

Dr. Duke's Phytochemical and Ethnobotanical Database

List of Plants for CARYOPHYLLENE

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Achillea millefolium</i>	Leaf	4	160	-0.5782062507598946	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Agastache foeniculum</i>	Plant	8	100	-0.4439011295451728	--
<i>Agastache nepetoides</i>	Plant	90	100	-0.4439011295451728	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Agastache nepetoides</i>	Essential Oil	184000	184000	2.6881581812844435	Jim Duke's personal files.
<i>Agastache rugosa</i>	Essential Oil	--	--		Jim Duke's personal files.
<i>Aloysia citrodora</i>	Plant	30	266	-0.22395459569098666	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Amomum compactum</i>	Seed	--	--		Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.
<i>Angelica archangelica</i>	Root	8	20	-0.6816330830044597	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Angelica archangelica</i>	Root Essent. Oil	--	--		--
<i>Apium graveolens</i>	Seed Essent. Oil	--	1700		--
<i>Arctium lappa</i>	Root	--	--		Jim Duke's personal files.
<i>Artemisia pallens</i>	Plant	--	--		--
<i>Avena sativa</i>	Seed	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Ballota nigra</i>	Plant	35	35	-0.5300247723194024	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Boswellia sacra</i>	Essential Oil	--	--		--
<i>Calendula officinalis</i>	Flower	--	--		--
<i>Cananga odorata</i>	Flower	--	--		--
<i>Capsicum annuum</i>	Fruit	--	--		--
<i>Capsicum frutescens</i>	Fruit	--	--		--
<i>Carica papaya</i>	Fruit	--	--		--
<i>Carthamus tinctorius</i>	Flower	43	50	-0.7466837902953343	--
<i>Carthamus tinctorius</i>	Leaf	27	28	-0.6518220503422282	--
<i>Cinnamomum camphora</i>	Leaf	--	--		--
<i>Cinnamomum verum</i>	Bark	135	1316		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Cinnamomum verum</i>	Root Bark	--	--		--
<i>Cinnamomum verum</i>	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Citrus aurantiifolia</i>	Fruit	30	250	-0.3885919789508993	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Citrus aurantium</i>	Plant	--	--		--
<i>Citrus limon</i>	Essential Oil	11	28	-0.7680967243064245	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Citrus limon	Leaf Essent. Oil	--	--		Jim Duke's personal files.
Citrus paradisi	Fruit	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Citrus reticulata	Fruit	2	9	-0.395772877445224	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus sinensis	Pericarp	--	--		--
Citrus sinensis	Pericarp Essent. Oil	--	--		Jim Duke's personal files.
Collinsonia canadensis	Tuber	--	--		--
Collinsonia canadensis	Plant	2	6	-0.5684491667879048	--
Copaifera spp	Gum	151800	480600		--
Coriandrum sativum	Fruit	1	8	-0.39580267370453653	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Coriandrum sativum	Essential Oil	--	--		--
Cuminum cyminum	Fruit	144	320	-0.38650624079902074	--
Cuminum cyminum	Seed	144	320	-1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cunila origanoides	Shoot	--	140	-0.3931486540744339	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Curcuma longa	Essential Oil	--	13400	-0.5168789270461833	--
Curcuma longa	Tuber	--	--		--
Curcuma longa	Rhizome	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Cymbopogon citratus</i>	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Cymbopogon nardus</i>	Plant	96	384	-0.06760705957777	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Cymbopogon winterianus</i>	Plant	84	147	-0.38162711092380686	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Cynara cardunculus</i>	Essential Oil	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Daucus carota</i>	Root	200	200	-0.39328066246203247	--
<i>Daucus carota</i>	Seed	134	1000	1	--
<i>Dracocephalum parviflora</i>	Plant	50	50	-0.5101500855253494	--
<i>Dracocephalum thymiflora</i>	Plant	250	250	-0.24515426160464315	--
<i>Drimys winteri</i>	Bark	--	--		--
<i>Echinacea angustifolia</i>	Shoot	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Echinacea pallida</i>	Shoot	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Echinacea purpurea</i>	Shoot	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Echinacea spp</i>	Root	42	42	-0.6463900093826075	Economic & Medicinal Plant Research, 5: 253.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Elettaria cardamomum	Fruit Essent. Oil	--	--		--
Elsholtzia cristata	Shoot	38	38	-0.4425453830634053	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. <i>Planta Medica</i> 1987: 268-271.
Elsholtzia pilosa	Shoot	12	12	-0.45513670613902546	--
Elsholtzia polystachya	Leaf	38	38	-0.646245095828415	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. <i>Planta Medica</i> 58: 376-379.
Elsholtzia polystachya	Leaf	--	38	-0.646245095828415	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. <i>Planta Medica</i> 58: 376-379.
Eucalyptus citriodora	Leaf	15	780	-0.23243507090347945	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Eucalyptus citriodora	Leaf Essent. Oil	--	28000	-0.887674564369413	--
Eucalyptus globulus	Leaf Essent. Oil	--	167000	1.3972655179888909	--
Ficus carica	Leaf Essent. Oil	--	--		--
Ficus carica	Leaf	--	--		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.
Galeopsis tetrahit	Shoot	40	40	-0.44157681974989604	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Gossypium sp	Essential Oil	--	75100	0.6422698981824196	--
Hedeoma hispida	Plant	474	474	0.05164106118654781	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hedeoma pulegioides	Plant	30	150	-0.37765217356499625	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hibiscus sabdariffa	Calyx	--	--		--
Houttuynia cordata	Essential Oil	--	--		--
Humulus lupulus	Plant	--	--		--
Hypericum perforatum	Essential Oil	--	--		--
Hypericum perforatum	Plant	26	468	0.04369118646892662	--
Hyptis spicata	Essential Oil	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Illicium verum	Fruit	85	3600	-0.28877451025385453	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Isanthus brachiatus	Plant	30	30	-0.53664966791742	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Juniperus communis	Fruit	12	120	-0.39246549266153086	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lantana camara	Leaf	400	1600	0.22487519922919882	--
Laurus nobilis	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Lavandula angustifolia</i>	Flower	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lavandula latifolia</i>	Plant	0	191	-0.3233280296612515	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lavandula x intermedia</i>	Plant	147	440	0.006591771120027748	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Leonurus cardiaca</i>	Plant	40	200	-0.3114032175848197	--
<i>Lepechinia calycina</i>	Plant	285	285	-0.19877999241851957	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lepechinia schiediana</i>	Plant	200	200	-0.3114032175848197	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lippia javanica</i>	Essential Oil	--	--		--
<i>Lycopus europeus</i>	Plant	125	125	-0.4107766515550845	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Lycopus virginicus</i>	Plant	30	80	-0.4704007119372434	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Melaleuca alternifolia</i>	Leaf	0.001	154	-0.5815524234681825	--
<i>Mentha aquatica</i>	Leaf	--	--		Jim Duke's personal files.
<i>Mentha arvensis</i> var. <i>piperascens</i>	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Mentha longifolia</i>	Shoot	110	9995	4.379447073242362	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Mentha pulegium</i>	Plant	10	60	-0.49690029432931404	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Mentha pulegium	Essential Oil	--	1000	-0.7498359032671668	--
Mentha spicata	Leaf	3	1950	0.42006860721265904	--
Mentha spicata	Essential Oil	--	12000	-0.5431805211356492	--
Micromeria croatica	Leaf	300	300	-0.5001288875665106	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.
Moldavica parviflora	Plant	50	50	-0.5101500855253494	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Moldavica thymiflora	Plant	250	250	-0.24515426160464315	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Murraya koenigii	Leaf	--	6840	3.1471993644672898	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Myristica fragrans	Essential Oil	--	--		--
Myroxylon balsamum	Plant	--	--		--
Myrtus communis	Plant	3	4	-0.5710991250271118	--
Nepeta cataria	Plant	40	3200	3.663534141225774	--
Ocimum basilicum	Plant	18	3196	3.6582342247473596	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Ocimum canum	Shoot	130	270	-0.33019203869633307	--
Ocimum gratissimum	Plant	5	125	-0.4107766515550845	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ocimum gratissimum	Shoot	1155	1155	0.09839722753150715	Vostrowsky, O., Garbe, W., Bestmann, H.J. and Maia, J.G.S. 1990. Essential Oil of Alfavaca, <i>Ocimum gratissimum</i> , from Brazilian Amazon. <i>Zeitschr. Naturforschung</i> 45(C): 1073-6.
Origanum majorana	Plant	52	1307	1.1553486678162894	--
Origanum majorana	Essential Oil	--	61000	0.37737527199565624	--
Origanum onites	Plant	82	82	-0.46775075369803637	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Origanum onites	Shoot	430	430	-0.2527069736155936	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. & Frag. J.</i> 8: 331-7.
Origanum vulgare	Plant	1	920	0.6425817485297227	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Panax ginseng	Root Essent. Oil	--	--		--
Panax ginseng	Plant	--	--		Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
Panax quinquefolius	Plant	--	--		--
Panax quinquefolius	Root Essent. Oil	--	8670	-1	--
Pelargonium graveolens	Essential Oil	--	--		--
Peperomia pelucida	Leaf	--	--		Tramil
Phytolacca americana	Fruit	--	--		--
Pilocarpus microphyllus	Leaf	450	475	-0.4025321835747805	--
Pimenta dioica	Leaf	760	760	-0.24358897993110573	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pimenta dioica	Fruit	--	1341	-0.3560842600409065	--
Pimenta racemosa	Leaf	90	305	-0.497340410309604	--
Pinus sylvestris	Leaf	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Pinus sylvestris	Leaf Essent. Oil	--	--		--
Piper auritum	Leaf	--	--		Tramil
Piper betel	Leaf	60	5000	2.1210397339256697	--
Piper cubeba	Fruit	3700	7400	-0.17554872486616202	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Piper nigrum	Seed Essent. Oil	--	--		--
Piper nigrum	Fruit	1000	6000	-0.21726348790373295	--
Pogostemon cablin	Plant	--	--		--
Populus balsamifera	Plant	--	--		--
Psidium guajava	Essential Oil	--	--		--
Psidium guajava	Pericarp Essent. Oil	--	--		--
Pycnanthemum beadlei	Shoot	49	49	-0.43721828483910447	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum californicum	Shoot	144	144	-0.3912115274474154	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pycnanthemum clinopodioides</i>	Shoot	42	704	-0.12001379966482724	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum incanum</i>	Shoot	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum loomisii</i>	Shoot	330	672	-0.13551081268097512	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum montanum</i>	Shoot	42	56	-0.4338283132418221	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum muticum</i>	Shoot	29	300	-0.3156635889936944	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum pilosum</i>	Flower	1	350	-0.6667770826537408	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum pilosum</i>	Leaf	1	350	-0.4722441149974449	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum pycnanthemooides</i>	Shoot	1	1102	0.07273029972351219	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum setosum</i>	Shoot	1060	1643	0.3347266760277625	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum tenuifolium</i>	Shoot	28	2460	0.7303847895962885	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum torreyi</i>	Shoot	140	140	-0.3931486540744339	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Pycnanthemum verticillatum</i>	Shoot	315	315	-0.30839936414237507	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pycnanthemum virginianum</i>	Shoot	72	1015	0.030597795585860108	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Ribes nigrum</i>	Fruit	--	119000	3.1497138144144925	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ribes nigrum</i>	Leaf	34	34	-0.6484758776339403	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rosmarinus officinalis</i>	Plant	16	340	-0.12590614084032536	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Salvia officinalis</i>	Leaf	1	1430	0.1300669724943753	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Salvia officinalis</i>	Essential Oil	--	33000	-0.14865660979366116	--
<i>Sarracenia flava</i>	Essential Oil	--	--		--
<i>Sarracenia flava</i>	Leaf Essent. Oil	--	--		--
<i>Sassafras albidum</i>	Root	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Satureja douglasii</i>	Plant	1	39	-0.5247248558409883	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Satureja obovata</i>	Shoot	1	60	-0.4318911866148036	Fitoterapia No.60: 277.
<i>Satureja vulgaris</i>	Plant	106	106	-0.43595125482755165	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Saussurea lappa</i>	Root Essent. Oil	--	--		--
<i>Schinus molle</i>	Fruit	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Scutellaria churchilliana</i>	Plant	68	68	-0.48630046137248584	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Scutellaria galericulata</i>	Plant	176	176	-0.3432027164553045	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Scutellaria lateriflora</i>	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
<i>Scutellaria parvula</i>	Plant	47	47	-0.51412502288416	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Stevia rebaudiana</i>	Leaf	--	--		--
<i>Syzygium aromaticum</i>	Flower	74400	8160	1.4134608729490745	--
<i>Syzygium aromaticum</i>	Fruit	7440	8160	-0.15290356778862352	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Syzygium aromaticum</i>	Essential Oil	16000	16000	-0.468033109451461	--
<i>Tagetes minuta</i>	Flower Essent. Oil	--	5200		--
<i>Tanacetum parthenium</i>	Fruit Essent. Oil	--	--		--
<i>Tanacetum vulgare</i>	Plant	--	--		--
<i>Thymus capitatus</i>	Plant	300	310	-0.1656555144284313	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Thymus capitatus</i>	Shoot	200	200	-0.36409175466915655	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Thymus mastichina</i>	Plant	130	130	-0.40415175595706687	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Thymus orospedanus</i>	Plant	718	718	0.3749359663698094	J. Nat. Prod.
<i>Thymus serpyllum</i>	Plant	135	2292	2.4604531006257675	--
<i>Thymus vulgaris</i>	Essential Oil	--	13600	-0.5131215564619739	--
<i>Trifolium pratense</i>	Leaf	--	--		--
<i>Trifolium pratense</i>	Flower	--	--		--
<i>Trifolium pratense</i>	Fruit	--	--		--
<i>Vaccinium corymbosum</i>	Fruit	--	--		--
<i>Vaccinium myrtillus</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Valeriana officinalis</i>	Root	29	1520	1.7213037548491001	Father Nature's Farmacy: The aggregate of all these three-letter citations.
<i>Valeriana officinalis</i>	Essential Oil	--	--		--
<i>Valeriana officinalis</i>	Rhizome Essent. Oil	--	--		--
<i>Valeriana officinalis</i>	Leaf Essent. Oil	--	51000	-0.5095909536194779	--
<i>Valeriana officinalis</i>	Root Essent. Oil	--	76000	1	--
<i>Valeriana officinalis</i>	Leaf	115	1300	0.05756656381480434	Father Nature's Farmacy: The aggregate of all these three-letter citations.
<i>Zea mays</i>	Leaf	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zea mays	Husk Essent. Oil	--	--		--
Zingiber officinale	Essential Oil	--	--		--