

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Monarda citriodora*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
71	THYMOL	Leaf		3550.0	1.5118100961384702	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
71	THYMOL	Flower		6175.0		Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
71	THYMOL	Plant	6269.0	8337.0	0.4552467167786814	--
67	1,8-CINEOLE	Plant	85.0	614.0	-0.38931856049519253	--
67	1,8-CINEOLE	Leaf		40.0	-0.5250794655442623	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
67	1,8-CINEOLE	Flower		20.0	-0.45105796568561957	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
60	LIMONENE	Plant	89.0	90.0	-0.43049106807161513	--
60	LIMONENE	Leaf		35.0	-0.41096419532088846	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Flower		40.0	-0.6078377072564232	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
53	CITRAL	Plant				--
47	BETA-SITOSTEROL	Plant				--
37	CARVACROL	Leaf		250.0	-0.19008225619254485	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
37	CARVACROL	Flower		385.0		Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
37	CARVACROL	Plant		316.0	-0.8230777410508652	--
28	ALPHA-PINENE	Plant	25.0	214.0	-0.33003023607513726	--
28	ALPHA-PINENE	Leaf		65.0	-0.22032442780749886	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
28	ALPHA-PINENE	Flower		115.0	0.11517907784332812	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
23	ALPHA-TERPINEOL	Plant		11.0	-0.47193740895738123	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Leaf		0.1	-0.5900733142318365	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
23	ALPHA-TERPINEOL	Flower		55.0	-0.46686205335078707	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
23	TERPINEN-4-OL	Leaf		145.0	-0.2575288594513397	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
23	TERPINEN-4-OL	Flower		75.0	-0.19686780421513225	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
22	MYRCENE	Leaf		15.0	-0.1672627571519293	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
22	MYRCENE	Plant		14.0	-0.4607214756183543	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	MYRCENE	Flower		205.0	1.9870911593986225	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
16	P-CYMENE	Plant	859.0	1038.0	-0.15005047418255463	--
16	P-CYMENE	Leaf		1600.0	0.9291614108463718	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
16	P-CYMENE	Flower		420.0	1.0348040534300105	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
13	ALPHA-TERPINENE	Leaf		120.0	-0.25035415111872744	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
13	ALPHA-TERPINENE	Flower		320.0	1.4109835651403249	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Leaf		50.0	-0.355380082692983	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
13	BETA-PINENE	Flower		0.1	-0.612221913488214	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
12	BORNYL-ACETATE	Plant	48.0	185.0	-0.35070421011869296	--
11	GAMMA-TERPINENE	Leaf		0.1	-0.3717303114340209	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
11	GAMMA-TERPINENE	Flower		1330.0	1.7187845800394497	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
11	GAMMA-TERPINENE	Plant		29.0	-0.5221670202351094	--
9	CAMPHENE	Plant	6.0	25.0	-0.5630598619591108	--
8	THYMOHYDROQUINONE	Plant				--
7	LINALYL-ACETATE	Plant		24.0	-0.5665269355922778	--
3	ISOMENTHONE	Plant		34.0	-0.7029045453650523	--
2	3-OCTANOL	Plant	124.0	201.0	-0.23625666458987474	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-CARYOPHYLLENE	Leaf		50.0	-0.31034851596039736	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
0	BETA-CARYOPHYLLENE	Flower		50.0	-0.5275896773354433	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
0	3-OCTYL-ACETATE	Plant	26.0	97.0	-0.541717929364044	--
0	LINALOL	Plant		47.0	-0.4215896353325941	--
0	EO	Leaf		7000.0	-0.39890044792521095	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
0	EO	Shoot		10000.0	-0.027439288511147023	--
0	EO	Flower		10000.0	-0.09040057685018825	Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9.
0	DIHYDROCARVEOL-ACETATE	Plant		11.0	-0.678521602332683	--
0	TRIACONTANE	Shoot				--