

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Mentha longifolia*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EO	Plant	10000.0	38000.0	2.147804028759002	--
53	LINALOOL	Shoot	10.0	33360.0	1.0005419775185522	--
0	LINALOL	Shoot	10.0	33360.0	5.831890498983289	--
7	PIPERITONE	Shoot	0.0	30400.0	5.6949532593088605	--
0	PIPERITONE-OXIDE	Shoot	5700.0	30400.0	1.4130369257695679	--
19	CARVONE	Shoot	0.0	29560.0	5.1429437483451235	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
57	ROSMARINIC-ACID	Plant		29000.0	0.038348584928534366	--
0	TRANS-PIPERITONE-OXIDE	Shoot	80.0	26900.0	1.4132300020851452	--
28	PULEGONE	Shoot	0.0	26600.0	-0.059281243922669244	--
2	PIPERITENONE-OXIDE	Shoot	1.0	22380.0	2.635518112325883	--
3	ISOMENTHONE	Shoot	0.0	16065.0	2.323453721592974	--
5	MENTHOFURAN	Shoot	0.0	14570.0	2.447922371975267	--
0	ROTUNDIFOLINE	Shoot	3320.0	12615.0		--
67	1,8-CINEOLE	Shoot	30.0	10930.0	0.021156215665233555	--
31	CARYOPHYLLENE	Shoot	110.0	9995.0	4.379447073242362	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	PIPERITENONE	Shoot	1.0	9920.0	3.3658952187586366	--
0	CIS-PIPERITONE-OXIDE	Shoot	1.0	9765.0	1.4051805941396913	--
2	GERMACRENE-D	Shoot	140.0	8850.0	4.5910282751920635	--
0	TRANS-DIHYDROCARVONE	Shoot	0.0	6965.0	2.524203703379644	--
0	CIS-DIHYDROCARVONE	Shoot	0.0	5090.0	-0.0755247022830521	--
30	MENTHONE	Shoot	0.0	4485.0	-0.05903408796777609	--
0	BETA-CARYOPHYLLENE	Shoot	30.0	4155.0	8.013638481250267	--
1	DIHYDROCARVYL-ACETATE	Shoot	0.0	3570.0	1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	1,2-EPOXYNEOMENTHYL-ACETATE	Shoot	1.0	3190.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	DIHYDROCARVEOL	Shoot	1.0	3150.0	1.4142135623730951	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
60	LIMONENE	Shoot	7.0	3040.0	1.2190702567969351	--
0	TAU-CADINOL	Shoot	0.0	2700.0		Planta Medica, 57: A83, 1991.
2	3-OCTANOL	Shoot	1.0	2395.0	5.319914789020483	--
0	BETA-COPAENE	Shoot	0.0	1585.0		--
35	BORNEOL	Shoot	1.0	1250.0	0.8099246345244387	Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
23	ALPHA-TERPINEOL	Shoot	1.0	1175.0	0.9256745012139821	--
13	BETA-PINENE	Shoot	28.0	1160.0	-0.0398446940909524	--
0	SPATHULENOL	Shoot	0.0	1125.0	6.080240355798698	--
0	4-HYDROXY-PIPERITONE	Shoot	1.0	1065.0		--
28	ALPHA-PINENE	Shoot	7.0	1065.0	-0.04123398777705887	--
8	CARYOPHYLENE-OXIDE	Shoot	0.0	835.0	1.4318059365230096	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	TERPINEN-4-OL	Shoot	1.0	800.0	0.16443270447025435	--
5	SABINENE	Shoot	20.0	750.0	0.5026397896400224	--
3	CIS-OCIMENE	Shoot	1.0	685.0	2.6374819692309295	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	NEODIHYDROCARVEOL	Shoot	50.0	645.0	1.414213243437181	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
63	MENTHOL	Shoot	0.0	620.0	0.29142386877781745	--
0	ALPHA-TERPINENYL-ACETATE	Plant	0.0	605.0		Planta Medica, 57: A83, 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	4-HYDROXYPIPERITONE-OXIDE	Shoot	150.0	570.0		Fitoterapia No.60: 349.
22	MYRCENE	Shoot	17.0	550.0	0.2854137429610451	--
0	BETA-BOURBONENE	Shoot	1.0	535.0	4.321101307401028	--
0	CIS-CARVYL-ACETATE	Shoot	0.0	530.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	2-PENTADECANONE	Shoot	15.0	395.0		Planta Medica, 57: A83, 1991.
9	CAMPHENE	Shoot	0.0	385.0	-0.0987549654618178	--
0	ALLO-AROMADENDRENE	Shoot	0.0	380.0	0.3121646925060578	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ISODIHYDROCARVYL-ACETATE	Shoot	35.0	370.0		Planta Medica, 57: A83, 1991.
1	TRANS-CARVEOL	Shoot	1.0	340.0	-0.14188026442592658	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BETA-YLANGENE	Shoot	0.0	340.0	1.739887818061042	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CIS-BETA-FARNESENE	Shoot	28.0	325.0		Planta Medica, 57: A83, 1991.
0	NEODIHYDROCARVYL-ACETATE	Plant	0.0	315.0		Planta Medica, 57: A83, 1991.
0	ALPHA-CARYOPHYLLENE	Shoot	45.0	285.0	-0.23326606283137005	Planta Medica, 57: A83, 1991.
2	MENTHYL-ACETATE	Plant	43.0	275.0		Planta Medica, 57: A83, 1991.
5	BETA-ELEMENE	Shoot	0.0	275.0	0.5927988006074945	--
3	ALPHA-CADINOL	Shoot	34.0	250.0	3.6671319397513846	Planta Medica, 57: A83, 1991.
0	CIS-3-HEXENYL-2-METHYLBUTYRATE	Shoot	0.0	225.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BETA-CUBEBENE	Shoot	19.0	200.0	0.15529214839619873	Planta Medica, 57: A83, 1991.
1	ISOMENTHOL	Shoot	0.0	190.0	-0.6584710029748253	Planta Medica, 57: A83, 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	BORNYL-ACETATE	Shoot	1.0	175.0	-0.11715337786974139	Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
13	ALPHA-TERPINENE	Shoot	0.0	170.0	-0.004806475844184345	--
6	UMBELLULONE	Shoot	27.0	168.0	1.413905734276786	Planta Medica, 57: A83, 1991.
0	1-OCTEN-3-OL	Shoot	1.0	150.0	0.02798933004139073	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	DELTA-CADINENE	Shoot	0.0	140.0	0.9634066643685961	--
0	2-CARENE	Shoot	10.0	130.0	-1.0	Planta Medica, 57: A83, 1991.
0	OCTANYL-ACETATE	Shoot	0.0	125.0		Planta Medica, 57: A83, 1991.
0	CIS-CARVEOL	Shoot	10.0	115.0	-0.20432590278626614	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	GERANIOL	Shoot	1.0	115.0	-0.4373077769387356	Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
0	ISOPIPERITENONE	Shoot	1.0	115.0	2.062060258043236	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	MYRTENAL	Shoot	1.0	100.0	-0.1860343737134976	Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
0	ALPHA-FARNESENE	Shoot	18.0	100.0	1.4607834411202152	Planta Medica, 57: A83, 1991.
0	ISOMENTHYL-ACETATE	Shoot	0.0	95.0	-1.0	Planta Medica, 57: A83, 1991.
0	TRANS-FARNESOL	Shoot	0.0	85.0		Planta Medica, 57: A83, 1991.
0	ALPHA-YLANGENE	Shoot	0.0	85.0	1.4141951037901395	Planta Medica, 57: A83, 1991.
1	VIRIDIFLOROL	Shoot	0.0	85.0	0.28063481963637366	Planta Medica, 57: A83, 1991.
0	CIS-JASMONE	Shoot	0.0	85.0	1.3180106481034386	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRANS-SABINENE-HYDRATE	Shoot	1.0	80.0	-0.11758293122961287	Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
0	GAMMA-CADINENE	Shoot	1.0	75.0	-0.06623553837467899	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	ALPHA-PHELLANDRENE	Shoot	11.0	70.0	-0.13159795789038686	Planta Medica, 57: A83, 1991.
2	PHENYLETHYL-2-METHYLBUTYRATE	Shoot	1.0	60.0		Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
11	GAMMA-TERPINENE	Shoot	0.0	57.0	-0.35495130817227305	--
5	GERANYL-ACETATE	Shoot	1.0	45.0	-0.4289795641877345	Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
0	3-OCTYL-ACETATE	Shoot	0.0	40.0	1.413873784152749	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRANS-OCIMENE	Shoot	1.0	38.0	-0.0753209884097984	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ISOBUTANAL	Shoot	10.0	38.0		Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
2	MYRTENOL	Shoot	1.0	35.0	-0.19316706460982225	Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
0	OCTANOL	Shoot	1.0	34.0	2.2283528536386723	Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
0	3-CARENE	Shoot	0.0	30.0	1.42028408522841	Planta Medica, 57: A83, 1991.
16	P-CYMENE	Shoot	1.0	23.0	-0.4831699125902253	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	NONANAL	Shoot	1.0	22.0	2.3341311966504157	Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from <i>Mentha longifolia</i> Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
9	TERPINOLENE	Shoot	0.0	20.0	-0.22817845236300732	--
0	2-METHYL-BUTYL-2-METHYL-BUTYRATE	Shoot	0.0	20.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
71	THYMOL	Shoot	1.0	15.0	-0.3291951998363978	Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from <i>Mentha longifolia</i> Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
0	TRANS-CARVYL-ACETATE	Shoot		1.0	-0.624207579141803	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-GURJUNENE	Shoot	0.0	1.0	-1.0123402787476072	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	PIPERITOL	Plant				--
0	5-HYDROXYCHROMONE-7-RUTINOSIDE	Plant				--
0	ROTUNDIFOLINE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	APIGENIN-7-GLUCURONIDE	Plant				--
34	DIOSMIN	Plant				--
0	HESPERITIN-7-RUTINOSIDE	Plant				--
44	QUERCITRIN	Plant				--
0	ACACETIN-7-RUTINOSIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
76	EUGENOL	Shoot				--
31	HESPERIDIN	Plant				--

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4	DIOSPHEINOL	Shoot				--
0	HEDYOSMIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DIOSMETIN-7-RUTINOSIDE	Shoot				--
0	LUTEOLIN-7-RUTINOSIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	5,6,4'-TRIHYDROXY-7,3'-DIMETHOXYFLAVONE	Plant				--
3	LUTEOLIN-7-GLUCURONIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	5,5,4'-TRIHYDROXY-7,3'-DIMETHOXYFLAVONE	Plant				--
7	LUTEOLIN-7-GLUCOSIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	THYMONINE	Plant				--
0	ERIODICTYOL-7-RUTINOSIDE	Plant				--