

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Tagetes minuta*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	ALPHA-TERTHIENYL	Flower Essent. Oil		3600.0		--
0	PATULETIN-7-O-BETA-D-GLUCOSIDE	Leaf				--
0	DIHYDRO-TAGETONE	Flower Essent. Oil	90700.0	480900.0		--
0	TRANS-TAGETENONE	Fruit Essent. Oil	132200.0	137600.0		--
13	BETA-PINENE	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	TRANS-BETA-OCIMENE	Fruit Essent. Oil		394400.0		--
0	3,7-DIMETHYL-OCTA-1,7-DIEN-6-ONE	Flower Essent. Oil		7.0		--
8	QUERCETAGETIN	Leaf				--
2	GERMACRENE-D	Flower Essent. Oil		1900.0		--
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 <i>Tagetes Minuta</i> L. and <i>T. filifolia</i> Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
0	PATULETIN-7-O-BETA-D-GLUCOSIDE	Shoot				--
0	LINALOL-MONOXIDE	Plant	93.0	250.0		--
0	DIHYDRO-TAGETONE	Essential Oil	77300.0	990000.0		--
0	TRANS-TAGETENONE	Shoot Essent. Oil				--
3	BETA-PHELLANDRENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CIS-TAGETONE	Essential Oil		41700.0		--
0	TRANS-BETA-OCIMENE	Shoot Essent. Oil				--
0	3,7-DIMETHYL-OCT-1-EN-6-ONE	Flower Essent. Oil		5.6		--
0	BETA-TAGETONE	Shoot Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	QUERCETAGETIN	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.
0	GERMACRENE-B	Flower Essent. Oil		11200.0		--
1	VIRIDIFLOROL	Flower Essent. Oil		500.0		--
0	CIS-OCIMENONE	Flower Essent. Oil		100000.0		--
5	SALICYLALDEHYDE	Essential Oil				--
28	ALPHA-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.
2	PATULETIN	Leaf				--
0	DIHYDRO-TAGETONE	Shoot Essent. Oil		300000.0		--
0	TRANS-TAGETENONE	Flower Essent. Oil	5000.0	132200.0		--
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.
71	THYMOL	Fruit Essent. Oil		3600.0		--
0	2,3,5-TRIMETHYLFURAN	Fruit Essent. Oil		18900.0		--
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.
2	PYRETHRIN-II	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SALICYLALDEHYDE	Plant	47.0	395.0		--
11	GAMMA-TERPINENE	Flower Essent. Oil		100.0		--
0	5-METHYL-2,2',2'',5'-TERTHIOPHENE	Flower Essent. Oil				--
3	CIS-OCIMENE	Flower Essent. Oil		283500.0		--
5	SABINENE	Flower Essent. Oil		1800.0		--
2	PATULETIN	Shoot				--
35	GERANIOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DIHYDRO-TAGETONE	Leaf Essent. Oil				--
0	TRANS-OCIMENONE	Fruit Essent. Oil		148300.0		--
0	CIS-TAGETONE	Fruit Essent. Oil	87800.0	246200.0		--
7	THIOPHENE	Root				--
0	CINERIN-II	Tissue Culture				--
16	P-CYMENE	Plant				--
60	LIMONENE	Essential Oil				--
3	AROMADENDRENE	Ge	324.0	925.0		--
2	PYRETHRIN-I	Tissue Culture				--
5	SABINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2,2',2'',5'-TERTHIOPHENE	Flower Essent. Oil				--
3	CIS-OCIMENE	Essential Oil		513200.0		--
5	SABINENE	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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ALPHA-HUMULENE	Flower Essent. Oil		4000.0		--
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	DIHYDROTAGETENONE	Flower Essent. Oil		44000.0		--
0	TRANS-OCIMENONE	Essential Oil		57800.0		--
0	CIS-TAGETONE	Flower Essent. Oil	70000.0	271500.0		--
7	THIOPHENE	Leaf				--
0	CINERIN-I	Tissue Culture				--
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.
28	ALPHA-PINENE	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.
0	PROPIONIC-ACID-2-METHYL-ETHYL-ESTER	Fruit Essent. Oil		3300.0		--
0	QUERCETAGETRIN	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		--
0	VALEREANIC-ACID	Essential Oil				--
16	P-CYMENE	Flower Essent. Oil		100.0		--
0	TRANS-OCIMENONE	Flower Essent. Oil		100000.0		--
31	CARYOPHILLENE	Flower Essent. Oil		5200.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	5-(3-BUTEN-1-YNYL)-2,2'-BITHIENYL	Plant				--
0	JASMOLIN-II	Tissue Culture				--
0	5-(BUT-3-EN-1-YNYL)-2,2'-BITHIENYL	Plant				--
0	CIS-TAGETONE	Shoot Essent. Oil		141000.0		--
3	BETA-PHELLANDRENE	Shoot Essent. Oil				--
13	FORMIC-ACID	Essential Oil				--
0	TRANS-TAGETONE	Leaf Essent. Oil		60000.0		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	QUERCETIN-5-O-BETA-D-GLUCOSIDE	Shoot				--
0	ACETIC-ACID-2-METHYL-BUTYL-ESTER	Fruit Essent. Oil		2300.0		--
0	DELTA-ELEMENE	Flower Essent. Oil		700.0		--
0	TRANS-OCIMENONE	Leaf Essent. Oil		356000.0		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.
23	TERPINEN-4-OL	Flower Essent. Oil		500.0		--
0	JASMOLIN-I	Tissue Culture				--
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	CIS-TAGETENONE	Fruit Essent. Oil	132200.0	137600.0		--
0	PHENYLETHANOL	Essential Oil				--
2	PHENYL-ACETALDEHYDE	Plant	65.0	175.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	EUGENOL-ACETATE	Leaf Essent. Oil				Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of <i>Tagetes Minuta</i> L. and <i>T. filifolia</i> 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		--
176	QUERCETIN	Shoot				--
16	ACETIC-ACID	Essential Oil				--
0	OCTAN-1-OL	Flower Essent. Oil		1900.0		--
0	DECAN-1-OL-ACETATE	Flower Essent. Oil		800.0		--
0	TRANS-OCIMENONE	Shoot Essent. Oil				--
0	QUERCETAGETRIN	Tissue Culture				--
11	ISORHAMNETIN	Leaf				--
0	2-HEXEN-1-AL	Plant	65.0	175.0		--
0	CIS-TAGETENONE	Shoot Essent. Oil				--
2	TAGETONE	Essential Oil				--
4	PELLANDRENE	Flower Essent. Oil		1700.0		--
0	PATULETRIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	EO	Shoot Essent. Oil				--
0	TRANS-TAGETONE	Essential Oil		1300.0		--
0	QUERCETAGETRIN	Shoot				--
0	5-METHYL-ALPHA-TERTHIENYL	Flower Essent. Oil		2000.0		--
7	D-CARVONE	Plant	122.0	325.0		--
0	TRANS-OCIMENE	Flower Essent. Oil		3300.0		--
1	CARVEOL	Essential Oil		8500.0		--
0	QUERCETAGETIN-7-O-BETA-GLUCOSIDE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LINALOOL-MONOXIDE	Plant	93.0	250.0		--
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.
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	CIS-TAGETENONE	Flower Essent. Oil	1300.0	132200.0		--
6	SYRINGIC-ACID	Shoot				--
0	PATULITRIN	Tissue Culture				--
0	OCIMENONE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	ELEMENE	Fruit Essent. Oil		6900.0		--
0	TRANS-TAGETONE	Shoot Essent. Oil		63000.0		--
0	OCTAN-1-AL	Fruit Essent. Oil		6200.0		--
0	CYMENE	Plant				--
1	DECAN-1-AL	Fruit Essent. Oil		2800.0		--
0	5-ISOBUTYL-3-METHYLFURAN-2-CARBALDEHYDE	Essential Oil		1000.0		--
9	CAMPHENE	Essential Oil				--
0	QUERCETAGETIN-3-ARABINOSYL-GALACTOSIDE	Leaf				--
9	VALERIC-ACID	Plant				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEPTAN-1-AL	Leaf Essent. Oil				Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of <i>Tagetes Minuta</i> L. and <i>T. filifolia</i> Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
0	CIS-OCIMENONE	Fruit Essent. Oil		91500.0		--
8	STEARIC-ACID	Seed Oil				--
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
0	PATULETRIN	Shoot				--
0	DIHYDRO-TAGETONE	Fruit Essent. Oil	154300.0	166200.0		--
0	TRANS-TAGETONE	Flower Essent. Oil	34300.0	272700.0		--
0	MONOMETHYLFUMARATE	Shoot				--
53	CITRAL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	D-CADINENE	Flower Essent. Oil		200.0		--
0	5-HYDROXY-3,7-DIEMTHYL-OCT-1-EN-6-ONE	Flower Essent. Oil				--
0	BUTYRIC-ACID-2-METHYL-ETHYL-ESTER	Fruit Essent. Oil		16500.0		--
0	QUERCETAGETIN-3-ARABINO-GALACTOSIDE	Shoot				--
18	TERPINEOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GLOBULOL	Flower Essent. Oil		1200.0		--
2	(5E)-OCIMENONE	Plant				Abstract (See species file)
0	CIS-OCIMENONE	Essential Oil		61700.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SPATHULENOL	Flower Essent. Oil		100.0		--
18	OLEIC-ACID	Seed Oil		16.0	-1.6780330457687065	--
28	ALPHA-PINENE	Flower Essent. Oil		100.0	-1.0	--
0	EUDESMOL	Plant	41.0	110.0	-1.0	--
13	BETA-EUDESMOL	Leaf Essent. Oil		10000.0	-1.0	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	DECAN-1-OL	Flower Essent. Oil		800.0	-1.0	--
35	BORNEOL	Essential Oil		6500.0	-0.8514325616391961	--
19	CARVONE	Essential Oil		8800.0	-0.8252268577968479	--
11	GAMMA-TERPINENE	Essential Oil		4300.0	-0.7634064999488264	--
5	SABINENE	Fruit Essent. Oil		2200.0	-0.7067721445459115	--
19	CARVONE	Fruit Essent. Oil		7700.0	-0.6921983533349608	--
0	BETA-CARYOPHYLLENE	Fruit Essent. Oil		5800.0	-0.6397785658600676	--
0	ALPHA-COPAENE	Essential Oil		1000.0	-0.5679033734252681	--
67	1,8-CINEOLE	Plant	47.0	125.0	-0.526576510085783	--
7	LINALYL-ACETATE	Plant	34.0	125.0	-0.5179577333431766	--
19	D-LIMONENE	Plant	56.0	425.0	-0.4885256071430556	--
0	DIHYDROCARVONE	Essential Oil		9100.0	-0.482867976917054	--
28	ALPHA-PINENE	Essential Oil		10300.0	-0.4694352163298297	--
13	BETA-PINENE	Essential Oil		14800.0	-0.4017613642678912	--
0	ALPHA-THUJENE	Essential Oil		800.0	-0.3954227110609452	--
9	TERPINOLENE	Essential Oil		1200.0	-0.38665617795621554	--
0	L-LINALOOL	Plant	1.0	175.0	-0.38254777872090373	--
0	EO	Plant	1870.0	5000.0	-0.36013745523464397	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Fruit Essent. Oil	213100.0	353200.0	-0.32654836924013236	--
0	L-LINALOL	Plant	1.0	175.0	-0.17946446333066804	--
0	TRANS-BETA-OCIMENE	Leaf Essent. Oil		7000.0	-0.08149887373862419	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.
60	LIMONENE	Shoot Essent. Oil		83000.0	-0.06856978436527997	--
60	LIMONENE	Leaf Essent. Oil		200000.0	0.20584956866150136	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	PALMITIC-ACID	Seed Oil		216400.0	0.22973165000663703	--
2	OCIMENE	Plant	280.0	1500.0	0.3961170617858969	--
60	LIMONENE	Flower Essent. Oil	166300.0	353200.0	0.7456036872623704	--
0	SPATHULENOL	Essential Oil		20900.0	1.0	--
2	BETA-MYRCENE	Plant	374.0	1000.0	1.0	--
7	PIPERITONE	Fruit Essent. Oil		4100.0	1.0	--
0	OCTAN-1-OL	Fruit Essent. Oil		2600.0	1.0	--
0	TRANS-OCIMENE	Essential Oil		78000.0	1.3422809192685805	--
0	PHENYL-ETHYL-ALCOHOL	Plant	288.0	770.0	1.39670970884395	--
2	TAGETONE	Plant	288.0	3000.0	1.4127994891069109	--
3	AROMADENDRENE	Plant	324.0	925.0	1.7318445510029972	--