

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for EO

Plant	Part	Low PPM	High PPM	StdDev	Reference
Abelmoschus moschatus	Seed	2000.0	6000.0	-0.47464874093459924	--
Abies balsamea	Leaf	6500.0	14000.0	0.21681821399630422	--
Abies alba	Leaf	2500.0	3500.0	-0.7067597788859685	--
Abies sachalinensis	Branches	16000.0	18000.0	1.2958516296906437	--
Abies spectabilis	Leaf		5000.0	-0.5748200656170724	--
Acacia farnesiana	Flower	5000.0	50000.0	1.241286294843234	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Acanthospermum hispidum	Plant		2000.0	-0.5881321355977028	Wealth of India.
Achillea millefolium	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.
Achillea moschata	Plant	3000.0	6000.0	-0.2841392284469577	--
Achillea millefolium	Plant	177.0	14000.0	0.3238465858545322	--
Achillea millefolium	Leaf	250.0	16000.0	0.3927378316881657	--
Acinos suaveolens	Shoot		6400.0	-0.3606541214489095	Tumen, G. 1991. The Volatile Constituents of Acinos suaveolens (Sibt. et Smith). G. Don fil. Growing in Turkey. J. Ess. Oil Res. 3:191-2.
Acinos alpinus	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.)
Acinos alpinus	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.)
Acorus calamus	Rhizome	10000.0	100000.0	0.7957851377946111	--
Acorus calamus	Shoot		1200.0	-0.8419644356923442	--
Acorus calamus	Leaf		2000.0	-0.8386994921548646	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Actaea racemosa</i>	Plant	1000.0	4000.0	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Aegle marmelos</i>	Leaf		6000.0	-0.4868602567711417	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Aeolanthus myriantha</i>	Flower		20200.0	0.24917957543163438	Wealth of India.
<i>Aethusa cynapium</i>	Plant		150.0	-0.7287288551549224	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Aframomum melegueta</i>	Seed	3000.0	80000.0	0.4608526241812091	--
<i>Agastache nepetoides</i>	Plant		500.0	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Agastache urticifolia</i>	Plant		6500.0	-0.24614011505311462	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Agastache pallidiflora</i>	Leaf		830.0	-0.9416124685046037	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Agastache foeniculum</i>	Plant	1000.0	12500.0	0.20984924567300284	--
<i>Agastache pallidiflora</i>	Flower	1550.0	3160.0	-0.31811903190976343	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>Ageratum conyzoides</i>	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.
<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>Alliaria petiolata</i>	Seed	5000.0	9600.0	-0.42913786371274915	--
<i>Alliaria petiolata</i>	Root	330.0	930.0	-0.6109868952569286	--
<i>Alliaria petiolata</i>	Plant	50.0	520.0	-0.7006095112434785	--
<i>Allium sativum</i> var. <i>sativum</i>	Root	370.0	4000.0	-0.46638185891244993	--
<i>Allium sativum</i> var. <i>sativum</i>	Bulb	600.0	19800.0	1.158132207353964	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Aloysia citrodora	Plant	700.0	7000.0	-0.2081410016592715	--
Alpinia galanga	Leaf		10000.0	-0.13502102138741875	--
Alpinia officinarum	Rhizome	3000.0	10000.0	-0.5317116167359565	--
Alpinia galanga	Rhizome	400.0	48000.0	0.028787012954727756	--
Althaea officinalis	Leaf		200.0	-0.99702714807754	Wealth of India.
Althaea officinalis	Root	54.0	2000.0	-0.5605870943160192	--
Althaea officinalis	Flower		200.0	-0.41666386041507664	Wealth of India.
Ammi visnaga	Seed	200.0	300.0	-0.5467076298691953	--
Amomum xanthioides	Seed	15000.0	30000.0	-0.17124289278893168	--
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.
Anaphalis margaritacea	Plant				--
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.
Anethum graveolens	Shoot				--
Anethum graveolens	Plant	5600.0	15000.0	0.39984481264221844	--
Anethum graveolens	Seed	12000.0	77000.0	0.4229268931630007	--
Anethum graveolens	Leaf	1640.0	15000.0	0.30477802284223493	--
Anethum graveolens	Fruit	12000.0	77000.0	0.6766879839519779	--
Angelica sinensis	Root	880.0	7000.0	-0.3250740058070961	--
Angelica sinensis	Tissue Culture				Jim Duke's personal files.
Angelica archangelica	Seed	2000.0	38000.0	-0.07010761007370915	--
Angelica archangelica	Root	1000.0	19000.0	0.24015740661431922	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Angelica sinensis	Shoot				Jim Duke's personal files.
Anisochilus carnosus	Leaf		11900.0	0.032102615419849656	Wealth of India.
Anisomeles malabarica	Flower		700.0	-0.4000177745189089	Wealth of India.
Anisomeles malabarica	Stem		50.0	-0.4930811055371642	Wealth of India.
Anisomeles malabarica	Root		50.0	-0.6524371988344991	Wealth of India.
Anisomeles malabarica	Leaf		250.0	-0.9926291576352435	Wealth of India.
Anthriscus cerefolium	Seed		9000.0	-0.4367230099163908	--
Anthriscus cerefolium	Plant		300.0	-0.7173291211367695	--
Apium graveolens	Seed	4200.0	30000.0	-0.17124289278893168	--
Apium graveolens	Fruit	42000.0	200000.0	3.067440392195637	--
Apocynum androsaemifolium	Root		160.0	-0.6472559108873028	--
Aralia cordata	Stem		750.0	-0.45693430371744803	--
Arctium lappa	Leaf		285.0	-0.9895505643256359	Wealth of India.
Arctium lappa	Root	600.0	7500.0	-0.3015226969562038	Wealth of India.
Ardisia japonica	Plant	1000.0	2000.0	-0.5881321355977028	--
Aristolochia serpentaria	Plant				--
Armoracia rusticana	Root	500.0	2160.0	-0.5530506754837335	--
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.
Arnica montana	Flower	400.0	1400.0	-0.376713254264274	--
Arnica montana	Root	17700.0	37400.0	1.1068455723271557	--
Arnica montana	Rhizome	5000.0	63100.0	0.25151146843707856	--
Artemisia capillaris	Plant	1000.0	2300.0	-0.565332667561397	--
Artemisia abrotanum	Plant	1800.0	21000.0	0.8558341733683359	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Artemisia vulgaris	Plant	260.0	2000.0	-0.5881321355977028	--
Artemisia dracunculus	Plant	1000.0	10000.0	0.019853678703787233	--
Artemisia dracunculus	Shoot	1000.0	10000.0	-0.027439288511147023	--
Artemisia annua	Leaf	1400.0	40000.0	2.5037732439905036	--
Artemisia pallens	Plant	1300.0	5800.0	-0.299338873804495	--
Artemisia cina	Bud	20000.0	30000.0	-0.12512224941797112	--
Artemisia absinthium	Leaf	2500.0	17000.0	0.4806976405340964	--
Artemisia dracunculus	Leaf				--
Artemisia vulgaris	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.
Artemisia herba-alba	Plant		2900.0	-0.5197337314887852	--
Asarum canadense	Rhizome	35000.0	45000.0	-0.015462878862957838	--
Asiasarum sieboldii	Root	20000.0	30000.0	0.7582862013339499	--
Astragalus gummifer	Gum	20000.0	30000.0	-1.002453444080079	--
Atractylodes lancea	Rhizome	50000.0	90000.0	0.6482854984023259	--
Azadirachta indica	Stem Bark		200.0	-1.0	--
Ballota nigra	Plant		300.0	-0.7173291211367695	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Barosma betulina	Leaf	15000.0	35000.0	2.0639741997608496	--
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Betula lenta	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.
Bixa orellana	Leaf		4000.0	-0.6627798744630032	Wealth of India.
Bixa orellana	Seed	755.0	844.0	-0.5398304306445602	--
Boronia megastigma	Flower	4000.0	8000.0	-0.15698492043485934	--
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.
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.
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.
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.
Brassica oleracea	Stem		190.0	-0.485851745173221	--
Bursera delpechiana	Wood	25000.0	120000.0	2.3201651832092245	--
Calamintha nepeta	Leaf		8000.0	-0.3109406390792802	Akgul, A., De Pooter, H.L., and De Buyck, L.F. 1991. The Essential Oils of Calamintha nepeta subsp. glandulosa and Ziziphora clinopodioides from Turkey. J. Ess. Oil Res., 3: 7-10.
Calamintha nepeta	Plant		6000.0	-0.2841392284469577	J. Ethnopharmacology, 39: 167.
Calamintha nepeta	Shoot		4500.0	-0.5365175054993953	Kirimer, N., Baser, K.H.C., Ozek, T. and Kurkuoglu, M. 1992. Composition of the Essential Oil of Calamintha nepeta subsp. glandulosa. J. Ess. Oil Res. 4:189-190
Calendula officinalis	Flower	200.0	4000.0	-0.29015360760420156	--
Camellia sinensis	Leaf	30.0	10000.0	-0.13502102138741875	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cananga odorata	Flower	5000.0	25000.0	0.40898200003484503	--
Canarium indicum	Gum	100000.0	250000.0	-0.26732091842135447	--
Cannabis sativa	Bud	1300.0	8000.0	-1.157380807116231	--
Capsicum frutescens	Fruit		16000.0	-0.5089697144452834	--
Capsicum annuum	Fruit	1290.0	5000.0	-0.7227768403857732	--
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.
Carum carvi	Plant		10000.0	0.019853678703787233	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Carum carvi	Seed	20000.0	82000.0	0.4861364448600147	--
Carum carvi	Fruit	30000.0	70000.0	0.54062890380803	--
Cassia marilandica	Plant				--
Caulophyllum thalictroides	Root				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	--
Cedrus deodora	Wood		25000.0	-0.5964384694476258	--
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.
Chamaemelum nobile	Plant	6000.0	17500.0	0.5898403796114341	--
Chelidonium majus	Plant		130.0	-0.7302488196906761	--
Chenopodium ambrosioides	Leaf	2000.0	3000.0	-0.7507396833089339	--
Chenopodium ambrosioides	Fruit	1830.0	25000.0	-0.33403661140306445	--
Chrysanthemum balsamita	Plant		600.0	-0.6945296531004636	--
Chrysanthemum x morifolium	Shoot	400.0	1500.0	-0.8141965329475307	Wealth of India.
Chrysanthemum x morifolium	Flower		1400.0	-0.376713254264274	Wealth of India.
Chrysanthemum parthenium	Plant	200.0	700.0	-0.686929830421695	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Cimicifuga racemosa	Root	210.0	4000.0	-0.46638185891244993	--
Cimicifuga racemosa	Plant	1000.0	4000.0	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Cinchona spp	Bark		50.0	-0.960720063548411	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Cinchona pubescens	Bark		50.0	-0.960720063548411	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Cinnamomum verum	Root Bark				--
Cinnamomum aromaticum	Bark	2000.0	25000.0	1.2183677169545755	--
Cinnamomum verum	Stem Bark				--
Cinnamomum verum	Bark	3500.0	40000.0	2.5284405308842266	--
Cinnamomum verum	Leaf	5000.0	12000.0	0.04089859630444273	--
Cinnamomum aromaticum	Leaf	3100.0	7700.0	-0.33732858173305946	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Cinnamomum camphora	Leaf	5000.0	10000.0	-0.13502102138741875	--
Cissampelos pareira	Root		2000.0	-0.5605870943160192	--
Cistus ladaniferus	Essential Oil	1000.0	70000.0	1.071539612521354	--
Citrus reticulata	Fruit	7500.0	10000.0	-0.625591783140096	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Citrus limon	Pt	2000.0	6000.0	1.0	--
Citrus aurantium	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.
Citrus paradisi	Fruit	6000.0	10000.0	-0.625591783140096	--
Citrus paradisi	Pericarp	3700.0	10000.0	-0.12155373449197493	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Citrus aurantiifolia	Plant	3000.0	10000.0	0.019853678703787233	--
Citrus aurantiifolia	Pt		3100.0	-1.0	--
Citrus aurantium	Flower	1000.0	5000.0	-0.256861435811866	--
Citrus sinensis	Pericarp	15000.0	20000.0	1.2809893558000476	--
Citrus paradisi	Leaf		1800.0	-0.8562914539240508	--
Citrus sinensis	Fruit	7500.0	10000.0	-0.625591783140096	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Citrus limon	Pericarp		2600.0	-1.1594356213080714	--
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.
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.
Cleonia lusitanica	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.
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.
Cnidium officinale	Rhizome	10000.0	20000.0	-0.38421197734367113	--
Coffea arabica	Seed	1000.0	2000.0	-0.5252163822922106	--
Collinsonia canadensis	Plant		500.0	-0.7021294757792322	--
Commiphora myrrha	Resin, Exudate, Sap	15000.0	170000.0	0.28683450001654326	--
Conium maculatum	Plant		10000.0	0.019853678703787233	--
Conyza canadensis	Plant	2600.0	6000.0	-0.2841392284469577	--
Copaifera spp	Gum	300000.0	900000.0	1.9046615437521506	--
Coriandrum sativum	Fruit	2000.0	26000.0	-0.31459959995392905	--
Coriandrum sativum	Seed Essent. Oil	100.0	14900.0	-1.0	--
Coriandrum sativum	Seed				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Coriandrum sativum	Leaf		10000.0	-0.13502102138741875	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Coriaria myrtifolia	Leaf				--
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.
Crataegus laevigata	Fruit	279.0	2500.0	-0.7713693690086117	--
Crocus sativus	Silk Stigma Style	3700.0	13700.0	1.0	--
Croton eluteria	Bark	15000.0	30000.0	1.655058654931126	--
Cuminum cyminum	Seed	20000.0	50000.0	0.08159531399912463	--
Cuminum cyminum	Fruit	20000.0	50000.0	0.1518886748253213	--
Cunila origanoides	Shoot		28000.0	1.6386348761776655	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Curcuma zedoaria	Rhizome	10000.0	15000.0	-0.45796179703981377	--
Curcuma longa	Plant	15500.0	80000.0	5.339729553841824	--
Curcuma xanthorrhiza	Rhizome	30000.0	295000.0	3.672028105944175	--
Curcuma longa	Leaf		4100.0	-0.6539838935784101	--
Curcuma longa	Rhizome	3000.0	72000.0	0.38278614749621226	--
Cymbopogon parkeri	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.
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.
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Cymbopogon winterianus	Plant	4000.0	7000.0	-0.2081410016592715	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
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.
Cymbopogon citratus	Plant	2000.0	30000.0	1.539818214457512	--
Cyperus rotundus	Root	5000.0	10000.0	-0.18376615270174232	--
Cyripedium pubescens	Root				--
Datura stramonium	Leaf		450.0	-0.9750371958660573	--
Daucus carota	Seed	4000.0	8000.0	-0.4493649202557936	--
Daucus carota	Root		4000.0	-0.46638185891244993	--
Daucus carota	Shoot		4000.0	-0.5827973434074178	--
Dianthus caryophyllus	Flower	30.0	2900.0	-0.3267749965757707	--
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	Leaf		1500.0	-0.88267939657783	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
Dictamnus albus	Flower		500.0	-0.406676208877376	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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
Dracocephalum thymiflora	Plant		2000.0	-0.5881321355977028	--
Dracocephalum parviflora	Plant		1000.0	-0.6641303623853891	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Drimys winteri</i>	Bark		10000.0	-0.09170509697507558	--
<i>Dryopteris filix-mas</i>	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.
<i>Echinacea</i> spp	Flower	600.0	6000.0	-0.22356926401953045	Economic & Medicinal Plant Research, 5: 253.
<i>Echinacea angustifolia</i>	Root	400.0	13000.0	-0.04245829959638836	--
<i>Echinacea pallida</i>	Flower		2800.0	-0.3301042137550042	Jim Duke's personal files.
<i>Echinacea</i> spp	Root	50.0	40000.0	1.2293123783517959	--
<i>Echinacea purpurea</i>	Flower	1300.0	4800.0	-0.2635198701703331	Jim Duke's personal files.
<i>Echinacea purpurea</i>	Root	628.0	2500.0	-0.5370357854651269	--
<i>Echinacea pallida</i>	Shoot	500.0	1000.0	-0.8604763708555533	Jim Duke's personal files.
<i>Echinacea</i> spp	Leaf	100.0	6000.0	-0.4868602567711417	Economic & Medicinal Plant Research, 5: 253.
<i>Echinacea purpurea</i>	Shoot	900.0	3200.0	-0.656845084060254	Jim Duke's personal files.
<i>Echinacea pallida</i>	Root	2000.0	23000.0	0.42856787742145763	--
<i>Elaeagnus angustifolia</i>	Flower		1000.0	-0.3900301229812082	--
<i>Elaeagnus angustifolia</i>	Shoot				Isaev, V. 1932. Essential Oils of the Flora of Tadshikistan. Acta Hortii Bot Tadshikistan 1932: 17-.
<i>Elettaria cardamomum</i>	Fruit	25000.0	100000.0	1.1237392472820933	--
<i>Elettaria cardamomum</i>	Seed Essent. Oil		64500.0	1.0	--
<i>Eleutherococcus senticosus</i>	Root		8000.0	-0.2779713881053115	--
<i>Eleutherococcus senticosus</i>	Leaf		3100.0	-0.7419437024243408	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Eleutherococcus senticosus</i>	Fruit		5000.0	-0.7227768403857732	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Eleutherococcus senticosus</i>	Stem		2600.0	-0.36140347033676956	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Elsholtzia polystachya	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 Elsholtzia polystachya from Two Different Locations in India. Planta Medica 58: 376-379.
Elsholtzia eriostachya	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 Elsholtzia eriostachya var. pusilla. J. Ess. Oil Res. 4: 547-549.
Elsholtzia pilosa	Shoot		2000.0	-0.7679166950395081	--
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.
Elsholtzia blanda	Shoot		1300.0	-0.8327084681107397	Bestman, H.J., Rauscher, J., Vostrowsky O., Pant, A.K., Dev, V., Parihar, R. and Mathela, C.S. 1992. Constituents of the Essential Oil of Elsholtzia blanda Benth. (Labiatae). J. Ess. Oils Res. 4: 121-124
Elsholtzia polystachya	Leaf		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 Elsholtzia polystachya from Two Different Locations in India. Planta Medica 58: 376-379.
Elsholtzia patrini	Plant	1000.0	2500.0	-0.5501330222038597	Chemical Constituents of Oriental Herbs (3 diff. books)
Elsholtzia ciliata	Plant	1000.0	2500.0	-0.5501330222038597	Chemical Constituents of Oriental Herbs (3 diff. books)
Elytrigia repens	Rhizome	100.0	520.0	-0.6715412748798429	--
Ephedra sinica	Plant	1000.0	4000.0	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Erythroxylum coca	Leaf	200.0	1300.0	-0.9002713583470162	--
Eucalyptus bosistoana	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.
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 Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
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
Eucalyptus tereticornis	Shoot		4500.0	-0.5365175054993953	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 polyanthemos	Shoot		2900.0	-0.6846129868050675	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 occidentalis	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.
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

Plant	Part	Low PPM	High PPM	StdDev	Reference
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 lansdowneana	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 Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
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.
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
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.
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
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.

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
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.
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.
Eucalyptus citriodora	Plant				--
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
Eucalyptus stoatei	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 Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
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
Eucalyptus paniculata	Shoot		1000.0	-0.8604763708555533	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 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.
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
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.
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.
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

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
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 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.
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
Eucalyptus globulus	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.
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.
Eucalyptus astringens	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.
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus sideroxylon	Shoot		5500.0	-0.4439578296833501	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 leucoxylon	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
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
Eucalyptus punctata	Shoot		15700.0	0.5001508636403103	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 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.
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
Eucalyptus melliodora	Shoot		16800.0	0.60196650703796	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus 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 dealbata	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.
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
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
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
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

Plant	Part	Low PPM	High PPM	StdDev	Reference
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
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.
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
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.
Eugenia brasiliensis	Leaf		15000.0	0.30477802284223493	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Eugenia brasiliensis	Bark		15000.0	0.3449858410014748	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Euodia rutaecarpa	Fruit		20000.0	-0.4312216686487416	--
Eupatorium triplinerve	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.
Euphrasia officinalis	Plant	1500.0	2000.0	-0.5881321355977028	--
Ferula jaeschkeana	Root		12000.0	-0.08956091729817296	--
Ferula assa-foetida	Gum	30000.0	170000.0	-0.5346418368427087	--
Ferula jaeschkeana	Fruit		38000.0	-0.08135546256430386	--
Ferula alliacea	Fruit		9000.0	-0.6450287945892313	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ferula sumbul	Plant		10000.0	0.019853678703787233	--
Ferula gummosa	Gum	50000.0	300000.0	-0.10024534440800792	--
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.
Foeniculum vulgare	Tissue Culture				Jim Duke's personal files.
Foeniculum vulgare	Plant		10000.0	0.019853678703787233	--
Foeniculum vulgare	Seed	2160.0	60000.0	0.2080144173931528	--
Foeniculum vulgare	Fruit	10000.0	80000.0	0.7349990182993845	--
Foeniculum vulgare	Root	5000.0	7000.0	-0.3250740058070961	--
Fragaria spp	Plant				--
Galeopsis tetrahit	Shoot		400.0	-0.9160121763451804	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Galipea officinalis	Bark	10000.0	20000.0	0.7816767789780251	--
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.
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.
Gaultheria procumbens	Leaf	5500.0	8000.0	-0.3109406390792802	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Gelsemium sempervirens	Root		5000.0	-0.41927924121066534	--
Genista tinctoria	Shoot		300.0	-0.9252681439267849	--
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.
Glechoma hederacea	Plant	100.0	600.0	-0.6945296531004636	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Glycyrrhiza uralensis	Root		50.0	-0.6524371988344991	Isaev, V. 1932. Essential Oils of the Flora of Tadshikistan. Acta Hortii Bot Tadshikistan 1932: 17-.
Glycyrrhiza glabra	Root	400.0	590.0	-0.6270017852755354	--
Grindelia squarrosa	Plant		3000.0	-0.5121339088100166	--
Guaiacum sp.	Wood	50000.0	60000.0	0.4780997183733189	--
Hamamelis virginiana	Leaf		5000.0	-0.5748200656170724	--
Hedeoma hispida	Plant		2000.0	-0.5881321355977028	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hedeoma pulegioides	Shoot	6000.0	10000.0	-0.027439288511147023	--
Hedeoma reverchonii	Plant		10000.0	0.019853678703787233	--
Hedeoma drummondii	Plant		10000.0	0.019853678703787233	--
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.
Hedychium flavum	Shoot		10000.0	-0.027439288511147023	--
Helianthus annuus	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.
Helichrysum angustifolium	Plant	750.0	2000.0	-0.5881321355977028	--
Hemidesmus indicus	Root	1600.0	2250.0	-0.548811439890573	--
Houttuynia cordata	Shoot				--
Houttuynia cordata	Plant		5000.0	-0.36013745523464397	--
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.
Humulus lupulus	Flower	2000.0	10000.0	-0.09040057685018825	--
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.
Hyacinthus orientalis	Flower	160.0	2300.0	-0.346750299651172	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hydrangea arborescens	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Hypericum perforatum	Plant	500.0	9000.0	-0.05614454808389901	--
Hypericum perforatum	Flower		2500.0	-0.3400918652927049	--
Hypericum perforatum	Shoot	700.0	1250.0	-0.837336451901542	--
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.
Hyptis suaveolens	Plant		15000.0	0.39984481264221844	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 74.
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 emoryi	Plant		4000.0	-0.4361356820223302	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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.
Hyssopus officinalis	Plant	300.0	20000.0	0.7798359465806497	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
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		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot				--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
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		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Hyssopus officinalis	Shoot		10000.0	-0.027439288511147023	--
Ilex paraguariensis	Leaf		3000.0	-0.7507396833089339	--
Illicium verum	Fruit	50000.0	100000.0	1.1237392472820933	--
Illicium verum	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.
Illicium verum	Leaf		10000.0	-0.13502102138741875	--
Inula helenium	Plant	5700.0	54000.0	3.3637756573619817	--
Inula helenium	Fruit	10000.0	40000.0	-0.042481439666032995	--
Iris x germanica	Rhizome	1000.0	20000.0	-0.38421197734367113	--
Isanthus brachiatus	Plant		1000.0	-0.6641303623853891	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Jasminum officinale	Flower	2400.0	3800.0	-0.2968120419626687	--
Jateorhiza palmata	Root	700.0	15000.0	0.05174693580718084	--
Juglans regia	Leaf	100.0	300.0	-0.9882311671929469	--
Juniperus communis	Leaf				--
Juniperus oxycedrus	Wood		15000.0	-0.90344938025361	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Juniperus virginiana	Wood	15000.0	45000.0	0.01758335216434249	--
Juniperus communis	Fruit	6200.0	40000.0	-0.042481439666032995	--
Juniperus oxycedrus	Leaf		100.0	-1.005823128962133	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Juniperus virginiana	Leaf		2000.0	-0.8386994921548646	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Juniperus sabina	Shoot	30000.0	50000.0	3.6749477441306584	--
Juniperus oxycedrus	Fruit	13000.0	15000.0	-0.5284067258944188	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Lagochilus inebrians	Plant	300.0	2000.0	-0.5881321355977028	--
Lantana camara	Leaf	500.0	3200.0	-0.7331477215397478	--
Lantana camara	Flower		700.0	-0.4000177745189089	--
Lantana camara	Shoot		1000.0	-0.8604763708555533	--
Larrea tridentata	Plant	329.0	2500.0	-0.5501330222038597	--
Laurus nobilis	Leaf		5700.0	-0.513248199424921	--
Laurus nobilis	Flower		1800.0	-0.3633963855473398	--
Laurus nobilis	Fruit	10000.0	40000.0	-0.042481439666032995	--
Laurus nobilis	Wood		700.0	-1.3424749827061675	--
Laurus nobilis	Bark		6800.0	-0.37118729728006783	--
Lavandula x intermedia	Plant	10000.0	18000.0	0.6278394930052772	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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.
Lavandula latifolia	Plant	5000.0	11000.0	0.09585190549147347	--
Lavandula angustifolia	Flower	3000.0	40000.0	0.9083645769198783	--
Lawsonia inermis	Flower	100.0	200.0	-0.41666386041507664	--
Ledum palustre	Leaf	3000.0	25000.0	1.1843761113015423	--
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

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Leonurus cardiaca	Plant	100.0	500.0	-0.7021294757792322	--
Lepechinia calycina	Plant		5000.0	-0.36013745523464397	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lepechinia schiediana	Plant		4000.0	-0.4361356820223302	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lepidium sativum	Plant		1150.0	-0.6527306283672362	--
Levisticum officinale	Plant	500.0	2450.0	-0.553932933543244	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Levisticum officinale	Seed	8000.0	11000.0	-0.41143918923758516	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Levisticum officinale	Root	1000.0	18000.0	0.19305478891253464	--
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.
Lindera benzoin	Fruit	4140.0	4260.0	-0.7371602288581334	--
Lindera benzoin	Twig		700.0	-0.9967582876073293	--
Lindera benzoin	Leaf		200.0	-0.99702714807754	--
Lippia alba	Leaf		1200.0	-0.9090673392316092	Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Lippia javanica	Plant				Neidlein, R., Staehle, R. 1974. Constituents of Lippia javanica. III. Deutsche Apot. Ztit., 114: 1588.
Liquidambar orientalis	Resin, Exudate, Sap	5000.0	10000.0	-1.5959765770151253	--
Liquidambar styraciflua	Resin, Exudate, Sap	150000.0	200000.0	0.6398615769599811	--
Liquidambar styraciflua	Leaf		800.0	-0.9442512627699815	--
Litsea glaucescens	Shoot	2100.0	2300.0	-0.7401487922946945	Tucker, et al, EB46(1):21-24.1992

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Lycium chinense</i>	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.
<i>Lycopus americanus</i>	Plant		500.0	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lycopus uniflorus</i>	Plant		500.0	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lycopus europeus</i>	Plant	500.0	2000.0	-0.5881321355977028	--
<i>Lycopus virginicus</i>	Plant	800.0	2000.0	-0.5881321355977028	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Magnolia officinalis</i>	Bark	3000.0	10000.0	-0.09170509697507558	--
<i>Malus domestica</i>	Fruit	25.0	35.0	-0.8192816022307305	--
<i>Mangifera indica</i>	Flower		400.0	-0.41000542605660956	--
<i>Marrubium vulgare</i>	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.
<i>Marsdenia reichenbachii</i>	Plant		100.0	-0.7325287664943066	--
<i>Matricaria recutita</i>	Flower	2400.0	20000.0	0.24252114107316727	--
<i>Melaleuca alternifolia</i>	Leaf	10000.0	25000.0	1.1843761113015423	--
<i>Melaleuca leucadendra</i>	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.
<i>Melaleuca bracteata</i>	Leaf	4000.0	10000.0	-0.13502102138741875	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Melaleuca leucadendra</i>	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.
<i>Melaleuca linariifolia</i>	Leaf	15000.0	20000.0	0.7445770670718886	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Melaleuca alternifolia</i>	Leaf Essent. Oil				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Melaleuca cajuputi	Leaf		10000.0	-0.13502102138741875	--
Melaleuca viridiflora	Leaf	10000.0	26000.0	1.272335920147473	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Melia azedarach	Plant		200.0	-0.7249289438155381	--
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.
Melissa officinalis	Shoot	100.0	8000.0	-0.2125586401432373	--
Mentha pulegium	Tissue Culture				--
Mentha x piperita	Plant	1000.0	40000.0	2.2998004823343745	--
Mentha longifolia	Plant	10000.0	38000.0	2.147804028759002	--
Mentha aquatica	Shoot		1100.0	-0.8512204032739488	Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha x piperita	Leaf	2980.0	30000.0	1.624175155531196	--
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.
Mentha pulegium	Leaf		9200.0	-0.20538886846416335	--
Mentha spicata	Leaf	1000.0	25000.0	1.1843761113015423	--
Mentha arvensis var. piperascens	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Mentha aquatica</i>	Shoot		1100.0	-0.8512204032739488	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
<i>Mentha x rotundifolia</i>	Leaf	600.0	10000.0	-0.13502102138741875	Guenther, E., <i>The Essential Oils</i> , 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Mentha pulegium</i>	Shoot	3500.0	20000.0	0.8981574696493044	--
<i>Mentha pulegium</i>	Plant	10000.0	20000.0	0.7798359465806497	--
<i>Mentha arvensis</i> var. <i>piperascens</i>	Plant	10000.0	32100.0	1.699414490711653	--
<i>Mentha aquatica</i>	Shoot		1700.0	-0.7956845977843217	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
<i>Mentha aquatica</i>	Leaf	3000.0	8500.0	-0.26696073465631487	List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Menyanthes trifoliata</i>	Leaf	670.0	700.0	-0.9530472436545746	--
<i>Mercurialis annua</i>	Root		800.0	-0.6171102355581607	--
<i>Micromeria fruticosa</i>	Shoot		24000.0	1.268396172913485	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of <i>Micromeria fruticosa</i> (L.) Druce subsp. <i>barbata</i> (Boiss et. Ky.), P.H. Davis. <i>Aromatic Plants of the Holy Land and the Sinai</i> . Part VII. <i>J. Ess. Oil Res</i> 3: 477-479.
<i>Micromeria juliana</i>	Leaf		10000.0	-0.13502102138741875	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
<i>Micromeria congesta</i>	Leaf		10000.0	-0.13502102138741875	--
<i>Micromeria myrtifolia</i>	Shoot		300.0	-0.9252681439267849	Ozek, T., Kirimer, N., and Baser, K.H.C. 1992. Composition of the Essential Oil of <i>Micromeria myrtifolia</i> Boiss. et Hohen. <i>J. Ess. Oil Res.</i> , 4: 79-80.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Micromeria fruticosa	Shoot		24000.0	1.268396172913485	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of <i>Micromeria fruticosa</i> (L.) Druce subsp. <i>barbata</i> (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res 3: 477-479.
Micromeria thymifolia	Leaf		10000.0	-0.13502102138741875	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393.
Micromeria dalmatica	Leaf		10000.0	-0.13502102138741875	--
Micromeria varia	Shoot		3000.0	-0.675357019223463	--
Micromeria fruticosa	Leaf		30000.0	1.624175155531196	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393.
Micromeria teneriffae	Leaf		10000.0	-0.13502102138741875	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393.
Micromeria croatica	Leaf		10000.0	-0.13502102138741875	--
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. flav. & Fragr. J. 10(3): 199-202.
Minthostachys mollis	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.
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.
Moldavica thymiflora	Plant		2000.0	-0.5881321355977028	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Monarda media	Plant		7000.0	-0.2081410016592715	--
Monarda didyma	Shoot	1000.0	10000.0	-0.027439288511147023	--
Monarda clinopodia	Plant		10000.0	0.019853678703787233	--
Monarda citriodora	Shoot		10000.0	-0.027439288511147023	--
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.
Monarda russeliana	Plant		10000.0	0.019853678703787233	--
Monarda lindheimeri	Plant		10000.0	0.019853678703787233	--
Monarda didyma	Leaf	7000.0	13000.0	0.12885840515037347	--
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.
Monarda punctata	Plant	10000.0	30000.0	1.539818214457512	--
Monarda fistulosa	Plant	3000.0	31000.0	1.6158164412451983	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Monarda didyma	Flower		3700.0	-0.3001412591419022	Flavour and Fragrance Journal, 6: 80.
Murraya koenigii	Leaf	2300.0	26000.0	1.272335920147473	--
Myrica cerifera	Plant	2000.0	4000.0	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Myrica cerifera	Bark	436.0	4000.0	-0.6157342225469362	--
Myristica fragrans	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.
Myristica fragrans	Bark		1400.0	-0.8428135102947424	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Myristica fragrans	Seed	20000.0	160000.0	1.4722054513334344	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Myristica fragrans</i>	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.
<i>Myroxylon balsamum</i>	Gum				--
<i>Myrtus communis</i>	Plant	1667.0	5900.0	-0.29173905112572635	--
<i>Myrtus communis</i>	Leaf	1000.0	5000.0	-0.5748200656170724	--
<i>Narcissus tazetta</i>	Flower	2100.0	4500.0	-0.2735075217080338	--
<i>Nardostachys jatamansi</i>	Root	19000.0	20000.0	0.2872600243161038	--
<i>Nardostachys chinensis</i>	Rhizome	10000.0	32000.0	-0.20721241007292873	--
<i>Nasturtium officinale</i>	Plant	600.0	660.0	-0.6899697594932024	--
<i>Nepeta racemosa</i>	Shoot		11000.0	0.06512038730489812	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of <i>Nepeta racemosa</i> Lam. J. Ess. Oil Res. 5: 215-7.
<i>Nepeta cilicia</i>	Shoot		1000.0	-0.8604763708555533	--
<i>Nepeta cataria</i>	Plant	2000.0	13000.0	0.24784835906684596	Bourrel, C., Perineau, F., Michel, G., Bessiere, J.M. 1993. Catnip (<i>Nepeta cataria</i> L.) Essential Oil: Analysis of Chemical Constituents, Bacteriostatic and Fungistatic Properties. J. Ess. Oil Res., 5: 159-167.
<i>Nepeta racemosa</i>	Shoot		11000.0	0.06512038730489812	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of <i>Nepeta racemosa</i> Lam. J. Ess. Oil Res. 5: 215-7.
<i>Nerium oleander</i>	Flower		300.0	-0.4133346432358431	--
<i>Nigella sativa</i>	Seed Oil		4500.0		--
<i>Nigella sativa</i>	Seed	4000.0	16000.0	-0.3482296375405711	--
<i>Ocimum suave</i>	Shoot		4000.0	-0.5827973434074178	J. Nat. Prod. 44: 308.
<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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
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 gratissimum	Seed		2700.0	-0.5163670450546286	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum sanctum	Leaf	6000.0	7000.0	-0.39890044792521095	--
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.
Ocimum gratissimum	Stem		1400.0	-0.42336941631342584	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.
Ocimum gratissimum	Plant	1000.0	6000.0	-0.2841392284469577	--
Ocimum tenuiflorum	Leaf	1000.0	9000.0	-0.2229808302333495	--
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 gratissimum	Leaf	12000.0	14700.0	0.27839008018845574	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.
Ocimum kilimandscharicum	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.
Ocimum basilicum	Shoot				--
Ocimum canum	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Oenanthe aquatica	Fruit	10000.0	25000.0	-0.33403661140306445	--
Ononis spinosa	Root	200.0	2000.0	-0.5605870943160192	--
Opopanax chironium	Resin, Exudate, Sap	30000.0	65000.0	-0.9487602692854892	--
Origanum vulgare	Plant	1500.0	10000.0	0.019853678703787233	--
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.
Origanum vulgare	Plant		34000.0	1.843811121608257	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum syriacum	Shoot		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 sipyleum	Shoot		16800.0	0.60196650703796	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of Origanum sipyleum of Turkish Origin. J. Ess. Oil Res. 4: 139-142.
Origanum sipyleum	Shoot		17000.0	0.620478442201169	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of Origanum sipyleum of Turkish Origin. J. Ess. Oil Res. 4: 139-142.
Origanum 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.
Origanum minutiflorum	Shoot	22400.0	24400.0	1.305420043239903	Baser, K.H.C., Tumen, G., Sezik, E. 1991. The Essential Oil of Origanum minutiflorum O. Schwarz and P.H. Davis. J. Ess. Oil Res. 3: 445-446.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Origanum vulgare	Shoot		4800.0	-0.5087496027545817	Isaev, V. 1932. Essential Oils of the Flora of Tadshikistan. Acta Hortii Bot Tadshikistan 1932: 17-.
Origanum majorana	Plant	3000.0	30000.0	1.539818214457512	--
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.
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 sipyleum	Shoot		17000.0	0.620478442201169	Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of Origanum sipyleum of Turkish Origin. J. Ess. Oil Res. 4: 139-142.
Origanum onites	Shoot		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. Flav. & Frag. J. 8: 331-7.
Origanum vulgare	Plant		1300.0	-0.6413308943490832	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum majorana	Essential Oil				--
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.
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 Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
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.
Paeonia officinalis	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.
Paeonia lactiflora	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
Panax quinquefolius	Root				--
Panax ginseng	Root	100.0	500.0	-0.631241020868696	--
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.
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.
Pelargonium citrosum	Shoot		2000.0	-0.7679166950395081	Matsuda, B. M., et al. 1996. Essential Oil Analysis and Field Evaluation of the Citrosa Plant 'Pelargonium citrosum' as a Repellent Against Populations of Aedes Mosquitoes. J. Am. Mosq. Contr. Assoc. 12(1):69-74.
Pelargonium roseum	Shoot		18000.0	0.7130381180172141	--
Pelargonium graveolens	Plant	800.0	4000.0	-0.4361356820223302	--
Perilla frutescens	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-.
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.
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-.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Persea americana</i>	Leaf	5000.0	31000.0	1.7121349643771269	--
<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>Petroselinum crispum</i>	Root	500.0	5000.0	-0.41927924121066534	--
<i>Petroselinum crispum</i>	Fruit		600.0	-0.8082996907619691	--
<i>Petroselinum crispum</i>	Leaf	600.0	3000.0	-0.7507396833089339	--
<i>Petroselinum crispum</i>	Plant	40.0	3000.0	-0.5121339088100166	--
<i>Petroselinum crispum</i>	Seed	15000.0	70000.0	0.33443352078718097	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Peucedanum ostruthium</i>	Root	2000.0	14000.0	0.004644318105396236	--
<i>Peumus boldus</i>	Leaf	16000.0	30000.0	1.624175155531196	--
<i>Phellodendron amurense</i>	Fruit				--
<i>Picea mariana</i>	Twig		4610.0	-0.15454869181161726	--
<i>Picea glauca</i>	Twig		3000.0	-0.5013408783157338	--
<i>Pilocarpus microphyllus</i>	Leaf	2500.0	3000.0	-0.7507396833089339	--
<i>Pilocarpus jaborandi</i>	Leaf		5000.0	-0.5748200656170724	--
<i>Pimenta dioica</i>	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.
<i>Pimenta racemosa</i>	Leaf	7500.0	39000.0	2.415813435144573	--
<i>Pimenta dioica</i>	Leaf	7500.0	12500.0	0.0848785007274081	--
<i>Pimpinella anisum</i>	Plant	10000.0	60000.0	3.819765018088099	--
<i>Pimpinella anisum</i>	Seed	6100.0	140000.0	1.219367244545378	--
<i>Pimpinella anisum</i>	Tissue Culture				--
<i>Pinellia ternata</i>	Tuber	30.0	130.0		--
<i>Pinus palustris</i>	Resin, Exudate, Sap	200000.0	250000.0	1.2282400385323775	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Pinus elliottii</i>	Resin, Exudate, Sap	200000.0	250000.0	1.2282400385323775	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pinus sylvestris	Root				--
Pinus palustris	Leaf		4000.0	-0.6627798744630032	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Pinus elliottii	Leaf		3000.0	-0.7507396833089339	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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.
Pinus strobus	Root				--
Pinus sylvestris	Leaf	2000.0	5000.0	-0.5748200656170724	--
Pinus mugo	Leaf	1200.0	6100.0	-0.47806427588654865	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Piper nigrum	Fruit		15000.0	-0.5284067258944188	--
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.
Piper cubeba	Fruit Essent. Oil		118500.0		--
Piper cubeba	Fruit	50000.0	200000.0	3.067440392195637	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Piper angustifolium	Leaf	9000.0	35000.0	2.0639741997608496	--
Piper betel	Leaf	2000.0	42000.0	2.6796928616823648	--
Pistacia lentiscus	Leaf	10000.0	30000.0	1.624175155531196	--
Plantago major	Plant		2000.0	-0.5881321355977028	--
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.
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Pogostemon cablin	Plant	15000.0	58000.0	3.6677685645127265	--
Polianthes tuberosa	Flower	800.0	15000.0	0.07606028211148952	--
Populus nigra	Bulb		5000.0	-0.6829372522420262	--
Populus tacamahacca	Bulb		20000.0	1.1830115243755313	--
Porophyllum ruderale	Plant	3000.0	4500.0	-0.3981365686284871	Loayza, I., de Groot, W., Lorenzo, D. et al. 1999. Composition of the essential oil of Porophyllum ruderale (Jacq.) Cass. from Bolivia. Flav. & Fragr. J. 14: 393-8.
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.
Prunus laurocerasus	Leaf		500.0	-0.9706392054237608	--
Prunus armeniaca	Seed	8000.0	16000.0	-0.3482296375405711	--
Prunus dulcis	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.
Prunus cerasus	Seed		10000.0	-0.424081099576988	--
Prunus serotina	Stem Bark		2000.0	1.0	--
Psidium guajava	Leaf	2600.0	3600.0	-0.6979637980013755	--
Psoralea corylifolia	Seed	500.0	200000.0	1.977881864909547	--
Pteridium aquilinum	Rhizome		1800.0	-0.6526613210376304	--
Pterocarpus santalinus	Wood				--
Ptychopetalum olacoides	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.
Pueraria montana	Leaf Essent. Oil		120.0		--
Pycnanthemum torreyi	Shoot		10000.0	-0.027439288511147023	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pycnanthemum pycnanthemoides</i>	Shoot	39000.0	58000.0	4.415425150659019	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum loomisii</i>	Shoot	31000.0	42000.0	2.9344703376022974	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<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>Pycnanthemum curvipes</i>	Shoot		21000.0	0.9907171454653495	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum beadleii</i>	Shoot		7000.0	-0.30511831595928246	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum virginianum</i>	Shoot	6000.0	29000.0	1.7311945519937106	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<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>Pycnanthemum pilosum</i>	Leaf	39000.0	58000.0	4.087049803217256	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<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>Pycnanthemum muticum</i>	Shoot	29000.0	50000.0	3.6749477441306584	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum clinopodioides</i>	Shoot	21000.0	22000.0	1.0832768212813946	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum verticillatum</i>	Shoot		21000.0	0.9907171454653495	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum montanum</i>	Shoot	7000.0	8000.0	-0.2125586401432373	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum setosum</i>	Shoot	20000.0	31000.0	1.916313903625801	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum pilosum</i>	Flower	39000.0	58000.0	1.5076236691819183	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum flexuosum</i>	Shoot		12000.0	0.15768006312094326	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pycnanthemum californicum</i>	Shoot		36000.0	2.3791122827060267	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Quassia amara</i>	Root				--
<i>Quercus alba</i>	Bark	100.0	500.0	-0.9214178791305214	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Ravensara aromatica</i>	Leaf		20000.0	0.7445770670718886	--
<i>Ravensara aromatica</i>	Bark		22000.0	0.9563531541686453	--
<i>Rheum rhabarbarum</i>	Root				--
<i>Rheum palmatum</i>	Rhizome		500.0	-0.6718362741586275	--
<i>Ribes nigrum</i>	Bulb		7500.0	-0.3719457894724333	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Ribes nigrum</i>	Leaf		200.0	-0.99702714807754	--
<i>Robinia pseudoacacia</i>	Leaf		100.0	-1.005823128962133	--
<i>Rosa canina</i>	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.
<i>Rosa gallica</i>	Flower	270.0	360.0	-0.411337112928303	--
<i>Rosa damascena</i>	Flower	250.0	500.0	-0.406676208877376	--
<i>Rosa centifolia</i>	Flower		2000.0	-0.3567379511888727	--
<i>Rosmarinus officinalis</i>	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 <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
<i>Rosmarinus officinalis</i>	Plant	3300.0	25000.0	1.159827080519081	--
<i>Rosmarinus eriocalyx</i>	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 <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
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.
Rosmarinus officinalis	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 Rosmarinus officinalis L. from Egypt. Flavour and Fragrance J. 9: 29-33.
Rosmarinus officinalis	Tissue Culture				--
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 officinalis	Shoot		5400.0	-0.45321379726495464	Tucker, A. O. and Maciarelo, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986.
Rosmarinus officinalis	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 Rosmarinus officinalis L. from Egypt. Flavour and Fragrance J. 9: 29-33.
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.

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.
Ruscus aculeatus	Root	302.0	3000.0	-0.5134844766142346	--
Ruscus aculeatus	Plant	1000.0	3000.0	-0.5121339088100166	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Ruta graveolens	Leaf	600.0	7000.0	-0.39890044792521095	--
Salvia officinalis	Leaf		20000.0	0.7445770670718886	--
Salvia dorisiana	Shoot		1000.0	-0.8604763708555533	Tucker, A.O. & Maciarelo, M.J. 1994. The Essential Oil of Salvia dorisiana Standley. J. Ess. Oil Res. 6: 97-8.
Salvia triloba	Plant	10000.0	30000.0	1.539818214457512	--
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
Salvia sclarea	Plant	400.0	5000.0	-0.36013745523464397	--
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.
Salvia officinalis	Plant	5000.0	28000.0	1.3878217608821395	--
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.
Santalum acuminatum	Wood		50000.0	0.1710888075673346	--
Santalum album	Wood	15000.0	62500.0	0.5548524460748149	--
Santalum album	Root		100000.0	4.055469440458872	--
Santolina chamaecyparissus	Flower		8600.0	-0.13700961735945802	--
Sarracenia flava	Flower		180.0	-0.4173297038509234	--
Sarracenia flava	Shoot				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Sassafras albidum	Root	10000.0	90000.0	3.5844432634410257	--
Sassafras albidum	Leaf	150.0	330.0	-0.985592372927569	--
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.
Satureja cuneifolia	Shoot		18900.0	0.7963418262516547	Tumen, G. 1991. The Volatile Constituents of Satureja cuneifolia. J. Ess. Oil Res., 3: 365-366.
Satureja obovata	Shoot	10000.0	11000.0	0.06512038730489812	Fitoterapia No.60: 277.
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 hortensis	Plant	1500.0	20000.0	0.7798359465806497	--
Satureja douglasii	Plant		13000.0	0.24784835906684596	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Satureja thymbra	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.
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.
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.
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
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 vulgaris	Plant		500.0	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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.
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.
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
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.
Satureja montana	Plant	1500.0	23000.0	1.0078306269437083	--
Satureja glabella	Plant	10000.0	10600.0	0.06545261477639898	--
Saussurea lappa	Root	15000.0	70000.0	2.642390909405334	--
Schinus molle	Leaf	2000.0	10000.0	-0.13502102138741875	--
Schinus molle	Fruit	33500.0	52000.0	0.1907626977235922	--
Schinus terebinthifolius	Seed	250000.0	450000.0	5.138359449760251	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Schinus molle	Flower		21000.0	0.2758133128655028	--
Schisandra chinensis	Bark				--
Schisandra chinensis	Leaf				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Schisandra chinensis	Branches				--
Schizonepeta tenuifolia	Plant		18000.0	0.6278394930052772	--
Scutellaria churchilliana	Plant		300.0	-0.7173291211367695	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Scutellaria parvula	Plant		900.0	-0.6717301850641577	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Scutellaria galericulata	Plant		600.0	-0.6945296531004636	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Scutellaria lateriflora	Plant	411.0	3000.0	-0.5121339088100166	--
Senna occidentalis	Seed	175.0	182.0	-0.5481993752892449	--
Serenoa repens	Fruit	5400.0	20000.0	-0.4312216686487416	--
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.
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.
Sideritis mugronensis	Flower	3200.0	4400.0	-0.27683673888726734	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of Sideritis mugronensis Flower and Leaf. J. Ess. Oil Res., 3: 395-397.
Sideritis scardica	Shoot		4350.0	-0.5504014568718021	Menkovic, N., et al. 1991. The Essential Oil of Sideritis scardica. Pl. Med. 57. Suppl. 2. pp. A137-A132.
Sideritis germanicolpitana	Plant		3300.0	-0.4893344407737106	J. Essential Oil, 4: 533.
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.
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
Simarouba amara	Bark	1000.0	1800.0	-0.8078782352566183	--
Sinapis alba	Seed	1000.0	2000.0	-0.5252163822922106	--
Skimmia arborescens	Leaf	5000.0	24000.0	1.0964163024556115	--
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.
Solanum tuberosum	Plant		2.0	-0.7399765927195	--
Stachys germanica	Plant		800.0	-0.6793300077429263	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Stachytarpheta cayennensis	Plant	350.0	700.0	-0.686929830421695	--
Stellaria media	Plant	83.0	2000.0	-0.5881321355977028	--
Stevia rebaudiana	Leaf	250.0	4300.0	-0.6363919318092239	--
Stevia rebaudiana	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.
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.
Synedrella nodiflora	Leaf		4000.0	-0.6627798744630032	Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Synedrella nodiflora	Flower		43000.0	1.008241092296885	Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
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.
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.
Syzygium aromaticum	Flower	155000.0	210000.0	6.568033781616922	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Syzygium aromaticum	Leaf	20000.0	32000.0	1.8000947732230574	--
Syzygium aromaticum	Fruit	150000.0	210000.0	3.261810506686991	--
Tagetes erecta	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.
Tagetes minuta	Shoot Essent. Oil				--
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.
Tagetes filifolia	Shoot		4700.0	-0.5180055703361862	--
Tagetes minuta	Plant	1870.0	5000.0	-0.36013745523464397	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
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.
Tanacetum vulgare	Plant	4000.0	5000.0	-0.36013745523464397	--
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.
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.
Taraxacum officinale	Root	715.0	5000.0	-0.41927924121066534	--
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.
Teucrium montanum	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Teucrium gnaphalodes	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.
Teucrium scorodonia	Shoot		2900.0	-0.6846129868050675	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
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 polium	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.
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.
Teucrium micropodioides	Leaf		4000.0	-0.6627798744630032	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.
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 Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Teucrium polium	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Teucrium arduini</i>	Shoot		700.0	-0.8882442736003668	Blazevic, N., Kalodera, Z., Petricic, J., and Plazibat, M. 1992. Essential Oil Content and Composition of <i>Teucrium arduini</i> L. J. Ess. Oil Res. 4: 223-225.
<i>Teucrium scorodonia</i>	Shoot		2900.0	-0.6846129868050675	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Teucrium chamaedrys</i>	Plant		700.0	-0.686929830421695	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Teucrium pseudoscorodonia</i>	Shoot		100.0	-0.943780079089994	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.
<i>Teucrium kotschyianum</i>	Leaf		9000.0	-0.2229808302333495	Arnold, N., Bellomaria, B., Velentini G. and Razaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. J. Ethnopharm. 35: 105-113.
<i>Teucrium cyprium</i>	Leaf		13000.0	0.12885840515037347	Arnold, N., Bellomaria, B., Velentini G. and Razaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. J. Ethnopharm. 35: 105-113.
<i>Teucrium oxylepis</i>	Shoot		100.0	-0.943780079089994	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.
<i>Teucrium arduini</i>	Shoot		700.0	-0.8882442736003668	Blazevic, N., Kalodera, Z., Petricic, J., and Plazibat, M. 1992. Essential Oil Content and Composition of <i>Teucrium arduini</i> L. J. Ess. Oil Res. 4: 223-225.
<i>Theobroma cacao</i>	Plant		10.0	-0.7393686069051985	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Thuja occidentalis</i>	Branches	6000.0	10000.0	-0.15743991762596632	--
<i>Thymus orospedanus</i>	Plant		17500.0	0.5898403796114341	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus zygis	Shoot		8000.0	-0.2125586401432373	Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. Thymus zygis Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. JEO5: 153-8.
Thymus x citriodorus	Plant		10000.0	0.019853678703787233	--
Thymus longicaulis	Shoot		8000.0	-0.2125586401432373	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
Thymus vulgaris	Leaf	1344.0	26000.0	1.272335920147473	--
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. & Fragr. J. 8: 331-7.
Thymus vulgaris	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.
Thymus riatarum	Shoot		12000.0	0.15768006312094326	Iglesias, J., Vila, R., Canigueral, S., Bellakdhar, and Il Idrissi, A. 1991. Analysis of the Essential Oil of Thymus riatarum. J. Ess. Oil Res. 3: 43-4.
Thymus zygis	Shoot		8000.0	-0.2125586401432373	Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. Thymus zygis Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. JEO5: 153-8.
Thymus funkii	Shoot		8000.0	-0.2125586401432373	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.
Thymus longicaulis	Shoot		17000.0	0.620478442201169	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus serpyllum	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.
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.
Thymus funkii	Shoot		8000.0	-0.2125586401432373	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.
Thymus zygis	Plant		10000.0	0.019853678703787233	--
Thymus longicaulis	Shoot		8000.0	-0.2125586401432373	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
Trachyspermum ammi	Fruit	20000.0	60000.0	0.34625878931667564	--
Trachyspermum ammi	Plant		15200.0	0.4150444579997557	--
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.
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
Trigonella foenum-graecum	Seed		100.0	-0.5492360119370758	--
Tropaeolum majus	Shoot		300.0	-0.9252681439267849	--
Tsuga canadensis	Branches	4000.0	4600.0	-1.1384117120646782	--
Turnera diffusa	Leaf	2100.0	10000.0	-0.13502102138741875	--
Umbellularia californica	Stem	5600.0	11300.0	0.08784963799398882	--
Umbellularia californica	Essential Oil		46900.0	0.26351246183876637	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Valeriana officinalis	Leaf	2300.0	28000.0	1.4482555378393345	--
Valeriana officinalis	Root Essent. Oil		5000.0		--
Valeriana officinalis	Root	590.0	20000.0	0.2872600243161038	--
Valeriana jatamansi	Root	5000.0	30000.0	0.7582862013339499	--
Vanilla planifolia	Fruit		6000.0	-0.7033398289366377	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Verbena officinalis	Plant				--
Vetiveria zizanioides	Root		15000.0	0.05174693580718084	--
Viburnum prunifolium	Bark	2800.0	3300.0	-0.6768709538636533	--
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.
Viola odorata	Essential Oil	900.0	1200.0	-1.3350520743601195	--
Viola tricolor	Plant		86.0	-0.7335927416693343	--
Viola odorata	Root		380.0	-0.6368933349929101	--
Viola odorata	Flower	300.0	1700.0	-0.36672560272657334	--
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.
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.
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Xylopi 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.
Xylopi 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.
Yucca baccata	Root	208.0	2000.0	-0.5605870943160192	--
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.
Zanthoxylum alatum	Fruit	15000.0	23000.0	-0.37291063430133536	--
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.
Zea mays	Silk Stigma Style	800.0	1200.0	-1.0	--
Zingiber officinale	Resin, Exudate, Sap		60000.0	-1.007598115442729	--
Zingiber officinale	Or	800.0	50000.0		--
Zingiber officinale	Root	700.0	30000.0	0.7582862013339499	--
Zingiber officinale	Rhizome		10000.0	-0.5317116167359565	--