

P **Mentha arvensis var. piperascens**

Common Name(s)

Cornmint, Field Mint, Japanese Mint

How Used

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Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	(+)-1,2-EPOXYNEOMENTHYL-ACETATE	Leaf	--	5000		
0	(+)-8-ACETOXY-CARVONE	Essential Oil	--	--		Jim Duke's personal files.
2	(+)-CARVONE	Essential Oil	--	--		Jim Duke's personal files.
0	(+)-ISOMENTHONE	Leaf	240	7062	1.2644952641479401	
0	(+)-MENTHOFURAN	Leaf	32	32	-0.7587175787128734	
0	(+)-MENTHYL-ACETATE	Leaf	300	1900		
0	(+)-NEOMENTHOL	Leaf	1100	2200	0.9156775285682353	
0	(+)-OCTAN-3-ONE	Leaf	9000	27000		
0	(+)-PIPERITENONE	Leaf	400	700		
1	(+)-PIPERITENONE-OXIDE	Leaf	--	2900	-1.0692702191867607	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	(+)-PIPERITONE	Leaf	--	1400		
4	(+)-PULEGONE	Leaf	1100	8400	1.6412173114963589	
4	(+)-PULEGONE	Plant	--	25455	1	
3	(-)-BORNEOL	Leaf	500	600		
0	(-)-CARVONE	Leaf	--	7300	0.8387456988737643	
0	(-)-CARVONE	Essential Oil	--	--		Jim Duke's personal files.
0	(-)-LIMONENE	Leaf	--	1600	0.6735227011412723	
0	(-)-LINALOOL	Leaf	3900	4000	0.737154384403507	
0	(-)-LINALYL-ACETATE	Leaf	--	--	-1	
4	(-)-MENTHOL	Leaf	1500	9600	-0.13664468500079888	
0	(-)-MENTHOL-ACETATE	Leaf	10	32		
2	(-)-MENTHONE	Leaf	500	4400	-0.41193606418331424	
0	(-)-PIPERITENONE-OXIDE	Leaf	3330	10595		
1	(-)-PIPERITONE	Leaf	240	7700	1	
67	1,8-CINEOLE	Leaf	--	--		Jim Duke's personal files.
0	1-P-MENTHEN-3-ONE	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	3',4',5,7-TETRAHYDROXY-FLAVONE-7-ALPHA-L-RHAMNOSYL-BETA-D-GLUCOSIDE	Shoot	--	--		Jim Duke's personal files.
0	3',5,7-TRIHYDROXY-4'-METHOXY-FLAVONE-O-BETA-D-GLUCOSIDE	Shoot	--	--		Jim Duke's personal files.
0	3(5',5'-DIMETHYL-TETRAHYDROFURAN-2'-YL)-BUT-CIS-2-EN-1-OL	Essential Oil	1.4	1.4	-0.7074110008631054	Jim Duke's personal files.
0	3(5',5'-DIMETHYL-TETRAHYDROFURAN-2'-YL)-BUT-CIS-2-EN-1-OL	Plant	--	1.4		
0	3-METHYLPENTANOL	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	4',5,7-TRIHYDROXY-FLAVONE-7-ALPHA-L-RHAMNOSYL-BETA-D-GLUCOSIDE	Shoot	--	--		Jim Duke's personal files.
0	4',5,7-TRIHYDROXY-FLAVONE-O-BETA-D-GLUCOSIDE	Shoot	--	--		Jim Duke's personal files.
0	ACACETIN-7-O-BETA-D-GLUCOSIDE	Shoot	--	--		Jim Duke's personal files.
16	ACETIC-ACID	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	ACETYLMENTHOL	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	ALPHA,BETA-HEXENIC-ACID	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	ALPHA,GAMMA-HEXENYL-PHENYL-ACETATE	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
28	ALPHA-PINENE	Plant	10	300	-0.26916907964228254	
0	ALPHA-THUJENE	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	ANISALDEHYDE	Shoot	--	--		Jim Duke's personal files.
0	BETA-CAR-3-ENE	Essential Oil	--	--		Jim Duke's personal files.
0	BETA-CARYOPHYLLENE	Leaf	--	700	0.007903496850210601	

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
3	BETA-PHELLANDRENE	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	BETA-PINENE	Plant	10	1445	1.124729385882718	
13	BETA-PINENE	Leaf	--	800	0.7508636062406463	
28	CALCIUM	Plant	13500	13500	-0.009562051564718019	Suziki, A., Morimoto, I., and Okitzu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
9	CAMPHENE	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
1	CAPROIC-ACID	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	CARVOMENTHONE	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
19	CARVONE	Essential Oil	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
19	CARVONE	Leaf	8100	26000	5.048754540985525	
31	CARYOPHYLLENE	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	CHLOROPHYLL-A	Tissue Culture	--	--		Jim Duke's personal files.
0	CHLOROPHYLL-B	Tissue Culture	--	--		Jim Duke's personal files.
0	CINEOLE	Leaf	40	1785	-0.6151264776039638	
0	CIS-ISOPULEGONE	Leaf	--	--		Jim Duke's personal files.

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
3	CIS-OCIMENE	Essential Oil	--	--		Jim Duke's personal files.
12	COPPER	Plant	20	20	0.6626022066114992	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
0	D-3-OCTANOL	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	DIOSMETIN-7-O-BETA-D-GLUCOSIDE	Shoot	--	--		Jim Duke's personal files.
0	DL-ISOMENTHONE	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	EO	Plant	10000	32100	1.699414490711653	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	EO	Plant	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	ETHYL-AMYL-CARBINOL	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
76	EUGENOL	Essential Oil	--	--		Jim Duke's personal files.
13	FORMIC-ACID	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
6	FURFURAL	Plant	2	5	-0.4983416206388216	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
11	GAMMA-TERPINENE	Essential Oil	--	--		Jim Duke's personal files.
11	GAMMA-TERPINENE	Leaf	--	900	1.36337998309933	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	GERMACRENE-D	Essential Oil	--	--		Jim Duke's personal files.
2	GERMACRENE-D	Leaf	300	400	-0.20129073177947823	
31	HESPERIDIN	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	IRON	Plant	400	400	-0.2672486162776693	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
1	ISOMENTHOL	Essential Oil	--	--		Jim Duke's personal files.
3	ISOMENTHONE	Leaf	300	600	-0.4825959961896006	
3	ISOPULEGOL	Essential Oil	--	--		Jim Duke's personal files.
4	ISOPULEGONE	Leaf	240	770	-1.4142135623730947	

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
1	ISOVALERALDEHYDE	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
5	ISOVALERIC-ACID	Plant	30	90	1	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	KETONES	Plant	336	1008		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
3	L-MENTHOL	Plant	373	29515		
2	L-MENTHYL-ACETATE	Plant	85	4200		
60	LIMONENE	Leaf	20	3520	3.2552582140948236	
0	LINALOL	Leaf	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	LINALOL-ACETATE	Leaf	690	2215		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
53	LINALOOL	Leaf	--	--		Jim Duke's personal files.
0	LINALOOL-ACETATE	Leaf	690	2215		
78	LUTEOLIN	Shoot	--	--		Jim Duke's personal files.
65	MAGNESIUM	Plant	2830	2830	-0.38378745316107926	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
14	MANGANESE	Plant	44	44	-0.3795487464259209	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
5	MENTHOFURAN	Plant	4200	12600	1.6912182092538641	

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	MENTHOFUROLACTONE	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
63	MENTHOL	Leaf	1000	24385	2.2215192266445816	
0	MENTHOL-ACETATE	Leaf	60	2215	1	
30	MENTHONE	Leaf	250	25680	2.6118994892791703	
30	MENTHONE	Plant	71	24000	3.4108177532842308	
0	MENTHONONE	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
22	MYRCENE	Leaf	10	2485	0.7240430590989703	
0	NEOISOMENTHOL	Essential Oil	--	--		Jim Duke's personal files.
0	NEOISOPULEGONE	Essential Oil	--	--		Jim Duke's personal files.
0	OCTAN-3-OL	Leaf	--	10200	2.4424856936312707	
16	P-CYMENE	Leaf	9	29	-0.3760203807398916	
0	P-CYMOL	Leaf	562	1800	0.1584093813492088	

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	P-MENTHAN-TRANS-2,5-DIOL	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	PIPERITENONE	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
2	PIPERITENONE-OXIDE	Leaf	260	7320	0.8759003813049827	
7	PIPERITONE	Leaf	13	1285	0.3195633749094698	
7	PIPERITONE	Leaf	240	7700	3.6970310693516097	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	PIPERITONE-OXIDE	Leaf	320	5135	0.5008838193806822	

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	PIPERITONE-OXIDE	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
14	POTASSIUM	Plant	35100	35100	0.9277235520248976	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
28	PULEGONE	Plant	100	24960	2.11770459496291	
1	RAFFINOSE	Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	RESIN	Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
57	ROSMARINIC-ACID	Plant	28000	28000	-0.022447952153288788	Fitoterapia No.62: 166.
57	ROSMARINIC-ACID	Leaf	71	228	-0.9802701242157968	
0	SABINENE-HYDRATE	Leaf	30	160	-0.3730620025303552	
0	SANTENE	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	SH	Plant	--	--		
1	SODIUM	Plant	860	860	-0.25647164723432153	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
1	STACHYOSE	Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
35	TANNIN	Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
17	THUJONE	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TRANS-ISOPULEGONE	Leaf	--	--		Jim Duke's personal files.
0	TRANS-OCIMENE	Essential Oil	--	--		Jim Duke's personal files.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
77	ZINC	Plant	28	28	-0.23812799612849617	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.