

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

**Chemicals Found in *Mentha x rotundifolia***

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	(+)-PIPERITENONE-OXIDE	Leaf	8	8510	0.21660457816323453	
4	(+)-PULEGONE	Leaf	--	170	-1.0913088685243837	
0	(-)-CARVONE	Leaf	240	4000	-1.4054657656803624	
0	(-)-LIMONENE	Leaf	--	--		Jim Duke's personal files.
0	1,2-EPOXY-(1S,2S,3R,4S)-MENTHOL-ACETATE	Shoot	--	--		Jim Duke's personal files.
0	1,2-EPOXY-NEOMENTHOL-ACETATE	Leaf	6	7390		Jim Duke's personal files.
2	ALLO-CYMENE	Shoot	6	100		
11	ALPHA-PHELLANDRENE	Leaf	16	280	-0.1157515969939368	
28	ALPHA-PINENE	Leaf	4	430	-0.19662696795302403	
101	APIGENIN	Shoot	--	--		Jim Duke's personal files.
13	BETA-PINENE	Leaf	9	330	0.057617561175571895	
0	BORNEOL-ACETATE	Leaf	25	420		
102	CAFFEIC-ACID	Shoot	--	--		Jim Duke's personal files.
28	CALCIUM	Leaf	16300	16300	-0.14602852125117508	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
9	CAMPHERE	Leaf	--	20	-0.18513314196035818	
19	CARVONE	Leaf	260	5000	0.7424512374881553	
0	CINEOLE	Leaf	4	120	-0.9287166751577297	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	CITRAL	Shoot	9	150	1	
7	CYANIDIN	Shoot	--	--		Jim Duke's personal files.
9	DELPHINIDIN	Shoot	--	--		Jim Duke's personal files.
0	DIHYDROCARVONE	Leaf	--	--		Jim Duke's personal files.
4	DIOSPHENOL	Leaf	--	--		Jim Duke's personal files.
0	DIOSPHENOLENE	Leaf	--	--		Jim Duke's personal files.
0	EO	Leaf	600	10000	-0.13502102138741875	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	FAT	Seed	282000	282000	0.08750349917948941	
61	FERULIC-ACID	Shoot	--	--		Jim Duke's personal files.
0	ISONEOPULEGOL	Leaf	1	5200		
0	ISONEOPULEGOL-ACETATE	Leaf	43	720		
0	ISOPIPERITENONE	Leaf	80	1340	1	
60	LIMONENE	Leaf	14	500	0.07821612616499558	
60	LIMONENE	Leaf	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
78	LUTEOLIN	Shoot	--	--		Jim Duke's personal files.
1	LUTEOLINIDIN	Shoot	--	--		Jim Duke's personal files.
6	MASLINIC-ACID	Tissue Culture	--	--		Jim Duke's personal files.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	MENTHOFURAN	Leaf	--	--		Jim Duke's personal files.
63	MENTHOL	Leaf	--	80	-0.5985422367948408	
30	MENTHONE	Leaf	--	--	-0.6407179214882321	Jim Duke's personal files.
0	NEO-ISOPULEGOL	Leaf	314	5230	1	
0	OCTAN-3-OL	Leaf	5	822	-0.2280130629537027	
0	OCTAN-3-OL-ACETATE	Leaf	--	--		Jim Duke's personal files.
64	OLEANOLIC-ACID	Tissue Culture	--	--		Jim Duke's personal files.
25	P-COUMARIC-ACID	Shoot	--	--		Jim Duke's personal files.
16	P-CYMENE	Shoot	14	230	-0.3190752463210925	
7	PELARGONIDIN	Shoot	--	--		Jim Duke's personal files.
3	PETUNIDIN	Shoot	--	--		Jim Duke's personal files.
3	PIPERITENONE	Leaf	50	860	-0.07076105297504716	
2	PIPERITENONE-OXIDE	Leaf	306	8730	1.3195137209745322	
7	PIPERITONE	Leaf	44	730	0.027358453566463145	
0	PIPERITONE-OXIDE	Leaf	40	6020	0.894912423960152	
2	POMOLIC-ACID	Tissue Culture	--	--		Jim Duke's personal files.
14	POTASSIUM	Leaf	17100	17100	-0.5848288277160375	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Leaf	144000	144000	-0.6768199212206361	
0	PROTEIN	Seed	196000	196000	-0.33621559438038773	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	PULEGONE	Leaf	580	9720	0.5731544274593956	
57	ROSMARINIC-ACID	Plant	32000	32000	0.22073819617400384	Fitoterapia No.62: 166.
57	ROSMARINIC-ACID	Leaf	3600	3600	-0.5297661042998963	Jim Duke's personal files.
0	ROTUNDIFOLONE	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
1	SODIUM	Leaf	2520	2520	-0.19971556422983072	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
17	THUJONE	Leaf	20	360	-0.6776014516953232	
89	URSOLIC-ACID	Tissue Culture	--	--		Jim Duke's personal files.