

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for NERAL

Plant	Part	Low PPM	High PPM	StdDev	Reference
Aloysia citrodora	Plant	120.0	840.0	0.008086064007136419	--
Apium graveolens	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Apium graveolens	Shoot				--
Camellia sinensis	Leaf				--
Cinnamomum camphora	Leaf		5.0	-0.3854017168522382	--
Citrullus lanatus	Fruit Juice				--
Citrus paradisi	Fruit	0.0	210.0	0.21477685159099982	--
Citrus limon	Essential Oil	27.0	130.0	1.0	--
Citrus aurantiifolia	Fruit	40.0	460.0	1.5487945633363407	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus limon	Petiole		60.0		--
Citrus limon	Pericarp Essent. Oil				Jim Duke's personal files.
Citrus sinensis	Fruit	4.0	5.0	-0.8791176720401793	--
Citrus limon	Leaf Essent. Oil	4000.0	172700.0	1.0	Jim Duke's personal files.
Citrus reticulata	Fruit	3.0	4.0	-0.8844537428871607	--
Citrus aurantium	Leaf		1.0	-0.386496325306488	--
Citrus aurantium	Plant				--
Cymbopogon winterianus	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cymbopogon parkeri	Plant	42.0	583.0	-0.2288715699534182	Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Cymbopogon citratus	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Elsholtzia blanda	Shoot		3.0	-0.56518244220641	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

Plant	Part	Low PPM	High PPM	StdDev	Reference
Elsholtzia polystachya	Leaf		4.0	-0.3856753689658006	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		4.0	-0.3856753689658006	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from Elsholtzia polystachya from Two Different Locations in India. Planta Medica 58: 376-379.
Elsholtzia eriostachya	Shoot		390.0	0.6692873661428396	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.
Hedeoma drummondii	Plant	36.0	2690.0	1.71381222286716	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hypericum perforatum	Plant	0.35	6.3	-0.7605971244477834	--
Laurus nobilis	Leaf				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.
Lippia alba	Plant				Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Melissa officinalis	Shoot	10.0	1100.0	2.9340769370161395	--
Mentha x piperita	Leaf	0.001	0.01	-0.38676724089891473	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Micromeria varia	Shoot		190.0	0.031318472939093	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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Micromeria varia	Shoot		190.0	0.031318472939093	--
Monarda fistulosa	Plant	24.0	589.0	-0.22333948511387217	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda russeliana	Plant		54.0	-0.7166170499733925	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda punctata	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Myrtus communis	Shoot	1.0	2.0	-0.5683722866724288	--
Ocimum gratissimum	Flower	466.0	695.0	1.0	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.
Ocimum basilicum	Plant		5.0	-0.761795742829685	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 tenuiflorum	Plant	350.0	3150.0	2.137938727232355	--
Ocimum basilicum	Leaf Essent. Oil		1000.0	-1.0	--
Ocimum basilicum	Shoot Essent. Oil		2000.0		--
Ocimum gratissimum	Leaf	150.0	210.0	-0.32930303357193585	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.
Pelargonium roseum	Shoot		18.0	-0.517334775216129	--
Pelargonium graveolens	Essential Oil	2.0	12.0	-1.0	--
Petroselinum crispum	Leaf		2.9	-0.3859763862907193	--
Pimenta racemosa	Leaf	0.0	11080.0	2.645295440851897	--
Rosa damascena	Essential Oil				--
Salvia sclarea	Plant	0.4	340.0	-0.4529210059550321	Flavour and Fragrance Journal, 6: 154.
Telosma cordata	Flower		71.0	-1.0	K. Furukawa, T. Arai, S. Hashimoto, (1993); Volatile components of Telosma cordata Merrill flowers, Flavour Fragr. J., Vol 8, 221-223.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus funkii	Shoot		5.0	-0.5588027532743726	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 capitatus	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Thymus longicaulis	Shoot		42.0	-0.44077850803167945	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		55.0	-0.7156950358334682	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		42.0	-0.44077850803167945	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 funkii	Shoot				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		0.0	-0.5747519756044662	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.
Zingiber officinale	Rhizome Essent. Oil	81000.0	260000.0		--
Zingiber officinale	Rhizome		410.0		--