

## Dr. Duke's Phytochemical and Ethnobotanical Databases

### List of Plants for EUGENOL

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cinnamomum verum	Leaf Essent. Oil	701000.0	945000.0	1.556183816708286	--
Ocimum basilicum	Essential Oil	300.0	857500.0	1.714831728119204	--
Pimenta dioica	Leaf Essent. Oil		792400.0	1.1351063586498586	--
Syzygium aromaticum	Essential Oil	61000.0	627000.0	1.0627703935425195	--
Pimenta dioica	Flower Essent. Oil		543000.0		--
Cinnamomum verum	Bark Essent. Oil	61000.0	420000.0		--
Ocimum basilicum	Leaf Essent. Oil	51200.0	270000.0	-0.30638029986732646	--
Origanum majorana	Leaf Essent. Oil		255000.0	-0.34777061356900674	--
Syzygium aromaticum	Flower	108655.0	180000.0	2.6457158873560447	--
Syzygium aromaticum	Stem	36000.0	57000.0	1.0	--
Myristica fragrans	Seed Essent. Oil	1000.0	38000.0		--
Pimenta dioica	Fruit	3500.0	36000.0	1.4142135623730538	--
Ocimum basilicum	Shoot Essent. Oil	5700.0	26700.0		--
Syzygium aromaticum	Leaf	7920.0	26400.0	2.285513566975547	--
Pimenta racemosa	Leaf	16.0	21840.0	1.749765335298858	--
Piper betel	Leaf	535.0	17850.0	1.2809856325817552	--
Cinnamomum verum	Leaf	1400.0	16800.0	1.1576225529193598	Wealth of India.
Cinnamomum verum	Bark	140.0	16800.0	1.4140777354335337	--
Mentha pulegium	Essential Oil		16000.0	-0.665687200498063	--
Aspalathus linearis	Leaf Essent. Oil		13600.0	-1.0138787287413815	--
Pimenta dioica	Leaf	8348.0	12000.0	0.593677045891266	--
Alpinia galanga	Rhizome	100.0	12000.0	1.414174489403805	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Laurus nobilis	Leaf Essent. Oil		10200.0	-1.023260533180429	--
Ocimum basilicum	Leaf	14.0	8575.0	0.19127842889726174	--
Daucus carota	Seed		7000.0	1.3881489891384902	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ocimum tenuiflorum	Leaf	45.0	5580.0	-0.16060006975880922	--
Ocimum gratissimum	Plant	0.0	5340.0	2.2877369900870366	--
Ocimum sanctum	Leaf	4200.0	4970.0	-0.23226814461029613	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Ocimum gratissimum	Shoot		4045.0	2.778562038279623	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.
Myristica fragrans	Essential Oil	2000.0	3000.0	-0.7024628939882881	--
Ocimum kilimandscharicum	Shoot	0.0	3000.0	1.9332985936503468	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum kilimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.
Ocimum suave	Shoot	110.0	2860.0	1.8200575580062333	J. Nat. Prod. 44: 308.
Commiphora myrrha	Essential Oil		2300.0	-0.7044431236377617	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Curcuma longa	Essential Oil		2100.0	-0.7050089035376114	--
Curcuma longa	Rhizome Essent. Oil		2100.0		--
Origanum majorana	Plant	200.0	2000.0	0.46992531158530604	--
Foeniculum vulgare	Root Essent. Oil		2000.0		Jim Duke's personal files.
Ocimum gratissimum	Seed		1670.0	-0.4600193985654616	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Laurus nobilis	Leaf	18.0	1335.0	-0.6593393775367795	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cistus ladaniferus	Leaf	15.0	1050.0	-0.6928236420165726	--
Tanacetum parthenium	Fruit Essent. Oil		1000.0		--
Dianthus caryophyllus	Flower	0.6	870.0	-0.36790032586332355	--
Ageratum conyzoides	Shoot		800.0	0.15379660495713438	R. Vera, (1993); Chemical composition of the essential oil Ageratum conyzoides L. (Asteraceae) from Reunion, Flavour Fragr. J., Vol.8, 257-260.
Anethum graveolens	Leaf	280.0	750.0	-0.7280702362058284	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hyssopus officinalis	Flower	62.0	624.0	-0.37203893797995374	Flavour and Fragrance Journal, 6: 72.
Hyssopus officinalis	Leaf	2.0	443.0	-0.764139250926167	--
Alpinia officinarum	Rhizome	90.0	400.0	-0.6979831170877149	--
Cinnamomum aromaticum	Leaf	2.8	400.0	-0.7691912627599603	--
Cinnamomum aromaticum	Bark	1.8	375.0	-0.690064810647921	--
Viola odorata	Flower	147.0	357.0	-0.37653084625288163	--
Mentha pulegium	Plant	160.0	320.0	-0.44442307760119315	--
Myristica fragrans	Seed	40.0	320.0	-0.9281295905730291	--
Acorus calamus	Rhizome	30.0	300.0	-0.7161913723160901	--
Cymbopogon winterianus	Plant	66.0	233.0	-0.4917732620412083	--
Origanum minutiflorum	Shoot	55.0	125.0	-0.39218695975555584	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.
Ravensara aromatica	Bark		110.0	-0.7240129247856127	--
Ocimum tenuiflorum	Stem	20.0	100.0	-1.0	--
Pycnanthemum setosum	Shoot	60.0	93.0	-0.41807062504563897	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Ravensara aromatica	Leaf		60.0	-0.8091374028411169	--
Umbellularia californica	Plant	10.0	40.0	-0.5968144757989429	--
Ocimum kilimandscharicum	Flower	0.0	35.0	-0.38194805398277965	Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum kilimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.
Juglans regia	Leaf	10.0	30.0	-0.8126620622600426	--
Thymus capitatus	Shoot		21.0	-0.47630887194832594	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.
Myrtus communis	Shoot	1.0	15.0	-0.4811620591902165	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Micromeria congesta	Leaf	5.0	15.0	-0.8144243919695053	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.
Ocimum basilicum	Plant		14.0	-0.6109651056315911	--
Jasminum officinale	Flower	3.0	10.0	-0.38236864464503884	--
Lavandula latifolia	Plant	0.0	9.0	-0.613686380599408	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Calamintha nepeta	Shoot		8.0	-0.4868241109724222	Kirimer, N., Baser, K.H.C., Ozek, T. and Kurkcuoglu, M. 1992. Composition of the Essential Oil of Calamintha nepeta subsp. glandulosa. J. Ess. Oil Res. 4:189-190
Thymus funkii	Shoot		5.0	-0.48925070459336745	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.
Hyacinthus orientalis	Flower	0.32	4.6	-0.38245949222808684	--
Rosa gallica	Flower	2.0	4.0	-0.38246958640398104	--
Ephedra sinica	Shoot		4.0	-0.49005956913368254	--
Glycyrrhiza glabra	Root		1.0		--
Elsholtzia blanda	Shoot		0.9	-0.4925670492086593	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
Rosmarinus officinalis	Shoot		0.5	-0.4928905950247854	Tucker, A. O. and Maciarelo, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986.
Thymus cilicicus	Shoot		0.1	-0.49321414084091153	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.
Vaccinium corymbosum	Fruit		0.02	-0.7071064865585788	--
Vaccinium myrtillus	Fruit Juice		0.01		--
Morinda citrifolia	Fruit		0.01	-0.7071070758144754	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ocimum tenuiflorum	Inflorescence		0.0		--
Micromeria fruticosa	Shoot		0.0	-0.49329502729494296	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of Micromeria fruticosa (L.) Druce subsp. barbata (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		0.0	-0.49329502729494296	Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of Micromeria fruticosa (L.) Druce subsp. barbata (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 myrtifolia	Shoot		0.0	-0.49329502729494296	Ozek, T., Kirimer, N., and Baser, K.H.C. 1992. Composition of the Essential Oil of Micromeria myrtifolia Boiss. et Hohen. J. Ess. Oil Res., 4: 79-80.
Origanum onites	Shoot		0.0	-0.49329502729494296	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.
Eucalyptus brassiana	Leaf		0.0	-0.8161867216789681	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.
Artemisia capillaris	Essential Oil				--
Pogostemon cablin	Plant				--
Cinnamomum aromaticum	Plant				--
Laurus nobilis	Essential Oil				--
Vanilla planifolia	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Melia azedarach	Wood				--
Nicotiana tabacum	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Agathosma betulina	Leaf Essent. Oil				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hyssopus officinalis	Essential Oil				--
Syzygium aromaticum	Fruit				--
Polianthes tuberosa	Flower				--
Lantana camara	Leaf				--
Mentha longifolia	Shoot				--
Piper auritum	Leaf				Tramil
Zea mays	Seed				--
Ligustrum japonicum	Flower				--
Panax ginseng	Root Essent. Oil				--
Capsicum annuum	Fruit				--
Psidium guajava	Essential Oil				--
Mentha arvensis var. piperascens	Essential Oil				Jim Duke's personal files.
Cuminum cyminum	Fruit				--
Camellia sinensis	Fruit				--
Pueraria montana	Fruit Essent. Oil				--
Pimpinella anisum	Plant				--
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.
Stevia rebaudiana	Flower				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				Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
Coffea arabica	Seed				Jim Duke's personal files.
Humulus lupulus	Essential Oil				--
Prunus cerasus	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Tanacetum parthenium	Essential Oil				--
Ptychopetalum olacoides	Root				Ito, Y., Hirayama, F., Aikawa, Y., Kondo, H., Sagara, K., Shoji, J. 1995. Constituents from Muira-Puama (The Roots of Ptychopetalum olacoides). Nat. Med. 49, 4: 487.
Prunus dulcis	Flower				--
Oenanthe javanica	Shoot				--
Pelargonium graveolens	Essential Oil				--
Ocimum canum	Shoot				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Cinnamomum verum	Essential Oil				--
Cinnamomum verum	Stem Bark				--
Cinnamomum verum	Root Bark				--
Myroxylon balsamum	Plant				--
Sassafras albidum	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Syzygium aromaticum	Bulb				--
Viola odorata	Leaf				--
Melaleuca bracteata	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Scutellaria baicalensis	Root Essent. Oil				--
Curcuma longa	Tuber				--
Melaleuca viridiflora	Leaf				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
Acacia farnesiana	Flower				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Croton eluteria	Bark				--
Cananga odorata	Flower				--
Thymus vulgaris	Plant				Stitt, Paul. Why George should eat broccoli.
Vaccinium macrocarpon	Fruit				--
Cynara cardunculus	Essential Oil				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Artemisia dracunculus	Essential Oil				--
Melissa officinalis	Shoot				--
Eucalyptus citriodora	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Aloysia citrodora	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.
Agastache rugosa	Shoot				Jim Duke's personal files.
Magnolia kobus	Flower				--
Drimys winteri	Bark				--
Artemisia dracunculus	Shoot				--
Zingiber officinale	Rhizome Essent. Oil				--
Hibiscus sabdariffa	Calyx				--
Piper nigrum	Fruit				--
Cuminum cyminum	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Apium graveolens	Seed Essent. Oil				--
Cinnamomum camphora	Plant				--
Piper nigrum	Leaf Essent. Oil				--



Plant	Part	Low PPM	High PPM	StdDev	Reference
Ocimum sp	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Lycopersicon esculentum	Fruit				--
Pimpinella anisum	Seed Essent. Oil				--
Pimpinella anisum	Essential Oil				--
Mentha spicata	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Mentha x piperita	Essential Oil				--
Origanum vulgare	Shoot				--
Ficus carica	Fruit				--
Helichrysum angustifolium	Plant				--
Commiphora myrrha	Resin, Exudate, Sap				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Artemisia dracunculus	Shoot Essent. Oil				--
Narcissus tazetta	Flower				--
Rosa centifolia	Essential Oil				--
Camellia sinensis	Fruit Essent. Oil				--
Ficus carica	Flower				--
Helianthus annuus	Flower				--
Mentha spicata	Shoot				--
Mentha spicata	Essential Oil				--
Apium graveolens	Plant				Stitt, Paul. Why George should eat broccoli.
Croton lechleri	Plant				Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.
Boronia megastigma	Flower				--
Trifolium pratense	Flower				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Anethum graveolens	Plant				--
Morus alba	Plant				--
Pimpinella anisum	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Santalum album	Wood				--
Peumus boldus	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Foeniculum vulgare	Sprout Seedling				Jim Duke's personal files.
Lonicera japonica	Flower				Schlotzhauer, W.S., S.D. Pair, and R.J. Horvat. 1996. Volatile constituents from the flowers of Japanese Honeysuckle. J. Agric. Food Chem. 44:206-209.
Eucalyptus citriodora	Essential Oil				--
Levisticum officinale	Root				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Tilia sp.	Flower				--
Iris x germanica	Rhizome				--
Anethum graveolens	Essential Oil				--
Lavandula x intermedia	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Rosa damascena	Essential Oil				--
Achillea millefolium	Plant				Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in Achillea millefolium L. (Asteraceae). Economic Botany 48(2): 111-120, 1994.
Syzygium aromaticum	Bark				--
Syzygium aromaticum	Leaf Essent. Oil				--