



Chemid

EO

ubiquitous

Yes

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

Plant	Part	Low PPM	High PPM	StdDev	Reference
Abelmoschus moschatus	Seed	2000	6000	-0.47464874093459924	--
Abies alba	Leaf	2500	3500	-0.7067597788859685	--
Abies balsamea	Leaf	6500	14000	0.21681821399630422	--
Abies sachalinensis	Branches	16000	18000	1.2958516296906437	--
Abies spectabilis	Leaf	--	5000	-0.5748200656170724	--
Acacia farnesiana	Flower	5000	50000	1.241286294843234	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Acanthospermum hispidum	Plant	2000	2000	-0.5881321355977028	Wealth of India.
Achillea millefolium	Flower	700	5000	-0.256861435811866	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
Achillea millefolium	Leaf	250	14000	0.3927378316881657	--
Achillea millefolium	Plant	177	14000	0.3238465858545322	--
Achillea moschata	Plant	3000	6000	-0.2841392284469577	--
Acinos alpinus	Shoot	500	500	-0.9067562087635759	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Acinos alpinus	Shoot	--	500	-0.9067562087635759	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
Acinos suaveolens	Shoot	6400	6400	-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.
Acorus calamus	Rhizome	10000	50000	0.7957851377946111	--
Acorus calamus	Leaf	--	2000	-0.8386994921548646	--
Acorus calamus	Shoot	--	1200	-0.8419644356923442	--
Actaea racemosa	Plant	1000	4000	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Aegle marmelos	Leaf	6000	6000	-0.4868602567711417	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Aeolanthus myriantha	Flower	20200	20200	0.24917957543163438	Wealth of India.
Aethusa cynapium	Plant	150	150	-0.7287288551549224	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Aframomum melegueta	Seed	3000	80000	0.4608526241812091	--
Agastache foeniculum	Plant	1000	12500	0.20984924567300284	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Agastache nepetoides	Plant	500	500	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Agastache pallidiflora	Flower	1550	3160	-0.31811903190976343	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Agastache pallidiflora	Leaf	830	830	-0.9416124685046037	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Agastache urticifolia	Plant	6500	6500	-0.24614011505311462	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Agathosma betulina	Leaf	10000	35000	2.0639741997608496	--
Ageratum conyzoides	Plant	200	1600	-0.6185314263127774	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Agrimonia eupatoria	Plant	--	2000	-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.
Alliaria petiolata	Plant	50	520	-0.7006095112434785	--
Alliaria petiolata	Root	330	930	-0.6109868952569286	--
Alliaria petiolata	Seed	5000	9600	-0.42913786371274915	--
Allium cepa	Bulb	50	150	-1.2862606900150364	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Allium sativum var. sativum	Bulb	600	3600	1.158132207353964	--
Allium sativum var. sativum	Root	370	4000	-0.46638185891244993	--
Aloysia citrodora	Plant	700	7000	-0.2081410016592715	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Alpinia galanga	Rhizome	400	48000	0.028787012954727756	--
Alpinia galanga	Leaf	--	10000	-0.13502102138741875	--
Alpinia officinarum	Rhizome	3000	10000	-0.5317116167359565	--
Althaea officinalis	Root	54	2000	-0.5605870943160192	--
Althaea officinalis	Flower	--	200	-0.41666386041507664	Wealth of India.
Althaea officinalis	Leaf	--	200	-0.99702714807754	Wealth of India.
Ammi visnaga	Seed	200	300	-0.5467076298691953	--
Amomum compactum	Seed	--	24000	-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.
Amomum xanthioides	Seed	15000	30000	-0.17124289278893168	--
Anaphalis margaritacea	Plant	--	--		--
Anethum graveolens	Fruit	12000	77000	0.6766879839519779	--
Anethum graveolens	Plant	5600	15000	0.39984481264221844	--
Anethum graveolens	Root	300	500	-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	Leaf	1640	15000	0.30477802284223493	--
Anethum graveolens	Seed	12000	77000	0.4229268931630007	--
Anethum graveolens	Shoot	--	--		--
Angelica archangelica	Root	1000	10000	0.24015740661431922	--
Angelica archangelica	Seed	2000	15000	-0.07010761007370915	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Angelica sinensis	Root	880	7000	-0.3250740058070961	--
Angelica sinensis	Shoot	--	--		Jim Duke's personal files.
Angelica sinensis	Tissue Culture	--	--		Jim Duke's personal files.
Anisochilus carnosus	Leaf	11900	11900	0.032102615419849656	Wealth of India.
Anisomeles malabarica	Flower	700	700	-0.4000177745189089	Wealth of India.
Anisomeles malabarica	Leaf	250	250	-0.9926291576352435	Wealth of India.
Anisomeles malabarica	Root	50	50	-0.6524371988344991	Wealth of India.
Anisomeles malabarica	Stem	50	50	-0.4930811055371642	Wealth of India.
Anthriscus cerefolium	Plant	300	300	-0.7173291211367695	--
Anthriscus cerefolium	Seed	9000	9000	-0.4367230099163908	--
Apium graveolens	Seed	4200	30000	-0.17124289278893168	--
Apium graveolens	Fruit	42000	200000	3.067440392195637	--
Apocynum androsaemifolium	Root	160	160	-0.6472559108873028	--
Aralia cordata	Stem	750	750	-0.45693430371744803	--
Arctium lappa	Leaf	285	285	-0.9895505643256359	Wealth of India.
Arctium lappa	Root	600	7500	-0.3015226969562038	Wealth of India.
Ardisia japonica	Plant	1000	2000	-0.5881321355977028	--
Aristolochia serpentaria	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Armoracia rusticana	Plant	200	3050	-0.5083339974706322	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Armoracia rusticana	Root	500	2160	-0.5530506754837335	--
Arnica montana	Flower	400	1400	-0.376713254264274	--
Arnica montana	Rhizome	5000	63100	0.25151146843707856	--
Arnica montana	Root	17700	37400	1.1068455723271557	--
Artemisia abrotanum	Plant	1800	21000	0.8558341733683359	--
Artemisia absinthium	Leaf	2500	17000	0.4806976405340964	--
Artemisia annua	Leaf	1400	23500	2.5037732439905036	--
Artemisia capillaris	Plant	1000	2300	-0.565332667561397	--
Artemisia cina	Bud	20000	30000	-0.12512224941797112	--
Artemisia dracunculus	Plant	1000	10000	0.019853678703787233	--
Artemisia dracunculus	Shoot	1000	10000	-0.027439288511147023	--
Artemisia dracunculus	Leaf	--	--		--
Artemisia herba-alba	Plant	2900	2900	-0.5197337314887852	--
Artemisia pallens	Plant	1300	5800	-0.299338873804495	--
Artemisia salsoloides	Shoot	5000	5000	-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	2000	-0.5881321355977028	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Artemisia vulgaris	Root	1000	1000	-0.6076897120178038	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Asarum canadense	Rhizome	35000	45000	-0.015462878862957838	--
Asiasarum sieboldii	Root	20000	30000	0.7582862013339499	--
Astragalus gummifer	Gum	20000	30000	-1.002453444080079	--
Atractylodes lancea	Rhizome	50000	90000	0.6482854984023259	--
Azadirachta indica	Stem Bark	200	200	-1	--
Ballota nigra	Plant	300	300	-0.7173291211367695	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Barosma betulina	Leaf	15000	35000	2.0639741997608496	--
Betula lenta	Bud	40000	60000	1.2825030565342015	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Betula lenta	Bark	2300	6000	-0.44105784735631587	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Bixa orellana	Seed	755	844	-0.5398304306445602	--
Bixa orellana	Leaf	--	4000	-0.6627798744630032	Wealth of India.
Boronia megastigma	Flower	4000	8000	-0.15698492043485934	--
Boswellia sacra	Latex Exudate	30000	100000		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Boswellia serrata	Resin, Exudate, Sap	--	160000	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Brassica juncea	Seed	4500	30900	-0.15986517348346915	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Brassica nigra	Seed	7000	12000	-0.39879727889818234	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Brassica oleracea	Stem	190	190	-0.485851745173221	--
Bursera delpechiana	Wood	25000	120000	2.3201651832092245	--
Calamintha nepeta	Leaf	8000	8000	-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	Shoot	4500	4500	-0.5365175054993953	Kirimer, N., Baser, K.H.C., Ozek, T. and Kurkcuoglo, M. 1992. Composition of the Essential Oil of Calamintha nepeta subsp. glandulosa. J. Ess. Oil Res. 4:189-190
Calamintha nepeta	Plant	6000	6000	-0.2841392284469577	J. Ethnopharmacology, 39: 167.
Calendula officinalis	Flower	200	4000	-0.29015360760420156	--
Camellia sinensis	Leaf	30	10000	-0.13502102138741875	--
Cananga odorata	Flower	5000	25000	0.40898200003484503	--
Canarium indicum	Gum	100000	250000	-0.26732091842135447	--
Cannabis sativa	Bud	1300	8000	-1.157380807116231	--
Capsicum annum	Fruit	1290	5000	-0.7227768403857732	--
Capsicum frutescens	Fruit	16000	16000	-0.5089697144452834	--
Carica papaya	Seed	900	900	-0.5391224836655536	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
Carum carvi	Fruit	30000	70000	0.54062890380803	--
Carum carvi	Plant	10000	10000	0.019853678703787233	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Carum carvi	Seed	20000	82000	0.4861364448600147	--
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 deodora	Wood	25000	25000	-0.5964384694476258	--
Cedrus libani	Wood	35000	60000	0.4780997183733189	--
Centella asiatica	Plant	3000	6000	-0.2841392284469577	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Centella asiatica	Leaf	321	6000	-0.4868602567711417	--
Chamaemelum nobile	Plant	6000	17500	0.5898403796114341	--
Chelidonium majus	Plant	130	130	-0.7302488196906761	--
Chenopodium ambrosioides	Fruit	1830	25000	-0.33403661140306445	--
Chenopodium ambrosioides	Leaf	2000	3000	-0.7507396833089339	--
Chrysanthemum balsamita	Plant	600	600	-0.6945296531004636	--
Chrysanthemum parthenium	Plant	200	700	-0.686929830421695	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Chrysanthemum parthenium	Shoot	--	1500	-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.
Chrysanthemum x morifolium	Flower	--	1400	-0.376713254264274	Wealth of India.
Chrysanthemum x morifolium	Shoot	400	1500	-0.8141965329475307	Wealth of India.
Cimicifuga racemosa	Plant	1000	4000	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Cimicifuga racemosa	Root	210	4000	-0.46638185891244993	--
Cinchona pubescens	Bark	--	50	-0.960720063548411	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Cinchona spp	Bark	--	50	-0.960720063548411	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Cinnamomum aromaticum	Bark	2000	25000	1.2183677169545755	--
Cinnamomum aromaticum	Leaf	3100	7700	-0.33732858173305946	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Cinnamomum camphora	Leaf	5000	10000	-0.13502102138741875	--
Cinnamomum verum	Bark	3500	40000	2.5284405308842266	--
Cinnamomum verum	Leaf	5000	12000	0.04089859630444273	--
Cinnamomum verum	Stem Bark	--	--		--
Cinnamomum verum	Root Bark	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cissampelos pareira	Root	2000	2000	-0.5605870943160192	--
Cistus ladaniferus	Essential Oil	1000	70000	1.071539612521354	--
Citrus aurantiifolia	Plant	3000	10000	0.019853678703787233	--
Citrus aurantiifolia	Pt	--	3100	-1	--
Citrus aurantium	Flower	1000	5000	-0.256861435811866	--
Citrus aurantium	Fruit	7000	25000	-0.33403661140306445	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Citrus aurantium	Leaf	--	3000	-0.7507396833089339	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Citrus limon	Pt	2000	6000	1	--
Citrus limon	Pericarp	--	2600	-1.1594356213080714	--
Citrus mitis	Leaf	9000	10600	-0.08224513607986031	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Citrus paradisi	Fruit	6000	10000	-0.625591783140096	--
Citrus paradisi	Leaf	6000	10000	-0.8562914539240508	--
Citrus paradisi	Pericarp	3700	10000	-0.12155373449197493	--
Citrus reticulata	Fruit	7500	10000	-0.625591783140096	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Citrus sinensis	Fruit	7500	10000	-0.625591783140096	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Citrus sinensis	Pericarp	15000	20000	1.2809893558000476	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cleonia lusitanica	Leaf	500	500	-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	3000	-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	20000	-0.38421197734367113	--
Coffea arabica	Seed	1000	2000	-0.5252163822922106	--
Collinsonia canadensis	Plant	500	500	-0.7021294757792322	--
Commiphora myrrha	Resin, Exudate, Sap	15000	170000	0.28683450001654326	--
Conium maculatum	Plant	10000	10000	0.019853678703787233	--
Conyza canadensis	Plant	2600	6000	-0.2841392284469577	--
Copaifera spp	Gum	300000	900000	1.9046615437521506	--
Coriandrum sativum	Fruit	2000	26000	-0.31459959995392905	--
Coriandrum sativum	Leaf	10000	10000	-0.13502102138741875	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Coriandrum sativum	Seed	--	--		--
Coriandrum sativum	Seed Essent. Oil	100	14900	-1	--
Coriaria myrtifolia	Leaf	--	--		--
Coridothymus capitatus	Shoot	22000	22000	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Crataegus laevigata	Fruit	279	2500	-0.7713693690086117	--
Crocus sativus	Silk Stigma Style	3700	13700	1	--
Croton eluteria	Bark	15000	30000	1.655058654931126	--
Cuminum cyminum	Fruit	20000	50000	0.1518886748253213	--
Cuminum cyminum	Seed	20000	50000	0.08159531399912463	--
Cunila origanoides	Shoot	--	28000	1.6386348761776655	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Curcuma longa	Rhizome	3000	72000	0.38278614749621226	--
Curcuma longa	Leaf	--	4100	-0.6539838935784101	--
Curcuma longa	Plant	15500	80000	5.339729553841824	--
Curcuma xanthorrhiza	Rhizome	30000	295000	3.672028105944175	--
Curcuma zedoaria	Rhizome	10000	15000	-0.45796179703981377	--
Cymbopogon citratus	Plant	2000	4000	1.539818214457512	--
Cymbopogon flexuosus	Leaf	2500	5000	-0.5748200656170724	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Cymbopogon martinii	Flower	4500	13700	0.032780458781453296	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cymbopogon martinii	Plant	1000	5000	-0.36013745523464397	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cymbopogon nardus	Plant	3000	12000	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 parkeri	Plant	15500	15500	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 winterianus	Plant	4000	7000	-0.2081410016592715	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Cyperus rotundus	Root	5000	10000	-0.18376615270174232	--
Cypripedium pubescens	Root	--	--	--	--
Datura stramonium	Leaf	450	450	-0.9750371958660573	--
Daucus carota	Root	4000	4000	-0.46638185891244993	--
Daucus carota	Seed	4000	8000	-0.4493649202557936	--
Daucus carota	Shoot	4000	4000	-0.5827973434074178	--
Dianthus caryophyllus	Flower	30	2900	-0.3267749965757707	--
Dictamnus albus	Flower	500	500	-0.406676208877376	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Dictamnus albus	Leaf	1500	1500	-0.88267939657783	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Dictamnus albus	Shoot	7200	7200	-0.2866063807960734	Baser, K.H.C., Kosar, M.Malyer, H. & Ozek, T. 1994. The Essential Oil Composition of Dictamnus albus from Turkey. Planta Med. 60:481-2
Dictamnus albus	Shoot	--	5500	-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	Shoot	--	7200	-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 parviflora	Plant	1000	1000	-0.6641303623853891	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Dracocephalum thymiflora	Plant	2000	2000	-0.5881321355977028	--
Drimys winteri	Bark	10000	10000	-0.09170509697507558	--
Dryopteris filix-mas	Rhizome	80	400	-0.6733112705525504	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Echinacea angustifolia	Root	400	13000	-0.04245829959638836	--
Echinacea pallida	Root	2000	23000	0.42856787742145763	--
Echinacea pallida	Shoot	500	1000	-0.8604763708555533	Jim Duke's personal files.
Echinacea pallida	Flower	--	2800	-0.3301042137550042	Jim Duke's personal files.
Echinacea purpurea	Root	628	2500	-0.5370357854651269	--
Echinacea purpurea	Shoot	900	3200	-0.656845084060254	Jim Duke's personal files.
Echinacea purpurea	Flower	1300	4800	-0.2635198701703331	Jim Duke's personal files.
Echinacea spp	Flower	600	6000	-0.22356926401953045	Economic & Medicinal Plant Research, 5: 253.
Echinacea spp	Leaf	100	6000	-0.4868602567711417	Economic & Medicinal Plant Research, 5: 253.
Echinacea spp	Root	50	40000	1.2293123783517959	--
Elaeagnus angustifolia	Flower	--	1000	-0.3900301229812082	--
Elaeagnus angustifolia	Shoot	--	--		Isaev, V. 1932. Essential Oils of the Flora of Tadshikistan. Acta Hortii Bot Tadshikistan 1932: 17-.
Elettaria cardamomum	Fruit	25000	100000	1.1237392472820933	--
Elettaria cardamomum	Seed Essent. Oil	--	64500	1	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eleutherococcus senticosus	Fruit	5000	5000	-0.7227768403857732	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Eleutherococcus senticosus	Leaf	3100	3100	-0.7419437024243408	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Eleutherococcus senticosus	Root	8000	8000	-0.2779713881053115	--
Eleutherococcus senticosus	Stem	2600	2600	-0.36140347033676956	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Elsholtzia blanda	Shoot	1300	1300	-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 ciliata	Plant	1000	2500	-0.5501330222038597	Chemical Constituents of Oriental Herbs (3 diff. books)
Elsholtzia cristata	Shoot	4000	4000	-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 eriostachya	Shoot	1000	1000	-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 patrini	Plant	1000	2500	-0.5501330222038597	Chemical Constituents of Oriental Herbs (3 diff. books)
Elsholtzia pilosa	Shoot	2000	2000	-0.7679166950395081	--
Elsholtzia polystachya	Leaf	2000	2000	-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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Elsholtzia polystachya	Leaf	--	2000	-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.
Elytrigia repens	Rhizome	100	520	-0.6715412748798429	--
Ephedra sinica	Plant	1000	4000	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Eryngium foetidum	Plant	200	400	-0.7097292984580008	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Erythroxyllum coca	Leaf	200	1300	-0.9002713583470162	--
Eucalyptus albens	Shoot	--	1800	-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.
Eucalyptus angulosa	Leaf	--	2600	-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 astringens	Shoot	--	17300	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 behriana	Leaf	5400	5400	-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
Eucalyptus blakelyi	Shoot	--	20500	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus bosistoana	Shoot	--	14700	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 botryoides	Shoot	--	3200	-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 brassiana	Leaf	--	6800	-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 bridgesiana	Leaf	--	27000	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 camaldulensis	Shoot	--	7200	-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.
Eucalyptus ceratocorys	Leaf	--	12300	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
Eucalyptus citriodora	Leaf	5000	20000	0.7445770670718886	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Eucalyptus citriodora	Shoot	--	10500	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 citriodora	Plant	--	--	--	--
Eucalyptus cladocalyx	Shoot	--	2400	-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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus cuprea	Leaf	12700	12700	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 dealbata	Shoot	--	6700	-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 desquamata	Leaf	30900	30900	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
Eucalyptus diversicolor	Shoot	--	12000	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 dolichorhyncha	Leaf	--	12500	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 erythrandra	Leaf	--	14300	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 fasciculosa	Leaf	2600	2600	-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

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus forrestiana	Leaf	--	33200	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 globulus	Leaf	5000	35000	2.0639741997608496	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Eucalyptus globulus	Shoot	--	21200	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 incrassata	Leaf	--	28400	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 intertexta	Leaf	11000	11000	-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 lansdowneana	Leaf	4800	4800	-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 largisparsa	Leaf	9200	9200	-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 leucoxydon	Leaf	11000	11000	-0.04706121254148801	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Eucalyptus maculata</i>	Shoot	--	10400	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. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus maideni</i>	Shoot	--	14300	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. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus melanophloia</i>	Leaf	1600	1600	-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 <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus melliodora</i>	Shoot	--	16800	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. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus moluccana</i>	Shoot	--	12000	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. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus nova-anglica</i>	Leaf	14000	24000	1.0964163024556115	Brophy, J. L., Lassak, E. V., & Boland, D. J. 1992. The Leaf Essential Oils of <i>Eucalyptus nova-anglica</i> . Deane & Maiden. <i>Journal of Essential Oil Res.</i> 4: 29-32.
<i>Eucalyptus occidentalis</i>	Shoot	--	6600	-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. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus ochrophloia</i>	Leaf	900	900	-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 <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus odorata	Leaf	8800	8800	-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 oviformis	Shoot	--	6900	-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 paniculata	Shoot	--	1000	-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 polyanthemos	Shoot	--	2900	-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 populnea	Leaf	3600	3600	-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 porosa	Leaf	21200	21200	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 punctata	Shoot	--	15700	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 saligna	Shoot	--	3900	-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
<i>Eucalyptus siderophloia</i>	Shoot	--	2800	-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. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus sideroxylon</i>	Shoot	--	5500	-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. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus sparsa</i>	Leaf	50400	50400	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 <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus stoatei</i>	Leaf	--	26000	1.272335920147473	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part I. Subgenus <i>Symphyomyrtus</i> , Section <i>Dumaria</i> , Series <i>Incrassatae</i> . <i>Flavour and Fragrance J.</i> 9(3):113-7
<i>Eucalyptus tereticornis</i>	Shoot	--	4500	-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. <i>Journal of Essential Oil Res.</i> 4: 259-264.
<i>Eucalyptus tetraptera</i>	Leaf	--	20400	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 <i>Eucalyptus</i> . Part I. Subgenus <i>Symphyomyrtus</i> , Section <i>Dumaria</i> , Series <i>Incrassatae</i> . <i>Flavour and Fragrance J.</i> 9(3):113-7
<i>Eucalyptus viridis</i>	Leaf	1000	1000	-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 <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eugenia brasiliensis</i>	Bark	15000	15000	0.3449858410014748	Morton, J.F., <i>Major Medicinal Plants</i> . 1977. <i>Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan</i> . 1981.
<i>Eugenia brasiliensis</i>	Leaf	15000	15000	0.30477802284223493	Morton, J.F., <i>Major Medicinal Plants</i> . 1977. <i>Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan</i> . 1981.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Euodia rutaecarpa	Fruit	20000	20000	-0.4312216686487416	--
Eupatorium triplinerve	Plant	6000	6000	-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	1700	-0.5881321355977028	--
Ferula alliacea	Fruit	9000	9000	-0.6450287945892313	--
Ferula assa-foetida	Gum	30000	170000	-0.5346418368427087	--
Ferula gummosa	Gum	50000	300000	-0.10024534440800792	--
Ferula jaeschkeana	Fruit	38000	38000	-0.08135546256430386	--
Ferula jaeschkeana	Root	12000	12000	-0.08956091729817296	--
Ferula sumbul	Plant	10000	10000	0.019853678703787233	--
Ficus carica	Leaf	--	700	-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	Fruit	10000	80000	0.7349990182993845	--
Foeniculum vulgare	Plant	10000	10000	0.019853678703787233	--
Foeniculum vulgare	Seed	2160	60000	0.2080144173931528	--
Foeniculum vulgare	Tissue Culture	--	--		Jim Duke's personal files.
Foeniculum vulgare	Root	5000	7000	-0.3250740058070961	--
Fragaria spp	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Galeopsis tetrahit	Shoot	400	400	-0.9160121763451804	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Galipea officinalis	Bark	10000	20000	0.7816767789780251	--
Gardenia jasminoides	Flower	700	700	-0.4000177745189089	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Gaultheria fragrantissima	Shoot	1200	12000	0.15768006312094326	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Gaultheria procumbens	Leaf	5500	8000	-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	5000	-0.41927924121066534	--
Genista tinctoria	Shoot	300	300	-0.9252681439267849	--
Ginkgo biloba	Wood	50000	50000	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	600	-0.6945296531004636	--
Glycyrrhiza glabra	Root	400	590	-0.6270017852755354	--
Glycyrrhiza uralensis	Root	--	50	-0.6524371988344991	Isaev, V. 1932. Essential Oils of the Flora of Tadshikistan. Acta Hortii Bot Tadshikistan 1932: 17-.
Grindelia squarrosa	Plant	3000	3000	-0.5121339088100166	--
Guaiacum sp.	Wood	50000	60000	0.4780997183733189	--
Hamamelis virginiana	Leaf	5000	5000	-0.5748200656170724	--
Hedeoma drummondii	Plant	10000	10000	0.019853678703787233	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hedeoma hispida	Plant	2000	2000	-0.5881321355977028	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hedeoma pulegioides	Plant	6000	30000	1.539818214457512	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Hedeoma pulegioides	Shoot	6000	10000	-0.027439288511147023	--
Hedeoma reverchonii	Plant	10000	10000	0.019853678703787233	--
Hedychium flavum	Shoot	--	10000	-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	2000	-0.5881321355977028	--
Hemidesmus indicus	Root	1600	2250	-0.548811439890573	--
Houttuynia cordata	Plant	--	5000	-0.36013745523464397	--
Houttuynia cordata	Shoot	--	--		--
Humulus lupulus	Flower	2000	10000	-0.09040057685018825	--
Humulus lupulus	Fruit	3000	10000	-0.625591783140096	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Humulus lupulus	Seed	10000	30000	-0.17124289278893168	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Hyacinthus orientalis	Flower	160	2300	-0.346750299651172	--
Hydrangea arborescens	Root	--	--		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
Hyssopus officinalis	Shoot	--	10000	-0.027439288511147023	--
Hyssopus officinalis	Shoot	--	10000	-0.027439288511147023	--
Hyssopus officinalis	Shoot	14000	14000	0.34279941475303355	Tsankova, E.T., Konatchiev, A.N. and Genova, E.M. 1993. Chemical Composition of the Essential Oils of Two Hyssopus officinalis cultivars. J. Ess. Oil Res. 5: 609-611.
Hyssopus officinalis	Shoot	--	14000	0.34279941475303355	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.
Ilex paraguariensis	Leaf	3000	3000	-0.7507396833089339	--
Illicium verum	Fruit	50000	100000	1.1237392472820933	--
Illicium verum	Leaf	10000	10000	-0.13502102138741875	--
Illicium verum	Seed	25000	25000	-0.23445244448594577	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Inula helenium	Fruit	10000	40000	-0.042481439666032995	--
Inula helenium	Plant	5700	54000	3.3637756573619817	--
Iris x germanica	Rhizome	1000	20000	-0.38421197734367113	--
Isanthus brachiatus	Plant	1000	1000	-0.6641303623853891	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Jasminum officinale	Flower	2400	3800	-0.2968120419626687	--
Jateorhiza palmata	Root	700	15000	0.05174693580718084	--
Juglans regia	Leaf	100	300	-0.9882311671929469	--
Juniperus communis	Fruit	6200	40000	-0.042481439666032995	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Juniperus communis	Leaf	--	--		--
Juniperus macropoda	Fruit	6600	20400	-0.42344686406908744	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Juniperus oxycedrus	Fruit	13000	15000	-0.5284067258944188	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Juniperus oxycedrus	Leaf	100	100	-1.005823128962133	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Juniperus oxycedrus	Wood	15000	15000	-0.90344938025361	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Juniperus sabina	Shoot	30000	50000	3.6749477441306584	--
Juniperus virginiana	Leaf	2000	2000	-0.8386994921548646	--
Juniperus virginiana	Wood	15000	45000	0.01758335216434249	--
Lagochilus inebrians	Plant	300	2000	-0.5881321355977028	--
Lantana camara	Flower	700	700	-0.4000177745189089	--
Lantana camara	Leaf	500	3200	-0.7331477215397478	--
Lantana camara	Shoot	--	1000	-0.8604763708555533	--
Larrea tridentata	Plant	329	2500	-0.5501330222038597	--
Laurus nobilis	Fruit	10000	40000	-0.042481439666032995	--
Laurus nobilis	Leaf	--	5700	-0.513248199424921	--
Laurus nobilis	Flower	--	1800	-0.3633963855473398	--
Laurus nobilis	Bark	--	6800	-0.37118729728006783	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Laurus nobilis	Wood	--	700	-1.3424749827061675	--
Lavandula angustifolia	Flower	3000	40000	0.9083645769198783	--
Lavandula latifolia	Plant	5000	11000	0.09585190549147347	--
Lavandula x hybrida	Shoot	5500	7000	-0.30511831595928246	Tucker, A.O., Maciarello, M.J., Angell, S., Espaillat, J.R., and French, E.C. 1993. The Essential Oil of Lavandula x hybrida Balb. ex Ging., a Distinct Hybrid from L. x heterophylla Poir. (Labiatae). J. Ess. Oil Res. 5: 443-445.
Lavandula x intermedia	Plant	10000	18000	0.6278394930052772	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lawsonia inermis	Flower	100	200	-0.41666386041507664	--
Ledum palustre	Leaf	3000	25000	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
Leonotis nepetaefolia	Seed	20000	20000	-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	500	-0.7021294757792322	--
Lepechinia calycina	Plant	5000	5000	-0.36013745523464397	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lepechinia schiediana	Plant	4000	4000	-0.4361356820223302	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lepidium sativum	Plant	1150	1150	-0.6527306283672362	--
Levisticum officinale	Plant	500	2450	-0.553932933543244	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Levisticum officinale	Root	1000	18000	0.19305478891253464	--
Levisticum officinale	Seed	8000	11000	-0.41143918923758516	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Limonia acidissima	Leaf	7300	7300	-0.37251250527143176	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Lindera benzoin	Fruit	4140	4260	-0.7371602288581334	--
Lindera benzoin	Leaf	--	200	-0.99702714807754	--
Lindera benzoin	Twig	--	700	-0.9967582876073293	--
Lippia alba	Leaf	1200	1200	-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	10000	-1.5959765770151253	--
Liquidambar styraciflua	Leaf	800	800	-0.9442512627699815	--
Liquidambar styraciflua	Resin, Exudate, Sap	150000	200000	0.6398615769599811	--
Litsea glaucescens	Shoot	2100	2300	-0.7401487922946945	Tucker, et al, EB46(1):21-24.1992
Lycium chinense	Leaf	--	100	-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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lycopus americanus	Plant	500	500	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lycopus europeus	Plant	500	2000	-0.5881321355977028	--
Lycopus uniflorus	Plant	500	500	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lycopus virginicus	Plant	800	2000	-0.5881321355977028	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Magnolia officinalis	Bark	3000	10000	-0.09170509697507558	--
Malus domestica	Fruit	25	35	-0.8192816022307305	--
Mangifera indica	Flower	400	400	-0.41000542605660956	--
Marrubium vulgare	Plant	500	600	-0.6945296531004636	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Marsdenia reichenbachii	Plant	100	100	-0.7325287664943066	--
Matricaria recutita	Flower	2400	20000	0.24252114107316727	--
Melaleuca alternifolia	Leaf	10000	25000	1.1843761113015423	--
Melaleuca alternifolia	Leaf Essent. Oil	--	--		--
Melaleuca bracteata	Leaf	4000	10000	-0.13502102138741875	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Melaleuca cajuputi	Leaf	10000	10000	-0.13502102138741875	--
Melaleuca leucadendra	Leaf	13000	13000	0.12885840515037347	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
Melaleuca leucadendra	Twig	13000	13000	1.6526478577346808	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Melaleuca linariifolia	Leaf	15000	20000	0.7445770670718886	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Melaleuca viridiflora	Leaf	10000	26000	1.272335920147473	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Melia azedarach	Plant	200	200	-0.7249289438155381	--
Melilotus officinalis	Flower	130	130	-0.41899431244054014	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Melissa officinalis	Shoot	100	2500	-0.2125586401432373	--
Mentha aquatica	Leaf	3000	8500	-0.26696073465631487	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Mentha aquatica	Shoot	1100	1100	-0.8512204032739488	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Shoot	--	1500	-0.8141965329475307	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Shoot	--	1700	-0.7956845977843217	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Shoot	--	1600	-0.8049405653659262	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Mentha aquatica	Shoot	--	1100	-0.8512204032739488	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha arvensis var. piperascens	Plant	10000	32100	1.699414490711653	--
Mentha arvensis var. piperascens	Plant	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha longifolia	Plant	10000	38000	2.147804028759002	--
Mentha pulegium	Plant	10000	20000	0.7798359465806497	--
Mentha pulegium	Shoot	3500	20000	0.8981574696493044	--
Mentha pulegium	Leaf	--	9200	-0.20538886846416335	--
Mentha pulegium	Tissue Culture	--	--		--
Mentha spicata	Leaf	1000	25000	1.1843761113015423	--
Mentha x piperita	Plant	1000	10000	2.2998004823343745	--
Mentha x piperita	Leaf	2980	30000	1.624175155531196	--
Mentha x rotundifolia	Leaf	600	10000	-0.13502102138741875	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Menyanthes trifoliata	Leaf	670	700	-0.9530472436545746	--
Mercurialis annua	Root	800	800	-0.6171102355581607	--
Micromeria congesta	Leaf	10000	10000	-0.13502102138741875	--
Micromeria croatica	Leaf	10000	10000	-0.13502102138741875	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Micromeria dalmatica	Leaf	10000	10000	-0.13502102138741875	--
Micromeria fruticosa	Leaf	30000	30000	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 fruticosa	Shoot	24000	24000	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 fruticosa	Shoot	--	24000	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 juliana	Leaf	10000	10000	-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 myrtifolia	Shoot	300	300	-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. J. Ess. Oil Res., 4: 79-80.
Micromeria teneriffae	Leaf	10000	10000	-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 thymifolia	Leaf	10000	10000	-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 varia	Shoot	3000	3000	-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.
Micromeria varia	Shoot	--	3000	-0.675357019223463	--
Minthostachys mollis	Shoot	700	900	-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	400	-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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Moldavica parviflora	Plant	1000	1000	-0.6641303623853891	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Moldavica thymiflora	Plant	2000	2000	-0.5881321355977028	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda citriodora	Flower	10000	10000	-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 citriodora	Leaf	7000	7000	-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 citriodora	Shoot	10000	10000	-0.027439288511147023	--
Monarda clinopodia	Plant	10000	10000	0.019853678703787233	--
Monarda didyma	Flower	3700	3700	-0.3001412591419022	Flavour and Fragrance Journal, 6: 80.
Monarda didyma	Leaf	7000	13000	0.12885840515037347	--
Monarda didyma	Shoot	1000	10000	-0.027439288511147023	--
Monarda fistulosa	Plant	3000	31000	1.6158164412451983	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Monarda lindheimeri	Plant	10000	10000	0.019853678703787233	--
Monarda media	Plant	7000	7000	-0.2081410016592715	--
Monarda punctata	Plant	10000	30000	1.539818214457512	--
Monarda russeliana	Plant	10000	10000	0.019853678703787233	--
Murraya koenigii	Leaf	2300	26000	1.272335920147473	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Myrica cerifera	Plant	2000	4000	-0.4361356820223302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Myrica cerifera	Bark	436	4000	-0.6157342225469362	--
Myristica fragrans	Aril	40000	150000		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Myristica fragrans	Bark	1400	1400	-0.8428135102947424	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Myristica fragrans	Leaf	4100	6200	-0.46926829500195555	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Myristica fragrans	Seed	20000	160000	1.4722054513334344	--
Myroxylon balsamum	Gum	--	--		--
Myrtus communis	Plant	1667	5900	-0.29173905112572635	--
Myrtus communis	Leaf	1000	5000	-0.5748200656170724	--
Narcissus tazetta	Flower	2100	4500	-0.2735075217080338	--
Nardostachys chinensis	Rhizome	10000	32000	-0.20721241007292873	--
Nardostachys jatamansi	Root	19000	20000	0.2872600243161038	--
Nasturtium officinale	Plant	600	660	-0.6899697594932024	--
Nepeta cataria	Plant	2000	13000	0.24784835906684596	Bourrel, C., Perineau, F., Michel, G., Bessiere, J.M. 1993. Catnip (Nepeta cataria L.) Essential Oil: Analysis of Chemical Constituents, Bacteriostatic and Fungistatic Properties. J. Ess. Oil Res., 5: 159-167.
Nepeta cilicia	Shoot	--	1000	-0.8604763708555533	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Nepeta racemosa	Shoot	11000	11000	0.06512038730489812	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.
Nepeta racemosa	Shoot	--	11000	0.06512038730489812	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.
Nerium oleander	Flower	300	300	-0.4133346432358431	--
Nigella sativa	Seed	4000	16000	-0.3482296375405711	--
Nigella sativa	Seed Oil	--	4500		--
Ocimum basilicum	Plant	2500	2500	-0.5501330222038597	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
Ocimum basilicum	Plant	--	2500	-0.5501330222038597	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
Ocimum basilicum	Shoot	--	--		--
Ocimum canum	Shoot	3800	6500	-0.351398153867305	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ocimum gratissimum	Flower	13400	16700	0.13265697415845995	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	Leaf	12000	14700	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 gratissimum	Plant	1000	6000	-0.2841392284469577	--
Ocimum gratissimum	Seed	2700	2700	-0.5163670450546286	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum gratissimum	Shoot	21000	21000	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ocimum gratissimum	Stem	1400	1400	-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 killimandscharicum	Flower	19600	28000	0.5088585154118517	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum killimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.
Ocimum killimandscharicum	Leaf	7700	11200	-0.029469250772301864	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum killimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.
Ocimum killimandscharicum	Shoot	5000	10000	-0.027439288511147023	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum killimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.
Ocimum sanctum	Leaf	6000	7000	-0.39890044792521095	--
Ocimum suave	Shoot	4000	4000	-0.5827973434074178	J. Nat. Prod. 44: 308.
Ocimum tenuiflorum	Leaf	1000	9000	-0.2229808302333495	--
Oenanthe aquatica	Fruit	10000	25000	-0.33403661140306445	--
Ononis spinosa	Root	200	2000	-0.5605870943160192	--
Opopanax chironium	Resin, Exudate, Sap	30000	65000	-0.9487602692854892	--
Origanum creticum	Plant	14000	30000	1.539818214457512	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Origanum majorana	Plant	3000	17200	1.539818214457512	--
Origanum majorana	Essential Oil	--	--	--	--
Origanum minutiflorum	Shoot	22400	24400	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 onites	Shoot	33000	33000	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 onites	Shoot	--	25000	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 sipyleum	Shoot	17000	17000	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 sipyleum	Shoot	--	2200	-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.
Origanum sipyleum	Shoot	--	17000	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 sipyleum	Shoot	--	16800	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 syriacum	Shoot	31000	31000	1.916313903625801	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum syriacum	Shoot	--	31000	1.916313903625801	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum syriacum	Shoot	--	31000	1.916313903625801	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum vulgare	Plant	400	400	-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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Origanum vulgare	Shoot	45000	45000	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 vulgare	Plant	34000	34000	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 vulgare	Plant	1300	1300	-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 vulgare	Plant	800	800	-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 vulgare	Plant	1500	10000	0.019853678703787233	--
Origanum vulgare	Shoot	--	4800	-0.5087496027545817	Isaev, V. 1932. Essential Oils of the Flora of Tadshikistan. Acta Hortii Bot Tadshikistan 1932: 17-.
Paeonia lactiflora	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Paeonia officinalis	Root	4000	4000	-0.46638185891244993	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Paeonia suffruticosa	Root Bark	1500	4000		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Panax ginseng	Root	100	500	-0.631241020868696	--
Panax quinquefolius	Root	--	--		--
Passiflora edulis	Fruit Juice	23	43		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
Pavonia odorata	Root	5000	5000	-0.41927924121066534	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Pelargonium citrosum	Shoot	--	2000	-0.7679166950395081	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 graveolens	Plant	800	4000	-0.4361356820223302	--
Pelargonium roseum	Shoot	--	18000	0.7130381180172141	--
Perilla frutescens	Plant	1000	13000	0.24784835906684596	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Perilla frutescens	Leaf	--	10400	-0.09983709784904646	Janicki, J., Tobolewicz, I. 1953. Perilla ocymoides-A Raw material for the Production of Natural Oils. Przem Rolny Spozyw, 7: 56-.
Perilla frutescens	Stem	--	500	-0.46984387579591813	Janicki, J., Tobolewicz, I. 1953. Perilla ocymoides-A Raw material for the Production of Natural Oils. Przem Rolny Spozyw, 7: 56-.
Persea americana	Leaf	5000	31000	1.7121349643771269	--
Petasites hybridus	Leaf	--	1000	-0.9266593010007954	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Petroselinum crispum	Plant	40	3000	-0.5121339088100166	--
Petroselinum crispum	Root	500	1000	-0.41927924121066534	--
Petroselinum crispum	Seed	15000	70000	0.33443352078718097	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Petroselinum crispum	Leaf	600	3000	-0.7507396833089339	--
Petroselinum crispum	Fruit	--	600	-0.8082996907619691	--
Peucedanum ostruthium	Root	2000	14000	0.004644318105396236	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Peumus boldus	Leaf	16000	25000	1.624175155531196	--
Phellodendron amurense	Fruit	--	--		--
Picea glauca	Twig	3000	3000	-0.5013408783157338	--
Picea mariana	Twig	4610	4610	-0.15454869181161726	--
Pilocarpus jaborandi	Leaf	5000	5000	-0.5748200656170724	--
Pilocarpus microphyllus	Leaf	2500	3000	-0.7507396833089339	--
Pimenta dioica	Fruit	20000	50000	0.1518886748253213	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Pimenta dioica	Leaf	7500	12500	0.0848785007274081	--
Pimenta racemosa	Leaf	7500	34000	2.415813435144573	--
Pimpinella anisum	Plant	10000	60000	3.819765018088099	--
Pimpinella anisum	Tissue Culture	--	--		--
Pimpinella anisum	Seed	6100	32000	1.219367244545378	--
Pinellia ternata	Tuber	30	130		--
Pinus elliottii	Leaf	3000	3000	-0.7507396833089339	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Pinus elliottii	Resin, Exudate, Sap	200000	250000	1.2282400385323775	--
Pinus mugo	Leaf	1200	6100	-0.47806427588654865	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pinus palustris	Leaf	4000	4000	-0.6627798744630032	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Pinus palustris	Resin, Exudate, Sap	200000	250000	1.2282400385323775	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Pinus strobus	Root	--	--		--
Pinus sylvestris	Leaf	2000	5000	-0.5748200656170724	--
Pinus sylvestris	Root	--	--		--
Pinus walliciana	Leaf	5000	5000	-0.5748200656170724	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Piper angustifolium	Leaf	9000	35000	2.0639741997608496	--
Piper auritum	Leaf	4700	5800	-0.5044522185403278	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Piper betel	Leaf	2000	42000	2.6796928616823648	--
Piper cubeba	Fruit	50000	20000	3.067440392195637	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Piper cubeba	Fruit Essent. Oil	118500	118500		--
Piper nigrum	Fruit	--	15000	-0.5284067258944188	--
Pistacia lentiscus	Leaf	10000	30000	1.624175155531196	--
Plantago major	Plant	2000	2000	-0.5881321355977028	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Plectranthus coleoides	Shoot	6000	6000	-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	3500	-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.
Podophyllum hexandrum	Rhizome	2590	5550	-0.5973489562655234	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Pogostemon cablin	Plant	15000	58000	3.6677685645127265	--
Polianthes tuberosa	Flower	800	15000	0.07606028211148952	--
Populus nigra	Bulb	5000	5000	-0.6829372522420262	--
Populus tacamahacca	Bulb	20000	20000	1.1830115243755313	--
Porophyllum ruderale	Plant	3000	4500	-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	5000	-0.36013745523464397	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Prunus armeniaca	Seed	8000	16000	-0.3482296375405711	--
Prunus cerasus	Seed	10000	10000	-0.424081099576988	--
Prunus dulcis	Seed	5000	18000	-0.3229458168617655	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Prunus laurocerasus	Leaf	500	500	-0.9706392054237608	--
Prunus serotina	Stem Bark	--	2000	1	--
Psidium guajava	Leaf	2600	3600	-0.6979637980013755	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Psoralea corylifolia	Seed	500	200000	1.977881864909547	--
Pteridium aquilinum	Rhizome	1800	1800	-0.6526613210376304	--
Pterocarpus santalinus	Wood	--	--		--
Ptychopetalum olacoides	Wood	500	500	-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		--
Pycnanthemum beadleii	Shoot	7000	7000	-0.30511831595928246	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum californicum	Shoot	36000	36000	2.3791122827060267	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum clinopodioides	Shoot	21000	22000	1.0832768212813946	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum curvipes	Shoot	21000	21000	0.9907171454653495	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum flexuosum	Shoot	12000	12000	0.15768006312094326	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum incanum	Shoot	11000	19000	0.8055977938332592	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum loomisii	Shoot	31000	42000	2.9344703376022974	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum montanum	Shoot	7000	8000	-0.2125586401432373	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pycnanthemum muticum	Shoot	29000	50000	3.6749477441306584	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum nudum	Shoot	25000	26000	1.4535155245455753	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum pilosum	Flower	39000	58000	1.5076236691819183	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum pilosum	Leaf	39000	58000	4.087049803217256	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum pycnanthemoides	Shoot	39000	58000	4.415425150659019	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum setosum	Shoot	20000	31000	1.916313903625801	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum tenuifolium	Shoot	2000	20000	0.8981574696493044	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum torreyi	Shoot	10000	10000	-0.027439288511147023	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum verticillatum	Shoot	21000	21000	0.9907171454653495	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum virginianum	Shoot	6000	29000	1.7311945519937106	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Quassia amara	Root	--	--		--
Quercus alba	Bark	100	500	-0.9214178791305214	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Ravensara aromatica	Bark	--	22000	0.9563531541686453	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ravensara aromatica	Leaf	--	20000	0.7445770670718886	--
Rheum palmatum	Rhizome	--	500	-0.6718362741586275	--
Rheum rhabarbarum	Root	--	--		--
Ribes nigrum	Bulb	7500	7500	-0.3719457894724333	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ribes nigrum	Leaf	200	200	-0.99702714807754	--
Robinia pseudoacacia	Leaf	100	100	-1.005823128962133	--
Rosa canina	Seed	2000	3000	-0.5125744719528077	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosa centifolia	Flower	2000	2000	-0.3567379511888727	--
Rosa damascena	Flower	250	500	-0.406676208877376	--
Rosa gallica	Flower	270	360	-0.411337112928303	--
Rosmarinus eriocalyx	Shoot	5500	8700	-0.1477668670720057	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus eriocalyx	Shoot	5500	8700	-0.1477668670720057	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus officinalis	Leaf	1400	1400	-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	Leaf	--	1400	-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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rosmarinus officinalis	Plant	3300	25000	1.159827080519081	--
Rosmarinus officinalis	Shoot	--	5400	-0.45321379726495464	Tucker, A. O. and Maciarello, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986.
Rosmarinus officinalis	Shoot	6200	12600	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	Shoot	6200	12600	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	Tissue Culture	--	--		--
Rosmarinus tomentosus	Shoot	8000	9900	-0.03669525609275154	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus x lavandulaceus	Shoot	3200	9900	-0.03669525609275154	Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246.
Rosmarinus x mendizabalii	Shoot	3900	5500	-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	Plant	1000	3000	-0.5121339088100166	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Ruscus aculeatus	Root	302	3000	-0.5134844766142346	--
Ruta graveolens	Leaf	600	7000	-0.39890044792521095	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Salvia canariensis	Leaf	7000	7000	-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, Barcelone Spain
Salvia dorisiana	Shoot	1000	1000	-0.8604763708555533	Tucker, A.O. & Maciarelo, M.J. 1994. The Essential Oil of Salvia dorisiana Standley. J. Ess. Oil Res. 6: 97-8.
Salvia gilliesii	Shoot	5000	5000	-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	28000	1.3878217608821395	--
Salvia officinalis	Leaf	--	20000	0.7445770670718886	--
Salvia sclarea	Plant	400	5000	-0.36013745523464397	--
Salvia triloba	Plant	10000	30000	1.539818214457512	--
Sambucus nigra	Flower	37	3200	-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	0.1710888075673346	--
Santalum album	Root	100000	100000	4.055469440458872	--
Santalum album	Wood	15000	62500	0.5548524460748149	--
Santolina chamaecyparissus	Flower	8600	8600	-0.13700961735945802	--
Sarracenia flava	Shoot	--	--		--
Sarracenia flava	Flower	--	180	-0.4173297038509234	--
Sassafras albidum	Root	10000	20000	3.5844432634410257	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Sassafras albidum	Leaf	150	330	-0.985592372927569	--
Satureja cilicica	Shoot	8000	8000	-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 cuneifolia	Shoot	18900	18900	0.7963418262516547	Tumen, G. 1991. The Volatile Constituents of Satureja cuneifolia. J. Ess. Oil Res., 3: 365-366.
Satureja douglasii	Plant	13000	13000	0.24784835906684596	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Satureja glabella	Plant	10000	10600	0.06545261477639898	--
Satureja grandiflora	Shoot	3900	3900	-0.5920533109890224	Carnat, A., Chossegras, A., and Lamaison, J. 1991. The Essential Oil of Satureja grandiflora (L.) Scheele from France. J. Ess. Oil Res., 3: 361-362
Satureja hortensis	Leaf	4000	4000	-0.6627798744630032	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Satureja hortensis	Plant	1500	20000	0.7798359465806497	--
Satureja montana	Plant	1500	23000	1.0078306269437083	--
Satureja obovata	Leaf	22600	22600	0.9732725700713085	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja obovata	Leaf	--	22600	0.9732725700713085	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja obovata	Leaf	--	24100	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Satureja obovata	Leaf	--	9800	-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.
Satureja obovata	Shoot	10000	11000	0.06512038730489812	Fitoterapia No.60: 277.
Satureja odora	Shoot	5000	5000	-0.4902376675913727	Zygodlo, 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 parvifolia	Shoot	5000	5000	-0.4902376675913727	Zygodlo, 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 subspicata	Plant	1000	1000	-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 thymbra	Shoot	37000	37000	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 vulgaris	Plant	500	500	-0.7021294757792322	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Saussurea lappa	Root	15000	70000	2.642390909405334	--
Schinus molle	Flower	21000	21000	0.2758133128655028	--
Schinus molle	Fruit	33500	52000	0.1907626977235922	--
Schinus molle	Leaf	2000	10000	-0.13502102138741875	--
Schinus terebinthifolius	Seed	250000	450000	5.138359449760251	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Schisandra chinensis	Bark	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Schisandra chinensis	Branches	--	--		--
Schisandra chinensis	Leaf	--	--		--
Schisandra chinensis	Fruit	10000	30000	-0.23685155415738732	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Schizonepeta tenuifolia	Plant	18000	18000	0.6278394930052772	--
Scutellaria churchilliana	Plant	300	300	-0.7173291211367695	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Scutellaria galericulata	Plant	600	600	-0.6945296531004636	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Scutellaria lateriflora	Plant	411	3000	-0.5121339088100166	--
Scutellaria parvula	Plant	900	900	-0.6717301850641577	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Senna occidentalis	Seed	175	182	-0.5481993752892449	--
Serenoa repens	Fruit	5400	20000	-0.4312216686487416	--
Sideritis athoa	Shoot	2500	2500	-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 germanicolpitana	Plant	3300	3300	-0.4893344407737106	J. Essential Oil, 4: 533.
Sideritis mugronensis	Flower	3200	4400	-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 mugronensis	Leaf	1100	1600	-0.8738834156932369	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of Sideritis mugronensis Flower and Leaf. J. Ess. Oil Res., 3: 395-397.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Sideritis pauli	Shoot	3200	3200	-0.656845084060254	Burzaco, A., Velasco-Negueruela, A. and Perez-Alonso, M.J. 1992. Essential Oil Analysis of Sideritis pauli Pau. FFJ7: 47-8. 1992.
Sideritis scardica	Shoot	4350	4350	-0.5504014568718021	Menkovic, N., et al. 1991. The Essential Oil of Sideritis scardica. Pl. Med. 57. Suppl. 2. pp. A137-A132.
Silybum marianum	Seed	1000	1000	-0.5378582926316133	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Simarouba amara	Bark	1000	1800	-0.8078782352566183	--
Sinapis alba	Seed	1000	2000	-0.5252163822922106	--
Skimmia arborescens	Leaf	5000	24000	1.0964163024556115	--
Smilax spp	Root	--	300	-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	2	-0.7399765927195	--
Stachys germanica	Plant	800	800	-0.6793300077429263	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Stachytarpheta cayennensis	Plant	350	700	-0.686929830421695	--
Stellaria media	Plant	83	2000	-0.5881321355977028	--
Stevia rebaudiana	Flower	--	4300	-0.2801659560665009	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
Stevia rebaudiana	Leaf	250	4300	-0.6363919318092239	--
Stillingia sylvatica	Plant	30000	40000	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Synedrella nodiflora	Flower	43000	43000	1.008241092296885	Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Synedrella nodiflora	Leaf	4000	4000	-0.6627798744630032	Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Syringa vulgaris	Flower	2400	3600	-0.3034704763211358	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Syzygium aromaticum	Flower	155000	210000	6.568033781616922	--
Syzygium aromaticum	Fruit	150000	210000	3.261810506686991	--
Syzygium aromaticum	Leaf	20000	32000	1.8000947732230574	--
Syzygium aromaticum	Stem	40000	60000	2.6026342788799575	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Tagetes erecta	Plant	1000	1000	-0.6641303623853891	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Tagetes filifolia	Shoot	--	4700	-0.5180055703361862	--
Tagetes lucida	Shoot	--	6000	-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.
Tagetes minuta	Plant	1870	5000	-0.36013745523464397	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Tagetes minuta	Shoot Essent. Oil	--	--		--
Tagetes patula	Plant	1500	1500	-0.6261312489915459	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
Tanacetum parthenium	Shoot	--	1500	-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.
Tanacetum parthenium	Plant	200	700	-0.686929830421695	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Tanacetum vulgare	Plant	4000	5000	-0.36013745523464397	--
Taraxacum officinale	Root	715	5000	-0.41927924121066534	--
Teucrium arduini	Shoot	700	700	-0.8882442736003668	Blazevic, N., Kalodera, Z., Petricic, J., and Plazibat, M. 1992. Essential Oil Content and Composition of Teucrium arduini L. J. Ess. Oil Res. 4: 223-225.
Teucrium arduini	Shoot	--	700	-0.8882442736003668	Blazevic, N., Kalodera, Z., Petricic, J., and Plazibat, M. 1992. Essential Oil Content and Composition of Teucrium arduini L. J. Ess. Oil Res. 4: 223-225.
Teucrium asiaticum	Shoot	100	100	-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 chamaedrys	Plant	700	700	-0.686929830421695	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Teucrium cyprium	Leaf	13000	13000	0.12885840515037347	Arnold, N., Bellomaria, B., Velentini G. and Rifaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Teucrium divaricatum	Leaf	3000	3000	-0.7507396833089339	Arnold, N., Bellomaria, B., Velentini G. and Rifaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Teucrium gnaphalodes	Shoot	500	500	-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
Teucrium kotschyanum	Leaf	9000	9000	-0.2229808302333495	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Teucrium micropodioides	Leaf	4000	4000	-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 montanum	Plant	1000	1000	-0.6641303623853891	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Teucrium oxylepis	Shoot	100	100	-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	100	-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	900	-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 polium	Shoot	500	500	-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 pseudoscorodonia	Shoot	100	100	-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 salviastrum	Shoot	100	100	-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 scordium	Plant	1500	1500	-0.6261312489915459	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 scorodonia	Shoot	2900	2900	-0.6846129868050675	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Teucrium scorodonia	Shoot	--	2900	-0.6846129868050675	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Theobroma cacao	Plant	10	10	-0.7393686069051985	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Thuja occidentalis	Branches	6000	10000	-0.15743991762596632	--
Thymus capitatus	Shoot	7100	7100	-0.29586234837767794	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Frag. J. 8: 331-7.
Thymus cilicicus	Shoot	14600	14600	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	8000	-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 funkii	Shoot	--	8000	-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	8000	8000	-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 longicaulis	Shoot	--	17000	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.
Thymus longicaulis	Shoot	--	8000	-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 orospedanus	Plant	17500	17500	0.5898403796114341	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus riatarum	Shoot	12000	12000	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 serpyllum	Plant	1500	19100	0.7114375424717321	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Thymus vulgaris	Plant	4000	34000	1.843811121608257	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Thymus vulgaris	Leaf	1344	26000	1.272335920147473	--
Thymus x citriodorus	Plant	10000	10000	0.019853678703787233	--
Thymus zygis	Plant	10000	10000	0.019853678703787233	--
Thymus zygis	Shoot	8000	8000	-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 zygis	Shoot	--	8000	-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.
Trachyspermum ammi	Fruit	20000	60000	0.34625878931667564	--
Trachyspermum ammi	Plant	15200	15200	0.4150444579997557	--
Trichostemma dichotomum	Shoot	800	800	-0.8789883060187623	Tucker, A.O. and Maciarelllo, M.J. 1990. The Essential Oil of Trichostemma dichotomum. J. Ess. Oil Res. 2: 149-150.
Trifolium pratense	Flower	--	1700	-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.Agrc.Food Chem.44:1827-8
Trigonella foenum-graecum	Seed	--	100	-0.5492360119370758	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Tropaeolum majus	Shoot	300	300	-0.9252681439267849	--
Tsuga canadensis	Branches	4000	4600	-1.1384117120646782	--
Turnera diffusa	Leaf	2100	10000	-0.13502102138741875	--
Umbellularia californica	Essential Oil	46900	46900	0.26351246183876637	--
Umbellularia californica	Stem	5600	11300	0.08784963799398882	--
Valeriana jatamansi	Root	5000	30000	0.7582862013339499	--
Valeriana officinalis	Root	590	20000	0.2872600243161038	--
Valeriana officinalis	Root Essent. Oil	--	5000		--
Valeriana officinalis	Leaf	2300	28000	1.4482555378393345	--
Vanilla planifolia	Fruit	6000	6000	-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	0.05174693580718084	--
Viburnum opulus	Bark	1000	3000	-0.7030724101422462	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Viburnum prunifolium	Bark	2800	3300	-0.6768709538636533	--
Viola odorata	Essential Oil	900	1200	-1.3350520743601195	--
Viola odorata	Flower	300	1700	-0.36672560272657334	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Viola odorata	Root	380	380	-0.6368933349929101	--
Viola tricolor	Plant	86	86	-0.7335927416693343	--
Vitex agnus-castus	Fruit	4000	12000	-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.
Vitex agnus-castus	Leaf	--	230	-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	7600	-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.
Xylopiya aethiopica	Seed	--	13000	-0.3861553685587796	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Xylopiya aethiopica	Fruit	--	20000	-0.4312216686487416	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Yucca baccata	Root	208	2000	-0.5605870943160192	--
Zanthoxylum alatum	Fruit	15000	23000	-0.37291063430133536	--
Zanthoxylum alatum	Leaf	400	400	-0.9794351863083538	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Zanthoxylum clava-herculis	Plant	--	33000	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.
Zea mays	Silk Stigma Style	800	1200	-1	--
Zingiber officinale	Or	800	50000		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zingiber officinale	Resin, Exudate, Sap	60000	60000	-1.007598115442729	--
Zingiber officinale	Rhizome	--	10000	-0.5317116167359565	--
Zingiber officinale	Root	700	30000	0.7582862013339499	--