

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Tagetes minuta*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	(5E)-OCIMENONE	Plant				Abstract (See species file)
67	1,8-CINEOLE	Plant	47.0	125.0	-0.526576510085783	--
0	2,2',2'',5'-TERTHIOPHENE	Flower Essent. Oil				--
0	2,3,5-TRIMETHYLFURAN	Fruit Essent. Oil		18900.0		--
0	2,6-DIMETHYL-7-OCTEN-4-ONE	Plant	93.0	500.0		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	2-HEXEN-1-AL	Plant	65.0	175.0		--
0	3,7-DIMETHYL-OCT-1-EN-6-ONE	Flower Essent. Oil		5.6		--
0	3,7-DIMETHYL-OCTA-1,7-DIEN-6-ONE	Flower Essent. Oil		7.0		--
2	5-(3-BUTEN-1-YNYL)-2,2'-BITHIENYL	Plant				--
0	5-(4-CHLORO-3-HYDROXYBUT-1-YNYL)-2,2'-BITHIENYL	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	5-(BUT-3-EN-1-YNYL)-2,2'-BITHIENYL	Plant				--
0	5-HYDROXY-3,7-DIEMTHYL-OCT-1-EN-6-ONE	Flower Essent. Oil				--
0	5-ISOBUTYL-3-METHYLFURAN-2-CARBALDEHYDE	Essential Oil		1000.0		--
0	5-METHYL-2,2',2'',5'-TERTHIOPHENE	Flower Essent. Oil				--
0	5-METHYL-ALPHA-TERTHIENYL	Flower Essent. Oil		2000.0		--
16	ACETIC-ACID	Essential Oil				--
0	ACETIC-ACID-2-METHYL-BUTYL-ESTER	Fruit Essent. Oil		2300.0		--
0	ALPHA-COPAENE	Essential Oil		1000.0	-0.5679033734252681	--
2	ALPHA-HUMULENE	Flower Essent. Oil		4000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	ALPHA-PINENE	Leaf Essent. Oil				Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
28	ALPHA-PINENE	Flower Essent. Oil		100.0	-1.0	--
28	ALPHA-PINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
28	ALPHA-PINENE	Essential Oil		10300.0	-0.4694352163298297	--
23	ALPHA-TERPINEOL	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
10	ALPHA-TERTHIENYL	Root				Downum, K. R., Towers, G. H. N. 1983. Analysis of Thiophenes in the Tageteae (Asteraceae) by HPLC. J. Nat. Prod. 46 1: 98-103. Dept. Botany Univ. British Columbia Vancouver BC V6T 1W5 Canada
10	ALPHA-TERTHIENYL	Flower Essent. Oil		3600.0		--
0	ALPHA-THUJENE	Essential Oil		800.0	-0.3954227110609452	--
3	AROMADENDRENE	Ge	324.0	925.0		--
3	AROMADENDRENE	Plant	324.0	925.0	1.7318445510029972	--
0	BETA-CARYOPHYLLENE	Fruit Essent. Oil		5800.0	-0.6397785658600676	--
13	BETA-EUDES MOL	Leaf Essent. Oil		10000.0	-1.0	Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
2	BETA-MYRCENE	Plant	374.0	1000.0	1.0	--

Activities Count	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.
3	BETA-PHELLANDRENE	Leaf Essent. Oil				Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
3	BETA-PHELLANDRENE	Shoot Essent. Oil				--
13	BETA-PINENE	Leaf Essent. Oil				Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
13	BETA-PINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	BETA-PINENE	Essential Oil		14800.0	-0.4017613642678912	--
0	BETA-TAGETONE	Shoot Essent. Oil				--
35	BORNEOL	Essential Oil		6500.0	-0.8514325616391961	--
0	BUTYRIC-ACID-2-METHYL-ETHYL-ESTER	Fruit Essent. Oil		16500.0		--
9	CAMPHENE	Essential Oil				--
1	CARVEOL	Essential Oil		8500.0		--
19	CARVONE	Fruit Essent. Oil		7700.0	-0.6921983533349608	--
19	CARVONE	Essential Oil		8800.0	-0.8252268577968479	--
31	CARYOPHYLLENE	Flower Essent. Oil		5200.0		--
0	CINERIN-I	Tissue Culture				--
0	CINERIN-II	Tissue Culture				--
3	CIS-OCIMENE	Essential Oil		513200.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CIS-OCIMENE	Flower Essent. Oil		283500.0		--
0	CIS-OCIMENONE	Fruit Essent. Oil		91500.0		--
0	CIS-OCIMENONE	Essential Oil		61700.0		--
0	CIS-OCIMENONE	Leaf Essent. Oil		321000.0		Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
0	CIS-OCIMENONE	Flower Essent. Oil		100000.0		--
0	CIS-TAGETENONE	Fruit Essent. Oil	132200.0	137600.0		--
0	CIS-TAGETENONE	Shoot Essent. Oil				--
0	CIS-TAGETENONE	Flower Essent. Oil	1300.0	132200.0		--
0	CIS-TAGETONE	Fruit Essent. Oil	87800.0	246200.0		--
0	CIS-TAGETONE	Flower Essent. Oil	70000.0	271500.0		--
0	CIS-TAGETONE	Shoot Essent. Oil		141000.0		--
0	CIS-TAGETONE	Essential Oil		41700.0		--
0	CIS-TAGETONE	Leaf Essent. Oil		20000.0		Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
53	CITRAL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
53	CITRAL	Essential Oil				--
0	CYMENE	Plant				--
0	D-CADINENE	Flower Essent. Oil		200.0		--
7	D-CARVONE	Plant	122.0	325.0		--
19	D-LIMONENE	Plant	56.0	425.0	-0.4885256071430556	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	DECAN-1-AL	Fruit Essent. Oil		2800.0		--
0	DECAN-1-OL	Flower Essent. Oil		800.0	-1.0	--
0	DECAN-1-OL-ACETATE	Flower Essent. Oil		800.0		--
0	DELTA-ELEMENE	Flower Essent. Oil		700.0		--
0	DIHYDRO-TAGETONE	Leaf Essent. Oil				--
0	DIHYDRO-TAGETONE	Fruit Essent. Oil	154300.0	166200.0		--
0	DIHYDRO-TAGETONE	Flower Essent. Oil	90700.0	480900.0		--
0	DIHYDRO-TAGETONE	Essential Oil	77300.0	990000.0		--
0	DIHYDRO-TAGETONE	Shoot Essent. Oil		300000.0		--
0	DIHYDROCARVONE	Essential Oil		9100.0	-0.482867976917054	--
0	DIHYDROTAGETENONE	Flower Essent. Oil		44000.0		--
3	ELEMENE	Fruit Essent. Oil		6900.0		--
0	EO	Shoot Essent. Oil				--
0	EO	Plant	1870.0	5000.0	-0.36013745523464397	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	EUDESMOL	Plant	41.0	110.0	-1.0	--
1	EUGENOL-ACETATE	Leaf Essent. Oil				Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
13	FORMIC-ACID	Essential Oil				--
0	FUMARIC-ACID-MONOMETHYLESTER	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GAMMA-ELEMENE	Essential Oil		700.0		--
11	GAMMA-TERPINENE	Flower Essent. Oil		100.0		--
11	GAMMA-TERPINENE	Essential Oil		4300.0	-0.7634064999488264	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	GERANIOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GERMACRENE-B	Flower Essent. Oil		11200.0		--
2	GERMACRENE-D	Flower Essent. Oil		1900.0		--
0	GLOBULOL	Flower Essent. Oil		1200.0		--
0	HEPTAN-1-AL	Leaf Essent. Oil				Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
0	HEXAN-1-AL	Leaf Essent. Oil				Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
11	ISORHAMNETIN	Leaf				--
0	JASMOLIN-I	Tissue Culture				--
0	JASMOLIN-II	Tissue Culture				--
0	L-LINALOL	Plant	1.0	175.0	-0.17946446333066804	--
0	L-LINALOOL	Plant	1.0	175.0	-0.38254777872090373	--
60	LIMONENE	Leaf Essent. Oil		200000.0	0.20584956866150136	Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
60	LIMONENE	Fruit Essent. Oil	213100.0	353200.0	-0.32654836924013236	--
60	LIMONENE	Flower Essent. Oil	166300.0	353200.0	0.7456036872623704	--
60	LIMONENE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Shoot Essent. Oil		83000.0	-0.06856978436527997	--
0	LINALOL-MONOXIDE	Plant	93.0	250.0		--
0	LINALOOL-MONOXIDE	Plant	93.0	250.0		--
7	LINALYL-ACETATE	Plant	34.0	125.0	-0.5179577333431766	--
0	MONOMETHYLFUMARATE	Shoot				--
2	OCIMENE	Plant	280.0	1500.0	0.3961170617858969	--
0	OCIMENONE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OCTAN-1-AL	Fruit Essent. Oil		6200.0		--
0	OCTAN-1-OL	Flower Essent. Oil		1900.0		--
0	OCTAN-1-OL	Fruit Essent. Oil		2600.0	1.0	--
18	OLEIC-ACID	Seed Oil		16.0	-1.6780330457687065	--
16	P-CYMENE	Plant				--
16	P-CYMENE	Flower Essent. Oil		100.0		--
13	PALMITIC-ACID	Seed Oil		216400.0	0.22973165000663703	--
2	PATULETIN	Leaf				--
2	PATULETIN	Shoot				--
0	PATULETIN-7-O-BETA-D-GLUCOSIDE	Leaf				--
0	PATULETIN-7-O-BETA-D-GLUCOSIDE	Shoot				--
0	PATULETRIN	Shoot				--
0	PATULETRIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PATULITRIN	Tissue Culture				--
4	PELLANDRENE	Flower Essent. Oil		1700.0		--
2	PHENYL-ACETALDEHYDE	Plant	65.0	175.0		--
0	PHENYL-ETHYL-ALCOHOL	Plant	288.0	770.0	1.39670970884395	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PHENYLETHANOL	Essential Oil				--
7	PIPERITONE	Fruit Essent. Oil		4100.0	1.0	--
0	PROPIONIC-ACID-2-METHYL-ETHYL-ESTER	Fruit Essent. Oil		3300.0		--
2	PYRETHRIN-I	Tissue Culture				--
2	PYRETHRIN-II	Tissue Culture				--
8	QUERCETAGETIN	Leaf				--
8	QUERCETAGETIN	Shoot				--
0	QUERCETAGETIN-3-ARABINO-GALACTOSIDE	Shoot				--
0	QUERCETAGETIN-3-ARABINOSYL-GALACTOSIDE	Leaf				--
0	QUERCETAGETIN-7-O-BETA-GLUCOSIDE	Leaf				--
0	QUERCETAGETRIN	Shoot				--
0	QUERCETAGETRIN	Tissue Culture				--
0	QUERCETAGETRIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
176	QUERCETIN	Shoot				--
0	QUERCETIN-5-O-BETA-D-GLUCOSIDE	Shoot				--
5	SABINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	SABINENE	Flower Essent. Oil		1800.0		--
5	SABINENE	Leaf Essent. Oil				Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
5	SABINENE	Fruit Essent. Oil		2200.0	-0.7067721445459115	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SALICYLALDEHYDE	Plant	47.0	395.0		--
5	SALICYLALDEHYDE	Essential Oil				--
0	SPATHULENOL	Flower Essent. Oil		100.0		--
0	SPATHULENOL	Essential Oil		20900.0	1.0	--
8	STEARIC-ACID	Seed Oil				--
6	SYRINGIC-ACID	Shoot				--
0	SYRINGIC-ACID-MONOMETHYLESTER	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	TAGETONE	Plant	288.0	3000.0	1.4127994891069109	--
2	TAGETONE	Essential Oil				--
23	TERPINEN-4-OL	Flower Essent. Oil		500.0		--
18	TERPINEOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	TERPINOLENE	Essential Oil		1200.0	-0.38665617795621554	--
7	THIOPHENE	Root				--
7	THIOPHENE	Leaf				--
71	THYMOL	Fruit Essent. Oil		3600.0		--
0	TRANS-BETA-OCIMENE	Leaf Essent. Oil		7000.0	-0.08149887373862419	Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
0	TRANS-BETA-OCIMENE	Fruit Essent. Oil		394400.0		--
0	TRANS-BETA-OCIMENE	Shoot Essent. Oil				--
0	TRANS-OCIMENE	Essential Oil		78000.0	1.3422809192685805	--
0	TRANS-OCIMENE	Flower Essent. Oil		3300.0		--
0	TRANS-OCIMENONE	Fruit Essent. Oil		148300.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRANS-OCIMENONE	Essential Oil		57800.0		--
0	TRANS-OCIMENONE	Flower Essent. Oil		100000.0		--
0	TRANS-OCIMENONE	Leaf Essent. Oil		356000.0		Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
0	TRANS-OCIMENONE	Shoot Essent. Oil				--
0	TRANS-TAGETENONE	Fruit Essent. Oil	132200.0	137600.0		--
0	TRANS-TAGETENONE	Shoot Essent. Oil				--
0	TRANS-TAGETENONE	Flower Essent. Oil	5000.0	132200.0		--
0	TRANS-TAGETONE	Flower Essent. Oil	34300.0	272700.0		--
0	TRANS-TAGETONE	Leaf Essent. Oil		60000.0		Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
0	TRANS-TAGETONE	Fruit Essent. Oil	4900.0	44900.0		--
0	TRANS-TAGETONE	Essential Oil		1300.0		--
0	TRANS-TAGETONE	Shoot Essent. Oil		63000.0		--
0	VALEREANIC-ACID	Essential Oil				--
9	VALERIC-ACID	Plant				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
1	VIRIDIFLOROL	Flower Essent. Oil		500.0		--