

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**List of Plants for MENTHOL**

<b>Plant</b>	<b>Part</b>	<b>Low PPM</b>	<b>High PPM</b>	<b>StdDev</b>	<b>Reference</b>
Achillea millefolium	Plant	--	--		--
Acinos suaveolens	Shoot	3	3	-0.6414348966484517	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.
Acorus calamus	Rhizome	--	--		Pakistan Encyclopedia Planta Medica. 1986.
Agathosma betulina	Leaf Essent. Oil	--	--		--
Artemisia annua	Plant	--	--		--
Artemisia dracunculus	Shoot	50	500	0.10999266642586884	--
Artemisia dracunculus	Essential Oil	--	--		--
Brassica oleracea var. capitata l.	Plant	--	--		--
Brassica oleracea var. capitata l.	Leaf	--	--		--
Calamintha nepeta	Leaf	1	1	-0.6077084517963512	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.
Calamintha nepeta	Plant	290	290	-0.4235767522138178	J. Ethnopharmacology, 39: 167.
Camellia sinensis	Leaf	--	--		--
Cocos nucifera	Fruit	--	--		Jim Duke's personal files.
Cymbopogon nardus	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Elytrigia repens	Plant	15	20	-0.6245205427971803	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Elytrigia repens	Rhizome	--	18	1	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Eucalyptus citriodora	Leaf Essent. Oil	--	--		--
Glechoma hederacea	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Hedeoma drummondii	Plant	10	10	-0.6319629054113789	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hedeoma pulegioides	Plant	6	30	-0.6170781801829817	--
Hedeoma pulegioides	Essential Oil	--	--		--
Hedeoma pulegioides	Pollen Or Spore	--	1000		--
Helianthus annuus	Flower Essent. Oil	235000	310000		--
Hyptis suaveolens	Plant	--	--		Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Juniperus communis	Fruit	22	22		--
Juniperus communis	Fruit Essent. Oil	--	--		--
Levisticum officinale	Root	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Mentha aquatica	Leaf	3570	3570	-0.19360438419646248	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Mentha aquatica	Shoot	1	1	-0.6444587500209842	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Shoot	--	--		Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Shoot	--	3	-0.6414348966484517	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Shoot	--	--		Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Shoot	--	1	-0.6444587500209842	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha arvensis var. piperascens	Leaf	1000	24385	2.2215192266445816	--
Mentha longifolia	Shoot	0	620	0.29142386877781745	--
Mentha pulegium	Plant	--	3780	2.1738078001414967	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha pulegium	Essential Oil	1000	478000	1	--
Mentha pulegium	Shoot	--	--		--
Mentha sp	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Mentha spicata	Leaf	0	375	-0.5643139655866684	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Mentha spicata	Leaf	8	200	-0.5846188722355842	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha spicata	Essential Oil	0	15000	-1	--
Mentha x piperita	Leaf	156	6750	1.712736280041748	--
Mentha x rotundifolia	Leaf	0	80	-0.5985422367948408	--
Micromeria fruticosa	Leaf	3030	3030	-0.25625952471311697	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.
Micromeria fruticosa	Shoot	85	85	-0.5174569083746201	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	--	85	-0.5174569083746201	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 thymifolia	Leaf	45	45	-0.6026032181246239	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.
Minthostachys mollis	Shoot	120	215	-0.3209064391600091	Alkire, B.H., Tucker, A.O., and Maciarelo, M.J. 1994. Tipo (Minthostachys mollis (Lamiaceae): An Ecuadorian Mint. Econ. Bot. 48(1): 60-64.
Ocimum basilicum	Plant	4	32	-0.6155897076601419	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Ocimum basilicum	Essential Oil	--	--		--
Ononis spinosa	Root	--	--		--
Origanum majorana	Essential Oil	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pelargonium graveolens	Plant	2	1852	0.738920288124005	--
Psidium guajava	Leaf Essent. Oil	--	--		--
Pycnanthemum beadleii	Shoot	140	140	-0.434300940629977	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum clinopodioides	Shoot	168	176	-0.3798715799243924	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum incanum	Shoot	22	798	0.5605468189332079	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum montanum	Shoot	28	32	-0.5975890227467308	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum muticum	Shoot	87	450	0.034396332112556924	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum pilosum	Flower	142	700		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum pilosum	Leaf	142	700	-0.5266048532386818	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum setosum	Shoot	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum tenuifolium	Shoot	62	620	0.29142386877781745	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum virginianum	Shoot	18	3016	3.914000209071725	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Rheum palmatum	Rhizome	--	0.5	-1	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rhododendron dauricum	Plant	--	--		--
Salvia officinalis	Leaf	--	--		--
Salvia officinalis	Plant	--	--		--
Sambucus nigra	Flower Essent. Oil	--	--		--
Satureja grandiflora	Shoot	420	420	-0.010961468475430228	Carnat, A., Chossegros, A., and Lamaison, J. 1991. The Essential Oil of Satureja grandiflora (L.) Scheele from France. J. Ess. Oil Res., 3: 361-362
Satureja odora	Shoot	0	0	-0.6459706767072504	Zygodlo, J.A., Merino. E.F., Maestri, D.M., Guzman, C.A. and Espinar, L.A. 1993. The Essential Oils of Satureja odora and Satureja parvifolia from Argentina. J. Ess. Oil Res. 5: 549-51.
Satureja parvifolia	Shoot	1010	1010	0.8810752764216505	Zygodlo, J.A., Merino. E.F., Maestri, D.M., Guzman, C.A. and Espinar, L.A. 1993. The Essential Oils of Satureja odora and Satureja parvifolia from Argentina. J. Ess. Oil Res. 5: 549-51.
Sideritis scardica	Shoot	370	370	-0.08655780278874216	Menkovic, N., et al. 1991. The Essential Oil of Sideritis scardica. Pl. Med. 57. Suppl. 2. pp. A137-A132.
Zea mays	Leaf	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Zea mays	Silk Stigma Style	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.