharicum	Leaf	7700.0	11200.0	-0.029469250772301864	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum kilimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.
Eucalyptus leucoxydon	Leaf		11000.0	-0.04706121254148801	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 latifolia	Plant	5000.0	11000.0	0.09585190549147347	--
Eucalyptus intertexta	Leaf		11000.0	-0.04706121254148801	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
Nepeta racemosa	Shoot		11000.0	0.06512038730489812	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		11000.0	0.06512038730489812	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.
Satureja obovata	Shoot	10000.0	11000.0	0.06512038730489812	Fitoterapia No.60: 277.
Levisticum officinale	Seed	8000.0	11000.0	-0.41143918923758516	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Citrus mitis	Leaf	9000.0	10600.0	-0.08224513607986031	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Satureja glabella	Plant	10000.0	10600.0	0.06545261477639898	--
Eucalyptus citriodora	Shoot		10500.0	0.018840549396875548	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 maculata	Shoot		10400.0	0.009584581815271035	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.
Perilla frutescens	Leaf		10400.0	-0.09983709784904646	Janicki, J., Tobolewicz, I. 1953. Perilla ocymoides-A Raw material for the Production of Natural Oils. Przem Rolny Spozyw, 7: 56-.
Micromeria teneriffae	Leaf		10000.0	-0.13502102138741875	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.
Alpinia officinarum	Rhizome	3000.0	10000.0	-0.5317116167359565	--
Monarda lindheimeri	Plant		10000.0	0.019853678703787233	--
Micromeria thymifolia	Leaf		10000.0	-0.13502102138741875	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.
Hedeoma reverchonii	Plant		10000.0	0.019853678703787233	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Camellia sinensis	Leaf	30.0	10000.0	-0.13502102138741875	--
Thuja occidentalis	Branches	6000.0	10000.0	-0.15743991762596632	--
Carum carvi	Plant		10000.0	0.019853678703787233	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Humulus lupulus	Flower	2000.0	10000.0	-0.09040057685018825	--
Coriandrum sativum	Leaf		10000.0	-0.13502102138741875	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Thymus zygis	Plant		10000.0	0.019853678703787233	--
Mentha x rotundifolia	Leaf	600.0	10000.0	-0.13502102138741875	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Prunus cerasus	Seed		10000.0	-0.424081099576988	--
Citrus sinensis	Fruit	7500.0	10000.0	-0.625591783140096	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Turnera diffusa	Leaf	2100.0	10000.0	-0.13502102138741875	--
Liquidambar orientalis	Resin, Exudate, Sap	5000.0	10000.0	-1.5959765770151253	--
Monarda russeliana	Plant		10000.0	0.019853678703787233	--
Melaleuca bracteata	Leaf	4000.0	10000.0	-0.13502102138741875	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Citrus paradisi	Fruit	6000.0	10000.0	-0.625591783140096	--
Schinus molle	Leaf	2000.0	10000.0	-0.13502102138741875	--
Monarda citriodora	Flower		10000.0	-0.09040057685018825	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 Monarda citriodora var. citriodora grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
Citrus reticulata	Fruit	7500.0	10000.0	-0.625591783140096	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Monarda clinopodia	Plant		10000.0	0.019853678703787233	--
Ocimum kilimandscharicum	Shoot	5000.0	10000.0	-0.027439288511147023	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum kilimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Monarda citriodora	Shoot		10000.0	-0.027439288511147023	--
Artemisia dracunculus	Shoot	1000.0	10000.0	-0.027439288511147023	--
Artemisia dracunculus	Plant	1000.0	10000.0	0.019853678703787233	--
Drimys winteri	Bark		10000.0	-0.09170509697507558	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Foeniculum vulgare	Plant		10000.0	0.019853678703787233	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Monarda didyma	Shoot	1000.0	10000.0	-0.027439288511147023	--
Melaleuca cajuputi	Leaf		10000.0	-0.13502102138741875	--
Magnolia officinalis	Bark	3000.0	10000.0	-0.09170509697507558	--
Ferula sumbul	Plant		10000.0	0.019853678703787233	--
Citrus aurantiifolia	Plant	3000.0	10000.0	0.019853678703787233	--
Citrus paradisi	Pericarp	3700.0	10000.0	-0.12155373449197493	--
Micromeria congesta	Leaf		10000.0	-0.13502102138741875	--
Origanum vulgare	Plant	1500.0	10000.0	0.019853678703787233	--
Cyperus rotundus	Root	5000.0	10000.0	-0.18376615270174232	--
Illicium verum	Leaf		10000.0	-0.13502102138741875	--
Humulus lupulus	Fruit	3000.0	10000.0	-0.625591783140096	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Hedychium flavum	Shoot		10000.0	-0.027439288511147023	--
Micromeria croatica	Leaf		10000.0	-0.13502102138741875	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hedeoma pulegioides	Shoot	6000.0	10000.0	-0.027439288511147023	--
Conium maculatum	Plant		10000.0	0.019853678703787233	--
Cinnamomum camphora	Leaf	5000.0	10000.0	-0.13502102138741875	--
Alpinia galanga	Leaf		10000.0	-0.13502102138741875	--
Thymus x citriodorus	Plant		10000.0	0.019853678703787233	--
Micromeria dalmatica	Leaf		10000.0	-0.13502102138741875	--
Zingiber officinale	Rhizome		10000.0	-0.5317116167359565	--
Hedeoma drummondii	Plant		10000.0	0.019853678703787233	--
Micromeria juliana	Leaf		10000.0	-0.13502102138741875	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.
Pycnanthemum torreyi	Shoot		10000.0	-0.027439288511147023	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Rosmarinus tomentosus	Shoot	8000.0	9900.0	-0.03669525609275154	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 x lavandulaceus	Shoot	3200.0	9900.0	-0.03669525609275154	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.
Satureja obovata	Leaf		9800.0	-0.1526129831566049	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.
Alliaria petiolata	Seed	5000.0	9600.0	-0.42913786371274915	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus largisparsa	Leaf		9200.0	-0.20538886846416335	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
Mentha pulegium	Leaf		9200.0	-0.20538886846416335	--
Anthriscus cerefolium	Seed		9000.0	-0.4367230099163908	--
Hypericum perforatum	Plant	500.0	9000.0	-0.05614454808389901	--
Ferula alliacea	Fruit		9000.0	-0.6450287945892313	--
Teucrium kotschyianum	Leaf		9000.0	-0.2229808302333495	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.
Ocimum tenuiflorum	Leaf	1000.0	9000.0	-0.2229808302333495	--
Eucalyptus odorata	Leaf		8800.0	-0.24057279200253565	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
Rosmarinus eriocalyx	Shoot	5500.0	8700.0	-0.1477668670720057	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	5500.0	8700.0	-0.1477668670720057	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.
Santolina chamaecyparissus	Flower		8600.0	-0.13700961735945802	--
Mentha aquatica	Leaf	3000.0	8500.0	-0.26696073465631487	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.



Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Calamintha nepeta</i>	Leaf		8000.0	-0.3109406390792802	Akgul, A., De Pooter, H.L., and De Buyck, L.F. 1991. The Essential Oils of <i>Calamintha nepeta</i> subsp. <i>glandulosa</i> and <i>Ziziphora clinopodioides</i> from Turkey. <i>J. Ess. Oil Res.</i> , 3: 7-10.
<i>Thymus funkii</i>	Shoot		8000.0	-0.2125586401432373	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. &amp; Fragr. J.</i> 10(6): 379-383.
<i>Thymus funkii</i>	Shoot		8000.0	-0.2125586401432373	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. &amp; Fragr. J.</i> 10(6): 379-383.
<i>Cannabis sativa</i>	Bud	1300.0	8000.0	-1.157380807116231	--
<i>Pycnanthemum montanum</i>	Shoot	7000.0	8000.0	-0.2125586401432373	Lawrence, B.M., <i>Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.</i>
<i>Thymus zygis</i>	Shoot		8000.0	-0.2125586401432373	Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. <i>Thymus zygis</i> Oil: Its Effects on CCl <sub>4</sub> -Induced Hepatotoxicity and Free Radical Scavenger Activity. <i>JEO5</i> : 153-8.
<i>Thymus zygis</i>	Shoot		8000.0	-0.2125586401432373	Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. <i>Thymus zygis</i> Oil: Its Effects on CCl <sub>4</sub> -Induced Hepatotoxicity and Free Radical Scavenger Activity. <i>JEO5</i> : 153-8.
<i>Melissa officinalis</i>	Shoot	100.0	8000.0	-0.2125586401432373	--
<i>Gaultheria procumbens</i>	Leaf	5500.0	8000.0	-0.3109406390792802	List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Thymus longicaulis</i>	Shoot		8000.0	-0.2125586401432373	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.
<i>Thymus longicaulis</i>	Shoot		8000.0	-0.2125586401432373	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eleutherococcus senticosus	Root		8000.0	-0.2779713881053115	--
Boronia megastigma	Flower	4000.0	8000.0	-0.15698492043485934	--
Satureja cilicica	Shoot		8000.0	-0.2125586401432373	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.
Daucus carota	Seed	4000.0	8000.0	-0.4493649202557936	--
Cinnamomum aromaticum	Leaf	3100.0	7700.0	-0.33732858173305946	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Vitex agnus-castus	Flower	3000.0	7600.0	-0.1703017891517936	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.
Arctium lappa	Root	600.0	7500.0	-0.3015226969562038	Wealth of India.
Ribes nigrum	Bulb		7500.0	-0.3719457894724333	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Limonia acidissima	Leaf		7300.0	-0.37251250527143176	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Eucalyptus camaldulensis	Shoot		7200.0	-0.2866063807960734	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.
Dictamnus albus	Shoot		7200.0	-0.2866063807960734	Baser, K.H.C., Kosar, M.Malyer, H. & Ozek, T. 1994. The Essential Oil Composition of Dictamnus albus from Turkey. Planta Med. 60:481-2
Dictamnus albus	Shoot		7200.0	-0.2866063807960734	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
Thymus capitatus	Shoot		7100.0	-0.29586234837767794	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.
Monarda media	Plant		7000.0	-0.2081410016592715	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Foeniculum vulgare	Root	5000.0	7000.0	-0.3250740058070961	--
Cymbopogon winterianus	Plant	4000.0	7000.0	-0.2081410016592715	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Angelica sinensis	Root	880.0	7000.0	-0.3250740058070961	--
Monarda citriodora	Leaf		7000.0	-0.39890044792521095	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 Monarda citriodora var. citriodora grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
Salvia canariensis	Leaf		7000.0	-0.39890044792521095	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, Barcelona Spain
Ocimum sanctum	Leaf	6000.0	7000.0	-0.39890044792521095	--
Lavandula x hybrida	Shoot	5500.0	7000.0	-0.30511831595928246	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.
Aloysia citrodora	Plant	700.0	7000.0	-0.2081410016592715	--
Pycnanthemum beadlei	Shoot		7000.0	-0.30511831595928246	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Ruta graveolens	Leaf	600.0	7000.0	-0.39890044792521095	--
Eucalyptus oviformis	Shoot		6900.0	-0.314374283540887	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.
Laurus nobilis	Bark		6800.0	-0.37118729728006783	--
Eucalyptus brassiana	Leaf		6800.0	-0.4164924096943971	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Eucalyptus dealbata</i>	Shoot		6700.0	-0.33288621870409596	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 occidentalis</i>	Shoot		6600.0	-0.3421421862857005	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>Agastache urticifolia</i>	Plant		6500.0	-0.24614011505311462	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Ocimum canum</i>	Shoot	3800.0	6500.0	-0.351398153867305	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Acinos suaveolens</i>	Shoot		6400.0	-0.3606541214489095	Tumen, G. 1991. The Volatile Constituents of <i>Acinos suaveolens</i> (Sibt. et Smith). G. Don fil. Growing in Turkey. J. Ess. Oil Res. 3:191-2.
<i>Myristica fragrans</i>	Leaf	4100.0	6200.0	-0.46926829500195555	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pinus mugo</i>	Leaf	1200.0	6100.0	-0.47806427588654865	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Betula lenta</i>	Bark	2300.0	6000.0	-0.44105784735631587	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Eupatorium triplinerve</i>	Plant		6000.0	-0.2841392284469577	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Vanilla planifolia</i>	Fruit		6000.0	-0.7033398289366377	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Echinacea</i> spp	Flower	600.0	6000.0	-0.22356926401953045	Economic & Medicinal Plant Research, 5: 253.
<i>Echinacea</i> spp	Leaf	100.0	6000.0	-0.4868602567711417	Economic & Medicinal Plant Research, 5: 253.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Tagetes lucida	Shoot		6000.0	-0.3976779917753276	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.
Conyza canadensis	Plant	2600.0	6000.0	-0.2841392284469577	--
Achillea moschata	Plant	3000.0	6000.0	-0.2841392284469577	--
Ocimum gratissimum	Plant	1000.0	6000.0	-0.2841392284469577	--
Citrus limon	Pt	2000.0	6000.0	1.0	--
Abelmoschus moschatus	Seed	2000.0	6000.0	-0.47464874093459924	--
Calamintha nepeta	Plant		6000.0	-0.2841392284469577	J. Ethnopharmacology, 39: 167.
Centella asiatica	Leaf	321.0	6000.0	-0.4868602567711417	--
Centella asiatica	Plant	3000.0	6000.0	-0.2841392284469577	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Aegle marmelos	Leaf		6000.0	-0.4868602567711417	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Plectranthus coleoides	Shoot		6000.0	-0.3976779917753276	Buchbauer, G., Jorovetz, L., Wasicky, M. and Nikiforov, A. 1993. Volatile Constituents of the Headspace and Essential Oil of Plectranthus coleoides Marginatus (Labiatae). J. Ess. Oil Res. 5: 311-313.
Myrtus communis	Plant	1667.0	5900.0	-0.29173905112572635	--
Artemisia pallens	Plant	1300.0	5800.0	-0.299338873804495	--
Piper auritum	Leaf	4700.0	5800.0	-0.5044522185403278	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Laurus nobilis	Leaf		5700.0	-0.513248199424921	--
Podophyllum hexandrum	Rhizome	2590.0	5550.0	-0.5973489562655234	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Dictamnus albus	Shoot		5500.0	-0.4439578296833501	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

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rosmarinus x mendizabalii	Shoot	3900.0	5500.0	-0.4439578296833501	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.
Eucalyptus sideroxylon	Shoot		5500.0	-0.4439578296833501	Zrira, S. S., Benjlali, 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		5400.0	-0.5396361420787001	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
Rosmarinus officinalis	Shoot		5400.0	-0.45321379726495464	Tucker, A. O. and Maciarello, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986.
Citrus aurantium	Flower	1000.0	5000.0	-0.256861435811866	--
Petroselinum crispum	Root	500.0	5000.0	-0.41927924121066534	--
Tagetes minuta	Plant	1870.0	5000.0	-0.36013745523464397	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Pilocarpus jaborandi	Leaf		5000.0	-0.5748200656170724	--
Myrtus communis	Leaf	1000.0	5000.0	-0.5748200656170724	--
Capsicum annum	Fruit	1290.0	5000.0	-0.7227768403857732	--
Pavonia odorata	Root		5000.0	-0.41927924121066534	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Satureja odora	Shoot		5000.0	-0.4902376675913727	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.
Pinus walliciana	Leaf		5000.0	-0.5748200656170724	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Satureja parvifolia	Shoot		5000.0	-0.4902376675913727	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.
Taraxacum officinale	Root	715.0	5000.0	-0.41927924121066534	--
Pinus sylvestris	Leaf	2000.0	5000.0	-0.5748200656170724	--
Lepechinia calycina	Plant		5000.0	-0.36013745523464397	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Prunella vulgaris	Plant		5000.0	-0.36013745523464397	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Salvia sclarea	Plant	400.0	5000.0	-0.36013745523464397	--
Hamamelis virginiana	Leaf		5000.0	-0.5748200656170724	--
Cymbopogon flexuosus	Leaf	2500.0	5000.0	-0.5748200656170724	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Populus nigra	Bulb		5000.0	-0.6829372522420262	--
Cymbopogon martinii	Plant	1000.0	5000.0	-0.36013745523464397	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Salvia gilliesii	Shoot		5000.0	-0.4902376675913727	Velasco-Negueruela, A. et al. 1993. The Essential Oil of Salvia gilliesii Benth. J. Ess. Oil Res. 5: 319-320.
Abies spectabilis	Leaf		5000.0	-0.5748200656170724	--
Artemisia salsoloides	Shoot		5000.0	-0.4902376675913727	V. Kaul, P. Weyerstahl, H. Wahlberg, H. Marschall, (1992); Volatile constituents of the essential oil and the absolute of Artemisia salsoloides Willd. from Ladakh, Flavour and Fragrance journal, Vol.7, 299-305.
Eleutherococcus senticosus	Fruit		5000.0	-0.7227768403857732	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Tanacetum vulgare	Plant	4000.0	5000.0	-0.36013745523464397	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Valeriana officinalis</i>	Root Essent. Oil		5000.0		--
<i>Gelsemium sempervirens</i>	Root		5000.0	-0.41927924121066534	--
<i>Achillea millefolium</i>	Flower	700.0	5000.0	-0.256861435811866	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Houttuynia cordata</i>	Plant		5000.0	-0.36013745523464397	--
<i>Echinacea purpurea</i>	Flower	1300.0	4800.0	-0.2635198701703331	Jim Duke's personal files.
<i>Eucalyptus lansdowneana</i>	Leaf		4800.0	-0.5924120273862586	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . Flavour and Fragrance J. 10(6):359-364
<i>Origanum vulgare</i>	Shoot		4800.0	-0.5087496027545817	Isaev, V. 1932. Essential Oils of the Flora of Tadshikistan. Acta Hortii Bot Tadshikistan 1932: 17-.
<i>Tagetes filifolia</i>	Shoot		4700.0	-0.5180055703361862	--
<i>Picea mariana</i>	Twig		4610.0	-0.15454869181161726	--
<i>Tsuga canadensis</i>	Branches	4000.0	4600.0	-1.1384117120646782	--
<i>Calamintha nepeta</i>	Shoot		4500.0	-0.5365175054993953	Kirimer, N., Baser, K.H.C., Ozek, T. and Kurkcuoglu, M. 1992. Composition of the Essential Oil of <i>Calamintha nepeta</i> subsp. <i>glandulosa</i> . J. Ess. Oil Res. 4:189-190
<i>Nigella sativa</i>	Seed Oil		4500.0		--
<i>Porophyllum ruderale</i>	Plant	3000.0	4500.0	-0.3981365686284871	Loayza, I., de Groot, W., Lorenzo, D. et al. 1999. Composition of the essential oil of <i>Porophyllum ruderale</i> (Jacq.) Cass. from Bolivia. Flav. & Fragr. J. 14: 393-8.
<i>Narcissus tazetta</i>	Flower	2100.0	4500.0	-0.2735075217080338	--
<i>Eucalyptus tereticornis</i>	Shoot		4500.0	-0.5365175054993953	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.



Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Sideritis mugronensis</i>	Flower	3200.0	4400.0	-0.27683673888726734	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 scardica</i>	Shoot		4350.0	-0.5504014568718021	Menkovic, N., et al. 1991. The Essential Oil of <i>Sideritis scardica</i> . Pl. Med. 57. Suppl. 2. pp. A137-A132.
<i>Stevia rebaudiana</i>	Flower		4300.0	-0.2801659560665009	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>	Leaf	250.0	4300.0	-0.6363919318092239	--
<i>Lindera benzoin</i>	Fruit	4140.0	4260.0	-0.7371602288581334	--
<i>Curcuma longa</i>	Leaf		4100.0	-0.6539838935784101	--
<i>Myrica cerifera</i>	Bark	436.0	4000.0	-0.6157342225469362	--
<i>Ephedra sinica</i>	Plant	1000.0	4000.0	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Pelargonium graveolens</i>	Plant	800.0	4000.0	-0.4361356820223302	--
<i>Paeonia officinalis</i>	Root		4000.0	-0.46638185891244993	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Hyptis emoryi</i>	Plant		4000.0	-0.4361356820223302	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Cimicifuga racemosa</i>	Plant	1000.0	4000.0	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Lepechinia schiediana</i>	Plant		4000.0	-0.4361356820223302	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Myrica cerifera</i>	Plant	2000.0	4000.0	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Teucrium micropodioides</i>	Leaf		4000.0	-0.6627798744630032	Arnold, N., Bellomaria, B., Velentini G. and Rifaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. J. Ethnopharm. 35: 105-113.
<i>Cimicifuga racemosa</i>	Root	210.0	4000.0	-0.46638185891244993	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ocimum suave	Shoot		4000.0	-0.5827973434074178	J. Nat. Prod. 44: 308.
Paeonia suffruticosa	Root Bark	1500.0	4000.0		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Actaea racemosa	Plant	1000.0	4000.0	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Satureja hortensis	Leaf		4000.0	-0.6627798744630032	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Bixa orellana	Leaf		4000.0	-0.6627798744630032	Wealth of India.
Elsholtzia cristata	Shoot		4000.0	-0.5827973434074178	Kobold, U., Vostrowsky, O., Bestmann, H.J., Bisht, J.C., Pant, A.K., Melkani, A.B. and Mathela, C.S. 1987. Terpenoids from Elsholtzia Species; II. Constituents of Essential Oil from a New Chemotype of Elsholtzia cristata. Planta Medica 1987: 268-271.
Calendula officinalis	Flower	200.0	4000.0	-0.29015360760420156	--
Pinus palustris	Leaf		4000.0	-0.6627798744630032	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Synedrella nodiflora	Leaf		4000.0	-0.6627798744630032	Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Daucus carota	Root		4000.0	-0.46638185891244993	--
Daucus carota	Shoot		4000.0	-0.5827973434074178	--
Allium sativum var. sativum	Root	370.0	4000.0	-0.46638185891244993	--
Satureja grandiflora	Shoot		3900.0	-0.5920533109890224	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
Eucalyptus saligna	Shoot		3900.0	-0.5920533109890224	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.
Jasminum officinale	Flower	2400.0	3800.0	-0.2968120419626687	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Monarda didyma	Flower		3700.0	-0.3001412591419022	Flavour and Fragrance Journal, 6: 80.
Psidium guajava	Leaf	2600.0	3600.0	-0.6979637980013755	--
Syringa vulgaris	Flower	2400.0	3600.0	-0.3034704763211358	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Eucalyptus populnea	Leaf		3600.0	-0.6979637980013755	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
Plectranthus incanus	Shoot		3500.0	-0.6290771813154404	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.
Abies alba	Leaf	2500.0	3500.0	-0.7067597788859685	--
Hypericum perforatum	Seed		3300.0	-0.5087818988509869	Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
Viburnum prunifolium	Bark	2800.0	3300.0	-0.6768709538636533	--
Sideritis germanicolpitana	Plant		3300.0	-0.4893344407737106	J. Essential Oil, 4: 533.
Lantana camara	Leaf	500.0	3200.0	-0.7331477215397478	--
Sambucus nigra	Flower	37.0	3200.0	-0.31678734503807	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Sideritis pauli	Shoot		3200.0	-0.656845084060254	Burzaco, A., Velasco-Negueruela, A. and Perez-Alonso, M.J. 1992. Essential Oil Analysis of Sideritis pauli Pau. FFJ7: 47-8. 1992.
Echinacea purpurea	Shoot	900.0	3200.0	-0.656845084060254	Jim Duke's personal files.
Eucalyptus botryoides	Shoot		3200.0	-0.656845084060254	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
Agastache pallidiflora	Flower	1550.0	3160.0	-0.31811903190976343	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus aurantiifolia	Pt		3100.0	-1.0	--
Eleutherococcus senticosus	Leaf		3100.0	-0.7419437024243408	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Armoracia rusticana	Plant	200.0	3050.0	-0.5083339974706322	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Petroselinum crispum	Plant	40.0	3000.0	-0.5121339088100166	--
Citrus aurantium	Leaf		3000.0	-0.7507396833089339	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Pilocarpus microphyllus	Leaf	2500.0	3000.0	-0.7507396833089339	--
Cnicus benedictus	Plant		3000.0	-0.5121339088100166	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Viburnum opulus	Bark	1000.0	3000.0	-0.7030724101422462	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Grindelia squarrosa	Plant		3000.0	-0.5121339088100166	--
Petroselinum crispum	Leaf	600.0	3000.0	-0.7507396833089339	--
Rosa canina	Seed	2000.0	3000.0	-0.5125744719528077	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Chenopodium ambrosioides	Leaf	2000.0	3000.0	-0.7507396833089339	--
Ilex paraguariensis	Leaf		3000.0	-0.7507396833089339	--
Ruscus aculeatus	Root	302.0	3000.0	-0.5134844766142346	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Micromeria varia	Shoot		3000.0	-0.675357019223463	Pedro, L.G., et al. 1995. Composition of the Essential oil of <i>Micromeria varia</i> Benth. ssp. <i>thymoides</i> (Sol. ex Lowe) Perez var. <i>thymoides</i> , and endemic species of the Madeira Archipelago. <i>flav. &amp; Fragr. J.</i> 10(3): 199-202.
Micromeria varia	Shoot		3000.0	-0.675357019223463	--
Ruscus aculeatus	Plant	1000.0	3000.0	-0.5121339088100166	Pedersen, M. 1987. <i>Nutritional Herbology</i> . Pederson Publishing. Bountiful, Utah. 377 pp.
Pinus elliottii	Leaf		3000.0	-0.7507396833089339	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Scutellaria lateriflora	Plant	411.0	3000.0	-0.5121339088100166	--
Picea glauca	Twig		3000.0	-0.5013408783157338	--
Teucrium divaricatum	Leaf		3000.0	-0.7507396833089339	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
Teucrium scorodonia	Shoot		2900.0	-0.6846129868050675	List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Artemisia herba-alba	Plant		2900.0	-0.5197337314887852	--
Teucrium scorodonia	Shoot		2900.0	-0.6846129868050675	List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Dianthus caryophyllus	Flower	30.0	2900.0	-0.3267749965757707	--
Eucalyptus polyanthemos	Shoot		2900.0	-0.6846129868050675	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.
Echinacea pallida	Flower		2800.0	-0.3301042137550042	Jim Duke's personal files.
Eucalyptus siderophloia	Shoot		2800.0	-0.6938689543866721	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ocimum gratissimum	Seed		2700.0	-0.5163670450546286	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Eucalyptus angulosa	Leaf		2600.0	-0.7859236068473062	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
Citrus limon	Pericarp		2600.0	-1.1594356213080714	--
Eleutherococcus senticosus	Stem		2600.0	-0.36140347033676956	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Eucalyptus fasciculosa	Leaf		2600.0	-0.7859236068473062	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
Hypericum perforatum	Flower		2500.0	-0.3400918652927049	--
Larrea tridentata	Plant	329.0	2500.0	-0.5501330222038597	--
Ocimum basilicum	Plant		2500.0	-0.5501330222038597	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	Plant		2500.0	-0.5501330222038597	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.
Sideritis athoa	Shoot		2500.0	-0.7216368571314856	Ozek, T., Baser, K.H.C. and Tumen, G. 1993. The Essential Oil of Sideritis athoa Papanikolaou Et Kokkini. J. Ess. Oil Res. 5: 669-670.
Crataegus laevigata	Fruit	279.0	2500.0	-0.7713693690086117	--
Elsholtzia ciliata	Plant	1000.0	2500.0	-0.5501330222038597	Chemical Constituents of Oriental Herbs (3 diff. books)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hyptis suaveolens	Shoot		2500.0	-0.7216368571314856	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		2500.0	-0.7216368571314856	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.
Elsholtzia patrinii	Plant	1000.0	2500.0	-0.5501330222038597	Chemical Constituents of Oriental Herbs (3 diff. books)
Echinacea purpurea	Root	628.0	2500.0	-0.5370357854651269	--
Levisticum officinale	Plant	500.0	2450.0	-0.553932933543244	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Eucalyptus cladocalyx	Shoot		2400.0	-0.7308928247130901	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.
Artemisia capillaris	Plant	1000.0	2300.0	-0.565332667561397	--
Hyacinthus orientalis	Flower	160.0	2300.0	-0.346750299651172	--
Litsea glaucescens	Shoot	2100.0	2300.0	-0.7401487922946945	Tucker, et al, EB46(1):21-24.1992
Hemidesmus indicus	Root	1600.0	2250.0	-0.548811439890573	--
Origanum sipyleum	Shoot		2200.0	-0.7494047598762991	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.
Armoracia rusticana	Root	500.0	2160.0	-0.5530506754837335	--
Acorus calamus	Leaf		2000.0	-0.8386994921548646	--
Lagochilus inebrians	Plant	300.0	2000.0	-0.5881321355977028	--
Sinapis alba	Seed	1000.0	2000.0	-0.5252163822922106	--
Dracocephalum thymiflora	Plant		2000.0	-0.5881321355977028	--
Yucca baccata	Root	208.0	2000.0	-0.5605870943160192	--
Lycopus virginicus	Plant	800.0	2000.0	-0.5881321355977028	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Agrimonia eupatoria</i>	Plant		2000.0	-0.5881321355977028	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
<i>Althaea officinalis</i>	Root	54.0	2000.0	-0.5605870943160192	--
<i>Elsholtzia polystachya</i>	Leaf		2000.0	-0.8386994921548646	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from <i>Elsholtzia polystachya</i> from Two Different Locations in India. <i>Planta Medica</i> 58: 376-379.
<i>Elsholtzia polystachya</i>	Leaf		2000.0	-0.8386994921548646	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from <i>Elsholtzia polystachya</i> from Two Different Locations in India. <i>Planta Medica</i> 58: 376-379.
<i>Moldavica thymiflora</i>	Plant		2000.0	-0.5881321355977028	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Coffea arabica</i>	Seed	1000.0	2000.0	-0.5252163822922106	--
<i>Prunus serotina</i>	Stem Bark		2000.0	1.0	--
<i>Stellaria media</i>	Plant	83.0	2000.0	-0.5881321355977028	--
<i>Pelargonium citrosum</i>	Shoot		2000.0	-0.7679166950395081	Matsuda, B. M., et al. 1996. Essential Oil Analysis and Field Evaluation of the Citrosa Plant ' <i>Pelargonium citrosum</i> ' as a Repellent Against Populations of <i>Aedes</i> Mosquitoes. <i>J. Am. Mosq. Contr. Assoc.</i> 12(1):69-74.
<i>Cissampelos pareira</i>	Root		2000.0	-0.5605870943160192	--
<i>Acanthospermum hispidum</i>	Plant		2000.0	-0.5881321355977028	Wealth of India.
<i>Artemisia vulgaris</i>	Plant	260.0	2000.0	-0.5881321355977028	--
<i>Ononis spinosa</i>	Root	200.0	2000.0	-0.5605870943160192	--
<i>Helichrysum angustifolium</i>	Plant	750.0	2000.0	-0.5881321355977028	--
<i>Rosa centifolia</i>	Flower		2000.0	-0.3567379511888727	--



Plant	Part	Low PPM	High PPM	StdDev	Reference
Euphrasia officinalis	Plant	1500.0	2000.0	-0.5881321355977028	--
Plantago major	Plant		2000.0	-0.5881321355977028	--
Elsholtzia pilosa	Shoot		2000.0	-0.7679166950395081	--
Lycopus europeus	Plant	500.0	2000.0	-0.5881321355977028	--
Juniperus virginiana	Leaf		2000.0	-0.8386994921548646	--
Ardisia japonica	Plant	1000.0	2000.0	-0.5881321355977028	--
Hedeoma hispida	Plant		2000.0	-0.5881321355977028	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Eucalyptus albens	Shoot		1800.0	-0.7864286302027171	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.
Laurus nobilis	Flower		1800.0	-0.3633963855473398	--
Citrus paradisi	Leaf		1800.0	-0.8562914539240508	--
Pteridium aquilinum	Rhizome		1800.0	-0.6526613210376304	--
Simarouba amara	Bark	1000.0	1800.0	-0.8078782352566183	--
Viola odorata	Flower	300.0	1700.0	-0.36672560272657334	--
Mentha aquatica	Shoot		1700.0	-0.7956845977843217	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.
Trifolium pratense	Flower		1700.0	-0.36672560272657334	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
Sideritis mugronensis	Leaf	1100.0	1600.0	-0.8738834156932369	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of Sideritis mugronensis Flower and Leaf. J. Ess. Oil Res., 3: 395-397.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Mentha aquatica	Shoot		1600.0	-0.8049405653659262	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.
Ageratum conyzoides	Plant	200.0	1600.0	-0.6185314263127774	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Eucalyptus melanophloia	Leaf		1600.0	-0.8738834156932369	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
Chrysanthemum parthenium	Shoot		1500.0	-0.8141965329475307	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.
Tagetes patula	Plant		1500.0	-0.6261312489915459	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Dictamnus albus	Leaf		1500.0	-0.88267939657783	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Teucrium scordium	Plant		1500.0	-0.6261312489915459	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Tanacetum parthenium	Shoot		1500.0	-0.8141965329475307	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.
Mentha aquatica	Shoot		1500.0	-0.8141965329475307	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
<i>Chrysanthemum x morifolium</i>	Shoot	400.0	1500.0	-0.8141965329475307	Wealth of India.
<i>Ocimum gratissimum</i>	Stem		1400.0	-0.42336941631342584	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of <i>Ocimum gratissimum</i> L. J. Ess. Oil Res. 4: 231-234.
<i>Rosmarinus officinalis</i>	Leaf		1400.0	-0.8914753774624231	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of <i>Rosmarinus officinalis</i> L. from Egypt. Flavour and Fragrance J. 9: 29-33.
<i>Rosmarinus officinalis</i>	Leaf		1400.0	-0.8914753774624231	Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of <i>Rosmarinus officinalis</i> L. from Egypt. Flavour and Fragrance J. 9: 29-33.
<i>Chrysanthemum x morifolium</i>	Flower		1400.0	-0.376713254264274	Wealth of India.
<i>Myristica fragrans</i>	Bark		1400.0	-0.8428135102947424	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Arnica montana</i>	Flower	400.0	1400.0	-0.376713254264274	--
<i>Elsholtzia blanda</i>	Shoot		1300.0	-0.8327084681107397	Bestman, H.J., Rauscher, J., Vostrowsky O., Pant, A.K., Dev. V., Perihar, R. and Mathela, C.S. 1992. Constituents of the Essential Oil of <i>Elsholtzia blanda</i> Benth. (Labiatae). J. Ess. Oils Res. 4: 121-124
<i>Erythroxylum coca</i>	Leaf	200.0	1300.0	-0.9002713583470162	--
<i>Origanum vulgare</i>	Plant		1300.0	-0.6413308943490832	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
<i>Hypericum perforatum</i>	Shoot	700.0	1250.0	-0.837336451901542	--
<i>Acorus calamus</i>	Shoot		1200.0	-0.8419644356923442	--
<i>Zea mays</i>	Silk Stigma Style	800.0	1200.0	-1.0	--
<i>Viola odorata</i>	Essential Oil	900.0	1200.0	-1.3350520743601195	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lippia alba	Leaf		1200.0	-0.9090673392316092	Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Lepidium sativum	Plant		1150.0	-0.6527306283672362	--
Mentha aquatica	Shoot		1100.0	-0.8512204032739488	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		1100.0	-0.8512204032739488	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.
Isanthus brachiatus	Plant		1000.0	-0.6641303623853891	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Moldavica parviflora	Plant		1000.0	-0.6641303623853891	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Echinacea pallida	Shoot	500.0	1000.0	-0.8604763708555533	Jim Duke's personal files.
Nepeta cilicia	Shoot		1000.0	-0.8604763708555533	--
Satureja subspicata	Plant		1000.0	-0.6641303623853891	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.
Eucalyptus viridis	Leaf		1000.0	-0.9266593010007954	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
Elaeagnus angustifolia	Flower		1000.0	-0.3900301229812082	--
Silybum marianum	Seed		1000.0	-0.5378582926316133	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Artemisia vulgaris</i>	Root		1000.0	-0.6076897120178038	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Salvia dorisiana</i>	Shoot		1000.0	-0.8604763708555533	Tucker, A.O. & Maciarelo, M.J. 1994. The Essential Oil of <i>Salvia dorisiana</i> Standley. J. Ess. Oil Res. 6: 97-8.
<i>Teucrium montanum</i>	Plant		1000.0	-0.6641303623853891	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Petasites hybridus</i>	Leaf		1000.0	-0.9266593010007954	Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
<i>Elsholtzia eriostachya</i>	Shoot		1000.0	-0.8604763708555533	Pant, A.K., Dev, V., Parihar, R., Mathela, C.S., Rauscher, J., Vostrowsky, O. and Bestmann, H.J. 1992. The Essential Oil from <i>Elsholtzia eriostachya</i> var. <i>pusilla</i> . J. Ess. Oil Res. 4: 547-549.
<i>Eucalyptus paniculata</i>	Shoot		1000.0	-0.8604763708555533	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
<i>Tagetes erecta</i>	Plant		1000.0	-0.6641303623853891	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Lantana camara</i>	Shoot		1000.0	-0.8604763708555533	--
<i>Dracocephalum parviflora</i>	Plant		1000.0	-0.6641303623853891	--
<i>Alliaria petiolata</i>	Root	330.0	930.0	-0.6109868952569286	--
<i>Teucrium polium</i>	Shoot	400.0	900.0	-0.8697323384371578	Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Minthostachys mollis</i>	Shoot	700.0	900.0	-0.8697323384371578	Alkire, B.H., Tucker, A.O., and Maciarelo, M.J. 1994. Tipo ( <i>Minthostachys mollis</i> (Lamiaceae): An Ecuadorian Mint. Econ. Bot. 48(1): 60-64.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Carica papaya	Seed		900.0	-0.5391224836655536	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Scutellaria parvula	Plant		900.0	-0.6717301850641577	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Eucalyptus ochrophloia	Leaf		900.0	-0.9354552818853885	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
Bixa orellana	Seed	755.0	844.0	-0.5398304306445602	--
Agastache pallidiflora	Leaf		830.0	-0.9416124685046037	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Origanum vulgare	Plant		800.0	-0.6793300077429263	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.
Stachys germanica	Plant		800.0	-0.6793300077429263	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Liquidambar styraciflua	Leaf		800.0	-0.9442512627699815	--
Mercurialis annua	Root		800.0	-0.6171102355581607	--
Trichostemma dichotomum	Shoot		800.0	-0.8789883060187623	Tucker, A.O. and Maciarelo, M.J. 1990. The Essential Oil of Trichostemma dichotomum. J. Ess. Oil Res. 2: 149-150.
Aralia cordata	Stem		750.0	-0.45693430371744803	--
Lantana camara	Flower		700.0	-0.4000177745189089	--
Lindera benzoin	Twig		700.0	-0.9967582876073293	--
Laurus nobilis	Wood		700.0	-1.3424749827061675	--
Teucrium arduini	Shoot		700.0	-0.8882442736003668	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Teucrium arduini	Shoot		700.0	-0.8882442736003668	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.
Stachytarpheta cayennensis	Plant	350.0	700.0	-0.686929830421695	--
Anisomeles malabarica	Flower		700.0	-0.4000177745189089	Wealth of India.
Chrysanthemum parthenium	Plant	200.0	700.0	-0.686929830421695	--
Menyanthes trifoliata	Leaf	670.0	700.0	-0.9530472436545746	--
Gardenia jasminoides	Flower		700.0	-0.4000177745189089	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Tanacetum parthenium	Plant	200.0	700.0	-0.686929830421695	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ficus carica	Leaf		700.0	-0.9530472436545746	Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.
Teucrium chamaedrys	Plant		700.0	-0.686929830421695	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Nasturtium officinale	Plant	600.0	660.0	-0.6899697594932024	--
Petroselinum crispum	Fruit		600.0	-0.8082996907619691	--
Glechoma hederacea	Plant	100.0	600.0	-0.6945296531004636	--
Marrubium vulgare	Plant	500.0	600.0	-0.6945296531004636	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Scutellaria galericulata	Plant		600.0	-0.6945296531004636	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Chrysanthemum balsamita	Plant		600.0	-0.6945296531004636	--
Glycyrrhiza glabra	Root	400.0	590.0	-0.6270017852755354	--
Alliaria petiolata	Plant	50.0	520.0	-0.7006095112434785	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Elytrigia repens</i>	Rhizome	100.0	520.0	-0.6715412748798429	--
<i>Lycopus uniflorus</i>	Plant		500.0	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Teucrium polium</i>	Shoot		500.0	-0.9067562087635759	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.
<i>Ptychopetalum olacoides</i>	Wood		500.0	-1.3486152009222871	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Satureja vulgaris</i>	Plant		500.0	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Dictamnus albus</i>	Flower		500.0	-0.406676208877376	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Teucrium gnaphalodes</i>	Shoot		500.0	-0.9067562087635759	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.
<i>Rheum palmatum</i>	Rhizome		500.0	-0.6718362741586275	--
<i>Collinsonia canadensis</i>	Plant		500.0	-0.7021294757792322	--
<i>Leonurus cardiaca</i>	Plant	100.0	500.0	-0.7021294757792322	--
<i>Cleonia lusitanica</i>	Leaf		500.0	-0.9706392054237608	Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442.
<i>Perilla frutescens</i>	Stem		500.0	-0.46984387579591813	Janicki, J., Tobolewicz, I. 1953. Perilla ocymoides-A Raw material for the Production of Natural Oils. Przem Rolny Spozyw, 7: 56-
<i>Prunus laurocerasus</i>	Leaf		500.0	-0.9706392054237608	--
<i>Panax ginseng</i>	Root	100.0	500.0	-0.631241020868696	--
<i>Acinos alpinus</i>	Shoot		500.0	-0.9067562087635759	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.)



Plant	Part	Low PPM	High PPM	StdDev	Reference
Acinos alpinus	Shoot		500.0	-0.9067562087635759	Velasco-Neguera, A., Perez-Alonso, M.J., Jimenez, S.M. and Garcia, F.M. 1993. The Volatile Constituents of <i>Acinos alpinus</i> (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Quercus alba	Bark	100.0	500.0	-0.9214178791305214	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Lycopus americanus	Plant		500.0	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Anethum graveolens	Root	300.0	500.0	-0.631241020868696	Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Rosa damascena	Flower	250.0	500.0	-0.406676208877376	--
Agastache nepetoides	Plant		500.0	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Datura stramonium	Leaf		450.0	-0.9750371958660573	--
Mitracarpus scaber	Shoot		400.0	-0.9160121763451804	I. Laakso, T.O.E. Ekpendu, A.A. Adesomoju, O. Eundayo, J. I. Okogun, (1993); Constituents of the volatile oil of <i>Mitracarpus scaber</i> Zucc., Flavour Fragr. J., Vol 8, 269-271.
Eryngium foetidum	Plant	200.0	400.0	-0.7097292984580008	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Origanum vulgare	Plant		400.0	-0.7097292984580008	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Galeopsis tetrahit	Shoot		400.0	-0.9160121763451804	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Dryopteris filix-mas	Rhizome	80.0	400.0	-0.6733112705525504	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Mangifera indica	Flower		400.0	-0.41000542605660956	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zanthoxylum alatum	Leaf		400.0	-0.9794351863083538	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Viola odorata	Root		380.0	-0.6368933349929101	--
Rosa gallica	Flower	270.0	360.0	-0.411337112928303	--
Sassafras albidum	Leaf	150.0	330.0	-0.985592372927569	--
Ballota nigra	Plant		300.0	-0.7173291211367695	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Anthriscus cerefolium	Plant		300.0	-0.7173291211367695	--
Genista tinctoria	Shoot		300.0	-0.9252681439267849	--
Nerium oleander	Flower		300.0	-0.4133346432358431	--
Smilax spp	Root		300.0	-0.640661544409053	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Micromeria myrtifolia	Shoot		300.0	-0.9252681439267849	Ozek, T., Kirimer, N., and Baser, K.H.C. 1992. Composition of the Essential Oil of Micromeria myrtifolia Boiss. et Hohen. J. Ess. Oil Res., 4: 79-80.
Scutellaria churchilliana	Plant		300.0	-0.7173291211367695	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Juglans regia	Leaf	100.0	300.0	-0.9882311671929469	--
Tropaeolum majus	Shoot		300.0	-0.9252681439267849	--
Ammi visnaga	Seed	200.0	300.0	-0.5467076298691953	--
Arctium lappa	Leaf		285.0	-0.9895505643256359	Wealth of India.
Anisomeles malabarica	Leaf		250.0	-0.9926291576352435	Wealth of India.
Vitex agnus-castus	Leaf		230.0	-0.9943883538121621	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.
Melia azedarach	Plant		200.0	-0.7249289438155381	--
Lindera benzoin	Leaf		200.0	-0.99702714807754	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lawsonia inermis	Flower	100.0	200.0	-0.41666386041507664	--
Althaea officinalis	Flower		200.0	-0.41666386041507664	Wealth of India.
Althaea officinalis	Leaf		200.0	-0.99702714807754	Wealth of India.
Azadirachta indica	Stem Bark		200.0	-1.0	--
Ribes nigrum	Leaf		200.0	-0.99702714807754	--
Brassica oleracea	Stem		190.0	-0.485851745173221	--
Senna occidentalis	Seed	175.0	182.0	-0.5481993752892449	--
Sarracenia flava	Flower		180.0	-0.4173297038509234	--
Apocynum androsaemifolium	Root		160.0	-0.6472559108873028	--
Allium cepa	Bulb	50.0	150.0	-1.2862606900150364	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Aethusa cynapium	Plant		150.0	-0.7287288551549224	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Chelidonium majus	Plant		130.0	-0.7302488196906761	--
Pinellia ternata	Tuber	30.0	130.0		--
Melilotus officinalis	Flower		130.0	-0.41899431244054014	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Pueraria montana	Leaf Essent. Oil		120.0		--
Lycium chinense	Leaf		100.0	-1.005823128962133	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.
Teucrium salviastrum	Shoot		100.0	-0.943780079089994	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.
Robinia pseudoacacia	Leaf		100.0	-1.005823128962133	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Teucrium oxylepis	Shoot		100.0	-0.943780079089994	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		100.0	-0.943780079089994	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.
Marsdenia reichenbachii	Plant		100.0	-0.7325287664943066	--
Juniperus oxycedrus	Leaf		100.0	-1.005823128962133	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Trigonella foenum-graecum	Seed		100.0	-0.5492360119370758	--
Teucrium oxylepis	Shoot		100.0	-0.943780079089994	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		100.0	-0.943780079089994	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.
Viola tricolor	Plant		86.0	-0.7335927416693343	--
Cinchona spp	Bark		50.0	-0.960720063548411	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Anisomeles malabarica	Root		50.0	-0.6524371988344991	Wealth of India.
Anisomeles malabarica	Stem		50.0	-0.4930811055371642	Wealth of India.
Cinchona pubescens	Bark		50.0	-0.960720063548411	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Glycyrrhiza uralensis	Root		50.0	-0.6524371988344991	Isaev, V. 1932. Essential Oils of the Flora of Tadshikistan. Acta Hortii Bot Tadshikistan 1932: 17-.
Passiflora edulis	Fruit Juice	23.0	43.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Malus domestica	Fruit	25.0	35.0	-0.8192816022307305	--
Theobroma cacao	Plant		10.0	-0.7393686069051985	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Solanum tuberosum	Plant		2.0	-0.7399765927195	--
Pinus sylvestris	Root				--
Leonotis leonurus	Se				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
Cyripedium pubescens	Root				--
Rheum rhabarbarum	Root				--
Paeonia lactiflora	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
Houttuynia cordata	Shoot				--
Tagetes minuta	Shoot Essent. Oil				--
Coriandrum sativum	Seed				--
Angelica sinensis	Shoot				Jim Duke's personal files.
Angelica sinensis	Tissue Culture				Jim Duke's personal files.
Anaphalis margaritacea	Plant				--
Panax quinquefolius	Root				--
Cassia marilandica	Plant				--
Mentha arvensis var. piperascens	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Ocimum basilicum	Shoot				--
Cinnamomum verum	Stem Bark				--
Cinnamomum verum	Root Bark				--
Myroxylon balsamum	Gum				--
Fragaria spp	Plant				--
Juniperus communis	Leaf				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Origanum majorana</i>	Essential Oil				--
<i>Melaleuca alternifolia</i>	Leaf Essent. Oil				--
<i>Aristolochia serpentaria</i>	Plant				--
<i>Hyssopus officinalis</i>	Shoot				--
<i>Pimpinella anisum</i>	Tissue Culture				--
<i>Elaeagnus angustifolia</i>	Shoot				Isaev, V. 1932. Essential Oils of the Flora of Tadshikistan. Acta Hortii Bot Tadshikistan 1932: 17-.
<i>Phellodendron amurense</i>	Fruit				--
<i>Quassia amara</i>	Root				--
<i>Schisandra chinensis</i>	Bark				--
<i>Coriaria myrtifolia</i>	Leaf				--
<i>Schisandra chinensis</i>	Branches				--
<i>Schisandra chinensis</i>	Leaf				--
<i>Artemisia dracunculus</i>	Leaf				--
<i>Hydrangea arborescens</i>	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Lippia javanica</i>	Plant				Neidlein, R., Staehle, R. 1974. Constituents of <i>Lippia javanica</i> . III. Deutsche Apot. Ztit., 114: 1588.
<i>Caulophyllum thalictroides</i>	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Helianthus annuus</i>	Flower				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Pinus strobus</i>	Root				--
<i>Verbena officinalis</i>	Plant				--
<i>Foeniculum vulgare</i>	Tissue Culture				Jim Duke's personal files.
<i>Rosmarinus officinalis</i>	Tissue Culture				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus citriodora	Plant				--
Anethum graveolens	Shoot				--
Pterocarpus santalinus	Wood				--
Mentha pulegium	Tissue Culture				--
Sarracenia flava	Shoot				--