

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Boswellia sacra</u>	Essential Oil	not available	not available	not available	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Chamaemelum nobile</u>	Plant	not available	not available	not available	Duke, 1992 *
<u>Glechoma hederacea</u>	Plant	1.0	6.0	-0.5	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Hyptis suaveolens</u>	Shoot	not available	15.0	-0.3	Mallvarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of <i>Hyptis suaveolens</i> (L.) Poit. J. Ess. Oil Res. 5: 321.
<u>Hyptis suaveolens</u>	Shoot	not available	15.0	-0.3	Mallvarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of <i>Hyptis suaveolens</i> (L.) Poit. J. Ess. Oil Res. 5: 321.
<u>Leonotis leonurus</u>	Se	not available	4.0	not available	Pedro, L.G., Barroso, J.G., Marques, N.T., Ascenso, L., Pais, M.S.S. and Scheffer, J.J.C. 1991. Composition of the Essential Oil from Sepals of <i>Leonotis leonurus</i> R. Br. J. Ess. Oil Res. 3: 451-3
<u>Lycopus virginicus</u>	Plant	53.0	132.0	0.5	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Magnolia denudata</u>	Bark	not available	not available	not available	Duke, 1992 *
<u>Magnolia denudata</u>	Bulb	not available	not available	not available	Duke, 1992 *
<u>Magnolia denudata</u>	Flower	not available	not available	not available	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Magnolia denudata</u>	Twig	not available	not available	not available	Duke, 1992 *
<u>Melissa officinalis</u>	Shoot	1.0	48.0	0.0	Deutsche Apot. Ziiit. 129(4):155-163. W. Schulze et al. Die Melisse.
<u>Mentha longifolia</u>	Shoot	1.0	535.0	4.3	Duke, 1992 *
<u>Mentha pulegium</u>	Plant	15.0	30.0	-0.3	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Mentha spicata</u>	Leaf	2.0	50.0	-0.3	Duke, 1992 *
<u>Monarda didyma</u>	Flower	not available	10.0	-0.6	Flavour and Fragrance Journal, 6: 80.
<u>Monarda didyma</u>	Leaf	50.0	90.0	0.0	Duke, 1992 *
<u>Monarda didyma</u>	Plant	5.0	70.0	0.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Monarda fistulosa</u>	Plant	1.0	62.0	-0.1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Myroxylon balsamum</u>	Plant	not available	not available	not available	Duke, 1992 *
<u>Ocimum basilicum</u>	Plant	not available	not available	not available	Duke, 1992 *
<u>Pelargonium graveolens</u>	Essential Oil	not available	not available	not available	Duke, 1992 *
<u>Pycnanthemum albescens</u>	Shoot	16.0	54.0	0.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Pycnanthemum montanum</u>	Shoot	91.0	104.0	0.5	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Pycnanthemum pilosum</u>	Flower	10.0	35.0	-0.1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Pycnanthemum pilosum</u>	Leaf	10.0	35.0	-0.3	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Pycnanthemum tenuifolium</u>	Shoot	16.0	400.0	3.1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Pycnanthemum virginianum</u>	Shoot	6.0	232.0	1.6	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Satureja douglasii</u>	Plant	not available	533.0	3.5	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Satureja montana</u>	Plant	4.0	85.0	0.1	Duke, 1992 *
<u>Thymus mastichina</u>	Plant	not available	10.0	-0.4	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<u>Vitex agnus-castus</u>	Leaf	not available	0.2	-0.6	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
<u>Ocimum gratissimum</u>	Flower	95.0	145.0	2.0	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Ocimum gratissimum</u>	Leaf	40.0	70.0	-0.1	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.
<u>Calamintha nepeta</u>	Leaf	not available	8.0	-0.5	Akgul, A., De Pooter, H.L., and De Buyck, L.F. 1991. The Essential Oils of Calamintha nepeta subsp. glandulosa and Ziziphora clinopodioides from Turkey. J. Ess. Oil Res., 3: 7-10.
<u>Calamintha nepeta</u>	Shoot	not available	5.0	-0.4	Kirimer, N., Baser, K.H.C., Ozek, T. and Kurcuoglu, M. 1992. Composition of the Essential Oil of Calamintha nepeta subsp. glandulosa. J. Ess. Oil Res. 4:189-190
<u>Micromeria myrtifolia</u>	Shoot	not available	0.1	-0.4	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.
<u>Acinos alpinus</u>	Shoot	not available	20.0	-0.3	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)
<u>Acinos alpinus</u>	Shoot	not available	20.0	-0.3	Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.)

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Micromeria congesta</u>	Leaf	45.0	55.0	-0.2	Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . <i>J. Ess. Oil Res.</i> , 3: 387-393.
<u>Salvia gilliesii</u>	Shoot	not available	44.0	0.0	Velasco-Negueruela, A. et al. 1993. The Essential Oil of <i>Salvia gilliesii</i> Benth. <i>J. Ess. Oil Res.</i> 5: 319-320.
<u>Satureja cilicica</u>	Shoot	not available	2.0	-0.4	Tumen, G. Baser, K.H.C. and Kirimer, N. 1993. The Essential Oil of <i>Satureja cilicica</i> P.H. Davis. <i>J. Ess. Oil Res.</i> 5: 547-548.
<u>Sideritis athoa</u>	Shoot	not available	4.0	-0.4	Ozek, T., Baser, K.H.C. and Tumen, G. 1993. The Essential Oil of <i>Sideritis athoa</i> Papanikolaou Et Kokkini. <i>J. Ess. Oil Res.</i> 5: 669-670.
<u>Sideritis germanicolpitana</u>	Plant	6.0	9.0	-0.5	<i>J. Essential Oil</i> , 4: 533.
<u>Sideritis mugronensis</u>	Flower	10.0	15.0	-0.5	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of <i>Sideritis mugronensis</i> Flower and Leaf. <i>J. Ess. Oil Res.</i> , 3: 395-397.
<u>Sideritis mugronensis</u>	Leaf	15.0	25.0	-0.4	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of <i>Sideritis mugronensis</i> Flower and Leaf. <i>J. Ess. Oil Res.</i> , 3: 395-397.
<u>Sideritis pauli</u>	Shoot	not available	10.0	-0.3	Burzaco, A., Velasco-Negueruela, A. and Perez-Alonso, M.J. 1992. Essential Oil Analysis of <i>Sideritis pauli</i> Pau. <i>FFJ7</i> : 47-8. 1992.

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u><i>Teucrium asiaticum</i></u>	Shoot	not available	0.9	-0.4	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9.
<u><i>Teucrium cyprium</i></u>	Leaf	not available	105.0	0.1	Arnold, N., Bellomaria, B., Valentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<u><i>Teucrium divaricatum</i></u>	Leaf	not available	90.0	0.0	Arnold, N., Bellomaria, B., Valentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<u><i>Teucrium kotschyanum</i></u>	Leaf	not available	640.0	3.4	Arnold, N., Bellomaria, B., Valentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<u><i>Teucrium micropodioides</i></u>	Leaf	not available	20.0	-0.4	Arnold, N., Bellomaria, B., Valentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some <i>Teucrium</i> Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.
<u><i>Teucrium pseudoscorodonia</i></u>	Shoot	not available	2.5	-0.4	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9.

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Teucrium salviastrum</u>	Shoot	not available	1.6	-0.4	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.
<u>Thymus cilicicus</u>	Shoot	not available	47.0	0.0	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.
<u>Thymus riatarum</u>	Shoot	not available	0.1	-0.4	Iglesias, J., Vila, R., Canigueral, S., Bellakdhar, and II Idrissi, A. 1991. Analysis of the Essential Oil of Thymus riatarum. J. Ess. Oil Res. 3: 43-4.
<u>Micromeria fruticosa</u>	Shoot	not available	10.0	-0.3	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.
<u>Micromeria fruticosa</u>	Shoot	not available	10.0	-0.3	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.
<u>Nepeta racemosa</u>	Shoot	not available	50.0	0.0	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Nepeta racemosa</u>	Shoot	not available	50.0	0.0	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of <i>Nepeta racemosa</i> Lam. J. Ess. Oil Res. 5: 215-7.
<u>Origanum vulgare</u>	Plant	not available	2.0	-0.5	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
<u>Origanum vulgare</u>	Plant	not available	9.0	-0.5	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
<u>Origanum vulgare</u>	Plant	not available	8.0	-0.5	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
<u>Teucrium oxylepis</u>	Shoot	not available	0.3	-0.4	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.
<u>Teucrium oxylepis</u>	Shoot	not available	2.9	-0.4	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Teucrium scorodonia</u>	Shoot	not available	4.9	-0.4	Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.
<u>Thymus longicaulis</u>	Shoot	not available	9.0	-0.4	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.
<u>Thymus longicaulis</u>	Shoot	not available	0.0	-0.4	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.
<u>Thymus longicaulis</u>	Shoot	not available	9.0	-0.4	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.
<u>Micromeria varia</u>	Shoot	not available	0.0	-0.4	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.
<u>Micromeria varia</u>	Shoot	0.0	not available	not available	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Thymus x citriodorus</u>	Plant	not available	20.0	-0.4	Stahl-Biskup, E. and Holthuijzen, J. 1995. Essential oil and glycosidally bound volatiles of lemon-scented thyme, <i>Thymus x citriodorus</i> (Pers.) Schreb. <i>Flav. & Fragr. J.</i> 10: 225-229.
<u>Thymus funkii</u>	Shoot	not available	8.0	-0.4	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383.
<u>Thymus funkii</u>	Shoot	not available	8.0	-0.4	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383.
<u>Boswellia sacra</u>	Resin, Exudate, Sap	not available	10000.0	not available	Chiavari, G., Galletti, G. C., Piccaglia, R., Mohamud, M. A. 1991. Differentiation Between Resins <i>Boswellia carterii</i> and <i>Boswellia frereana</i> (<i>Frankincense</i>) of Somali Origin. <i>J. Essent. Oil Res.</i> 3 (3):185-186.
<u>Agastache rugosa</u>	Shoot	not available	not available	not available	Jim Duke's personal files.
<u>Stevia rebaudiana</u>	Flower	not available	not available	not available	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
<u>Stevia rebaudiana</u>	Leaf	not available	not available	not available	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Lonicera japonica</u>	Flower	0.0	0.1	-0.8	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.
<u>Panax ginseng</u>	Flower Essent. Oil	not available	not available	not available	Duke, 1992 *
<u>Panax ginseng</u>	Shoot	not available	not available	not available	Duke, 1992 *
<u>Pelargonium citrosum</u>	Shoot	not available	1.0	-0.4	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.
<u>Mentha spicata</u>	Essential Oil	not available	not available	not available	Duke, 1992 *
<u>Hypericum perforatum</u>	Plant	0.3	4.5	-0.5	Duke, 1992 *
<u>Perilla frutescens</u>	Shoot Essent. Oil	not available	12000.0	1.3	Nguyen, X. D., La, D. M., Lu'u, D. C., Leclercq, P. A. 1995. Essential Oil Constituents from the Aerial Parts of Perilla frutescens (L.) Britton. J. Essent. Oil Res., 7(4): 429-432.
<u>Ocimum basilicum</u>	Shoot Essent. Oil	not available	3800.0	-1.2	Duke, 1992 *
<u>Origanum vulgare</u>	Shoot Essent. Oil	not available	7500.0	-0.1	Duke, 1992 *
<u>Salvia officinalis</u>	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Syzygium aromaticum</u>	Leaf	not available	not available	not available	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
<u>Callicarpa americana</u>	Leaf	not available	3.0	-0.5	Duke, 1992 *