

List of Plants



Chemid

GERANIAL

*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
<i>Achillea millefolium</i>	Leaf	1.0	50.0	-0.4	*
<i>Acinos suaveolens</i>	Shoot	--	50.0	-0.49	Tumen, G. 1991. The Volatile Constituents of <i>Acinos suaveolens</i> (Sibt. et Smith). G. Don fil. Growing in Turkey. J. Ess. Oil Res. 3:191-2.
<i>Aloysia citrodora</i>	Plant	150.0	1820.0	0.35	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Camellia sinensis</i>	Leaf	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Carum carvi</i>	Seed	--	--		*
<i>Cinnamomum verum</i>	Bark	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Cinnamomum verum</i>	Stem Bark	--	--		*
<i>Cinnamomum camphora</i>	Leaf	--	--		*
<i>Cinnamomum verum</i>	Leaf Essent. Oil	--	--		*
<i>Cinnamomum aromaticum</i>	Plant	--	--		*
<i>Cistus ladaniferus</i>	Leaf	27.0	1090.0	-0.22	*
<i>Citrullus lanatus</i>	Fruit	--	--		*
<i>Citrullus lanatus</i>	Fruit Juice	--	--		*
<i>Citrus limon</i>	Petiole	--	60.0		*
<i>Citrus reticulata</i>	Fruit	5.0	6.0	-1.0	*
<i>Citrus paradisi</i>	Pericarp	4.0	700.0		*
<i>Citrus aurantium</i>	Leaf	--	1.0	-0.41	*
<i>Citrus paradisi</i>	Fruit	420.0	700.0	1.03	*
<i>Citrus limon</i>	Pericarp Essent. Oil	--	17600.0		Jim Duke's personal files.
<i>Citrus limon</i>	Essential Oil	42.0	236.0	1.0	*
<i>Citrus aurantiifolia</i>	Fruit	10.0	680.0	0.97	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Citrus aurantium</i>	Plant	--	--		*
<i>Citrus paradisi</i>	Leaf	--	31.0	-0.4	*
<i>Citrus sinensis</i>	Fruit	6.0	7.0	-1.0	*
<i>Citrus limon</i>	Leaf Essent. Oil	3000.0	233000.0	1.0	Jim Duke's personal files.
<i>Coriandrum sativum</i>	Seed Essent. Oil	--	1300.0		*

Coriandrum sativum	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cymbopogon parkeri	Plant	17.0	1290.0	0.0	Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Elsholtzia blanda	Shoot	--	5.0	-0.61	Bestman, H.J., Rauscher, J., Vostrowsky O., Pant, A.K., Dev. V., Perihar, R. and Mathela, C.S. 1992. Constituents of the Essential Oil of Elsholtzia blanda Benth. (Labiatae). J. Ess. Oils Res. 4: 121-124
Elsholtzia eriostachya	Shoot	--	525.0	0.75	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 polystachya	Leaf	--	15.0	-0.4	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from Elsholtzia polystachya from Two Different Locations in India. Planta Medica 58: 376-379.
Elsholtzia polystachya	Leaf	--	15.0	-0.4	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.
Eugenia uniflora	Leaf	--	--		Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Hedeoma drummondii	Plant	3065.0	5150.0	2.55	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hypericum perforatum	Plant	0.35	6.3	-0.84	*
Lavandula angustifolia	Flower	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Melissa officinalis	Shoot	10.0	1425.0	3.11	*
Mentha x piperita	Leaf	0.005	0.05	-0.41	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Micromeria varia	Shoot	--	475.0	0.62	Pedro, L.G., et al. 1995. Composition of the Essential oil of Micromeria varia Benth. ssp. thymoides (Sol. ex Lowe) Perez var. thymoides, and endemic species of the Madeira Archipelago. flav. & Fragr. J. 10(3): 199-202.
Micromeria varia	Shoot	--	475.0	0.62	*
Monarda fistulosa	Plant	15.0	837.0	-0.3	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda russeliana	Plant	--	470.0	-0.54	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Myrtus communis	Shoot	--	1.5	-0.62	*
Ocimum basilicum	Plant	--	5.0	-0.85	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
Ocimum basilicum	Shoot Essent. Oil	--	2100.0		*
Ocimum basilicum	Plant	--	5.0	-0.85	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	Leaf Essent. Oil	--	2000.0	-1.0	*
Ocimum tenuiflorum	Plant	350.0	3150.0	1.23	*
Pelargonium roseum	Shoot	--	252.0	0.04	*
Pelargonium graveolens	Essential Oil	2.0	12.0	-1.0	*
Pelargonium citrosum	Shoot	--	7.0	-0.61	Matsuda, B. M., et al. 1996. Essential Oil Analysis and Field Evaluation of the Citrosa Plant 'Pelargonium citrosum' as a Repellent Against Populations of Aedes Mosquitoes. J. Am. Mosq. Contr. Assoc. 12(1):69-74.
Perilla frutescens	Leaf Essent. Oil	--	--		Honda, G., Yuba, A., Nishizawa, A., Tabata, M. 1994. Genetic Control of Geranial Formation in Perilla frutescens. Biochem. Genet, 32(5/6): 155-160.

Pimenta racemosa	Leaf	--	18090.0	2.64	*
Prunus armeniaca	Essential Oil	--	--		*
Rosa damascena	Essential Oil	--	--		*
Salvia sclarea	Plant	0.8	580.0	-0.47	Flavour and Fragrance Journal, 6: 154.
Syzygium aromaticum	Fruit	--	--		*
Tamarindus indica	Essential Oil	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Thymus funkii	Shoot	--	8.0	-0.6	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	--	52.0	-0.49	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 x citriodorus	Plant	--	820.0	-0.31	Stahl-Biskup, E. and Holthuijzen, J. 1995. Essential oil and glycosidally bound volatiles of lemon-scented thyme, Thymus x citriodorus (Pers.) Schreb. Flav. & Fragr. J. 10: 225-229.
Thymus longicaulis	Shoot	--	52.0	-0.49	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
Thymus capitatus	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Thymus funkii	Shoot	--	8.0	-0.6	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	--	--	-0.62	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.
Zea mays	Hull Husk	--	--		*
Zea mays	Husk Essent. Oil	--	--		*
Zingiber officinale	Rhizome Essent. Oil	159000.0	400000.0		*
Zingiber officinale	Rhizome	--	980.0		*