

List of Plants

BETA-SELINENE

Chemid

BETASELINENE

*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>Ageratum conyzoides</i>	Plant	4.0	32.0	-0.45	*
<i>Angelica archangelica</i>	Root	--	--		*
<i>Apium graveolens</i>	Seed	100.0	9750.0	1.0	*
<i>Apium graveolens</i>	Fruit Essent. Oil	55000.0	325000.0	1.0	*
<i>Apium graveolens</i>	Stem Essent. Oil	--	10000.0		*
<i>Apium graveolens</i>	Leaf Essent. Oil	--	30000.0	1.0	*
<i>Apium graveolens</i>	Seed Essent. Oil	55000.0	325000.0		*
<i>Artemisia annua</i>	Plant	--	--		*
<i>Atractylodes lancea</i>	Rhizome	--	--		*
<i>Boswellia sacra</i>	Essential Oil	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Callicarpa americana</i>	Leaf	--	25.0	-0.27	*
<i>Carthamus tinctorius</i>	Leaf	--	0.11	-0.52	*
<i>Carthamus tinctorius</i>	Flower	0.14	0.29	-1.0	*
<i>Chamaemelum nobile</i>	Plant	--	--		*
<i>Cinnamomum verum</i>	Leaf	--	9.4	-0.43	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. <i>Flav. & Fragr. J.</i> , 10: 239-242.
<i>Cinnamomum camphora</i>	Leaf	--	--		*
<i>Cinnamomum verum</i>	Leaf Essent. Oil	--	--		*
<i>Cinnamomum aromaticum</i>	Plant	--	--		*
<i>Cinnamomum verum</i>	Plant	--	--		*
<i>Cinnamomum verum</i>	Stem Bark	--	--		*
<i>Citrus mitis</i>	Fruit Juice	--	--		*
<i>Copaifera</i> spp	Gum	--	--		*
<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>Cyperus rotundus</i>	Root	--	--		*

Daucus carota	Seed	118.0	410.0	-1.0	*
Elsholtzia polystachya	Leaf	--	22.0	-0.3	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	--	22.0	-0.3	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.
Eucalyptus viridis	Leaf	--	0.5	-0.52	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus tetraptera	Leaf	--	75.0	0.23	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Symphyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus desquamata	Leaf	--	15.0	-0.37	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus lansdowneana	Leaf	--	2.4	-0.5	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus forrestiana	Leaf	--	75.0	0.23	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Symphyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus behriana	Leaf	--	30.0	-0.22	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus ceratocorys	Leaf	--	50.0	-0.02	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Symphyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus angulosa	Leaf	--	16.0	-0.36	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Symphyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus sparsa	Leaf	--	460.0	4.08	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus fasciculosa	Leaf	--	1.3	-0.51	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus stoatei	Leaf	--	135.0	0.83	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Symphyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus odorata	Leaf	--	4.4	-0.48	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus ochrophloia	Leaf	--	0.5	-0.52	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus erythrandra	Leaf	--	41.0	-0.11	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Symphyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus nova-anglica	Leaf	55.0	90.0	0.38	Brophy, J. L., Lassak, E. V., & Boland, D. J. 1992. The Leaf Essential Oils of Eucalyptus nova-anglica. Deane & Maiden. Journal of Essential Oil Res. 4: 29-32.

<i>Eucalyptus cuprea</i>	Leaf	--	18.0	-0.34	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus populnea</i>	Leaf	--	1.8	-0.51	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus leucoxylo</i>	Leaf	--	10.0	-0.42	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus melanophloia</i>	Leaf	--	0.8	-0.52	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus porosa</i>	Leaf	--	10.0	-0.42	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus incrassata</i>	Leaf	--	125.0	0.73	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part I. Subgenus <i>Symphyomyrtus</i> , Section <i>Dumaria</i> , Series <i>Incrassatae</i> . <i>Flavour and Fragrance J.</i> 9(3):113-7
<i>Eucalyptus intertexta</i>	Leaf	--	5.5	-0.47	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eucalyptus dolichorhyncha</i>	Leaf	--	50.0	-0.02	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part I. Subgenus <i>Symphyomyrtus</i> , Section <i>Dumaria</i> , Series <i>Incrassatae</i> . <i>Flavour and Fragrance J.</i> 9(3):113-7
<i>Eucalyptus largisparsa</i>	Leaf	--	52.0	-0.0	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . <i>Flavour and Fragrance J.</i> 10(6):359-364
<i>Eupatorium triplinerve</i>	Plant	--	--		Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Humulus lupulus</i>	Fruit	--	150.0	1.0	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Hypericum perforatum</i>	Plant	1.5	27.0	-0.5	*
<i>Juniperus communis</i>	Fruit	--	32.0	-1.0	*
<i>Juniperus communis</i>	Fruit Essent. Oil	--	--		*
<i>Laurus nobilis</i>	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Leptospermum scoparium</i>	Essential Oil	--	--		*
<i>Levisticum officinale</i>	Root	10.0	100.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Magnolia denudata</i>	Bulb	--	--		*
<i>Magnolia denudata</i>	Leaf	--	--		*
<i>Magnolia denudata</i>	Flower	--	--		*
<i>Magnolia denudata</i>	Twig	--	--		*
<i>Melissa officinalis</i>	Shoot	--	--		*
<i>Metrosideros sclerocarpa</i>	Leaf	98.0	392.0	3.4	*
<i>Murraya koenigii</i>	Leaf	--	0.1	-0.52	*

Myrrhis odorata	Leaf Essent. Oil	--	9500.0	-1.0	*
Myrtus communis	Plant	--	1.0	-0.77	*
Ocimum gratissimum	Plant	15.0	240.0	1.72	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Ocimum basilicum	Plant	--	--		*
Panax ginseng	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Panax quinquefolius	Plant	--	--		*
Panax ginseng	Root Essent. Oil	--	80000.0		*
Pelargonium citrosum	Shoot	--	2.0		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.
Petroselinum crispum	Leaf	--	1.68	-0.51	*
Pimenta dioica	Plant	--	--		*
Pinus sylvestris	Wood	--	--		*
Piper nigrum	Fruit Essent. Oil	--	6400.0	-1.0	*
Piper nigrum	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Psidium guajava	Fruit	--	--		*
Sassafras albidum	Leaf	--	11.0	-0.41	*
Stevia rebaudiana	Leaf	--	29.0	-0.23	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
Stevia rebaudiana	Flower	--	43.0	1.0	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
Syzygium aromaticum	Fruit	--	--		*
Tagetes lucida	Shoot	--	--		Bicchi, C., Fresia, M., Rubiolo, P., Monti, D., Franz, C., Goehler, I. 1997. Constituents of Tagetes lucida Cav. ssp. lucida essential oil. Flavor & Fragrance, 12(1): 47-52.
Zingiber officinale	Rhizome	--	--		*
Zingiber officinale	Rhizome Essent. Oil	--	--		*