

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for GERANIAL

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zingiber officinale	Rhizome Essent. Oil	159000.0	400000.0		--
Hedeoma drummondii	Plant	3065.0	5150.0	2.5540264861040383	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus limon	Leaf Essent. Oil	3000.0	233000.0	1.0	Jim Duke's personal files.
Citrus paradisi	Fruit	420.0	700.0	1.029040358819024	--
Ocimum tenuiflorum	Plant	350.0	3150.0	1.2324614847213144	--
Aloysia citrodora	Plant	150.0	1820.0	0.35362075880180355	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus limon	Essential Oil	42.0	236.0	1.0	--
Cistus ladaniferus	Leaf	27.0	1090.0	-0.22261448445443258	--
Cymbopogon parkeri	Plant	17.0	1290.0	0.003406033435381745	Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Monarda fistulosa	Plant	15.0	837.0	-0.29592843937780516	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus aurantiifolia	Fruit	10.0	680.0	0.9705306013879492	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Melissa officinalis	Shoot	10.0	1425.0	3.11316057777946	--
Citrus sinensis	Fruit	6.0	7.0	-0.9983227361677096	--
Citrus reticulata	Fruit	5.0	6.0	-1.0012482240392633	--
Citrus paradisi	Pericarp	4.0	700.0		--
Pelargonium graveolens	Essential Oil	2.0	12.0	-1.0	--
Achillea millefolium	Leaf	1.0	50.0	-0.3978078018016716	--
Salvia sclarea	Plant	0.8	580.0	-0.4657495420554852	Flavour and Fragrance Journal, 6: 154.
Hypericum perforatum	Plant	0.35	6.3	-0.8448404627021195	--
Mentha x piperita	Leaf	0.005	0.05	-0.40622213468772406	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Myrtus communis	Shoot	0.0	1.5	-0.6210581561316936	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pimenta racemosa	Leaf	0.0	18090.0	2.64112243372159	--
Citrus aurantium	Leaf		1.0	-0.4060621023305319	--
Syzygium aromaticum	Fruit				--
Cinnamomum aromaticum	Plant				--
Acinos suaveolens	Shoot		50.0	-0.4938297693423076	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.
Citrus aurantium	Plant				--
Coriandrum sativum	Seed Essent. Oil		1300.0		--
Cinnamomum verum	Bark				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus limon	Pericarp Essent. Oil		17600.0		Jim Duke's personal files.
Elsholtzia polystachya	Leaf		15.0	-0.4037037307508575	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	-0.4037037307508575	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.
Zea mays	Hull Husk				--
Elsholtzia blanda	Shoot		5.0	-0.6118767261572018	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
Camellia sinensis	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus funkii	Shoot		8.0	-0.6040069290362089	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		8.0	-0.6040069290362089	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.
Ocimum basilicum	Shoot Essent. Oil		2100.0		--
Coriandrum sativum	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Ocimum basilicum	Leaf Essent. Oil		2000.0	-1.0	--
Monarda russeliana	Plant		470.0	-0.538435617131535	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lavandula angustifolia	Flower				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cinnamomum verum	Leaf Essent. Oil				--
Cinnamomum verum	Stem Bark				--
Citrus limon	Petiole		60.0		--
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.
Citrullus lanatus	Fruit				--
Citrullus lanatus	Fruit Juice				--
Pelargonium citrosum	Shoot		7.0	-0.6066301947432066	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.
Cinnamomum camphora	Leaf				--
Thymus capitatus	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Micromeria varia	Shoot		475.0	0.6210581561316935	Pedro, L.G., et al. 1995. Composition of the Essential oil of <i>Micromeria varia</i> Benth. ssp. <i>thymoides</i> (Sol. ex Lowe) Perez var. <i>thymoides</i> , and endemic species of the Madeira Archipelago. <i>flav. & Fragr. J.</i> 10(3): 199-202.
Micromeria varia	Shoot		475.0	0.6210581561316935	--
Perilla frutescens	Leaf Essent. Oil				Honda, G., Yuba, A., Nishizawa, A., Tabata, M. 1994. Genetic Control of Geranial Formation in <i>Perilla frutescens</i> . <i>Biochem. Genet.</i> 32(5/6): 155-160.
Ocimum basilicum	Plant		5.0	-0.8456994799530183	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. <i>Die Nahrung</i> 37:(5): 501-504.
Ocimum basilicum	Plant		5.0	-0.8456994799530183	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. <i>Die Nahrung</i> 37:(5): 501-504.
Zea mays	Husk Essent. Oil				--
Citrus paradisi	Leaf		31.0	-0.4010084489455154	--
Prunus armeniaca	Essential Oil				--
Elsholtzia eriostachya	Shoot		525.0	0.7522214414815759	Pant, A.K., Dev, V., Parihar, R., Mathela, C.S., Rauscher, J., Vostrowsky, O. and Bestmann, H.J. 1992. The Essential Oil from <i>Elsholtzia eriostachya</i> var. <i>pusilla</i> . <i>J. Ess. Oil Res.</i> 4: 547-549.
Thymus longicaulis	Shoot		52.0	-0.4885832379283123	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.
Carum carvi	Seed				--
Thymus longicaulis	Shoot		0.0	-0.62499305469219	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus longicaulis	Shoot		52.0	-0.4885832379283123	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	-0.30716174188955836	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.
Rosa damascena	Essential Oil				--
Eugenia uniflora	Leaf				Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Pelargonium roseum	Shoot		252.0	0.036069903471217676	--
Zingiber officinale	Rhizome		980.0		--