

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Tagetes minuta*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	AROMADENDRENE	Plant	324.0	925.0	1.7318445510029972	--
2	TAGETONE	Plant	288.0	3000.0	1.4127994891069109	--
0	PHENYL-ETHYL-ALCOHOL	Plant	288.0	770.0	1.39670970884395	--
0	TRANS-OCIMENE	Essential Oil		78000.0	1.3422809192685805	--
7	PIPERITONE	Fruit Essent. Oil		4100.0	1.0	--
2	BETA-MYRCENE	Plant	374.0	1000.0	1.0	--
0	SPATHULENOL	Essential Oil		20900.0	1.0	--
0	OCTAN-1-OL	Fruit Essent. Oil		2600.0	1.0	--
60	LIMONENE	Flower Essent. Oil	166300.0	353200.0	0.7456036872623704	--
2	OCIMENE	Plant	280.0	1500.0	0.3961170617858969	--
13	PALMITIC-ACID	Seed Oil		216400.0	0.22973165000663703	--
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 <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.
60	LIMONENE	Shoot Essent. Oil		83000.0	-0.06856978436527997	--
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 <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	L-LINALOL	Plant	1.0	175.0	-0.17946446333066804	--
60	LIMONENE	Fruit Essent. Oil	213100.0	353200.0	-0.32654836924013236	--
0	EO	Plant	1870.0	5000.0	-0.36013745523464397	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	L-LINALOOL	Plant	1.0	175.0	-0.38254777872090373	--
9	TERPINOLENE	Essential Oil		1200.0	-0.38665617795621554	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-THUJENE	Essential Oil		800.0	-0.3954227110609452	--
13	BETA-PINENE	Essential Oil		14800.0	-0.4017613642678912	--
28	ALPHA-PINENE	Essential Oil		10300.0	-0.4694352163298297	--
0	DIHYDROCARVONE	Essential Oil		9100.0	-0.482867976917054	--
19	D-LIMONENE	Plant	56.0	425.0	-0.4885256071430556	--
7	LINALYL-ACETATE	Plant	34.0	125.0	-0.5179577333431766	--
67	1,8-CINEOLE	Plant	47.0	125.0	-0.526576510085783	--
0	ALPHA-COPAENE	Essential Oil		1000.0	-0.5679033734252681	--
0	BETA-CARYOPHYLLENE	Fruit Essent. Oil		5800.0	-0.6397785658600676	--
19	CARVONE	Fruit Essent. Oil		7700.0	-0.6921983533349608	--
5	SABINENE	Fruit Essent. Oil		2200.0	-0.7067721445459115	--
11	GAMMA-TERPINENE	Essential Oil		4300.0	-0.7634064999488264	--
19	CARVONE	Essential Oil		8800.0	-0.8252268577968479	--
35	BORNEOL	Essential Oil		6500.0	-0.8514325616391961	--
28	ALPHA-PINENE	Flower Essent. Oil		100.0	-1.0	--
0	DECAN-1-OL	Flower Essent. Oil		800.0	-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.
18	OLEIC-ACID	Seed Oil		16.0	-1.6780330457687065	--
0	5-HYDROXY-3,7-DIETHYL-OCT-1-EN-6-ONE	Flower Essent. Oil				--
53	CITRAL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	TAGETONE	Essential Oil				--
60	LIMONENE	Essential Oil				--
0	CIS-TAGETONE	Fruit Essent. Oil	87800.0	246200.0		--
18	TERPINEOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TRANS-TAGETONE	Essential Oil		1300.0		--
2	PYRETHRIN-I	Tissue Culture				--
2	(5E)-OCIMENONE	Plant				Abstract (See species file)
0	QUERCETAGETRIN	Shoot				--
3	CIS-OCIMENE	Essential Oil		513200.0		--
0	BUTYRIC-ACID-2-METHYL-ETHYL-ESTER	Fruit Essent. Oil		16500.0		--
10	ALPHA-TERTHIENYL	Flower Essent. Oil		3600.0		--
0	TRANS-OCIMENE	Flower Essent. Oil		3300.0		--
0	DIHYDROTAGETENONE	Flower Essent. Oil		44000.0		--
0	3,7-DIMETHYL-OCTA-1,7-DIEN-6-ONE	Flower Essent. Oil		7.0		--
13	BETA-PINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	SYRINGIC-ACID	Shoot				--
0	CIS-TAGETONE	Flower Essent. Oil	70000.0	271500.0		--
0	TRANS-TAGETONE	Shoot Essent. Oil		63000.0		--
0	PROPIONIC-ACID-2-METHYL-ETHYL-ESTER	Fruit Essent. Oil		3300.0		--
0	GAMMA-ELEMENE	Essential Oil		700.0		--
0	LINALOL-MONOXIDE	Plant	93.0	250.0		--
16	P-CYMENE	Flower Essent. Oil		100.0		--
0	3,7-DIMETHYL-OCT-1-EN-6-ONE	Flower Essent. Oil		5.6		--

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.
8	STEARIC-ACID	Seed Oil				--
0	JASMOLIN-II	Tissue Culture				--
0	CIS-TAGETONE	Shoot Essent. Oil		141000.0		--
0	TRANS-TAGETONE	Flower Essent. Oil	34300.0	272700.0		--
13	FORMIC-ACID	Essential Oil				--
0	BETA-TAGETONE	Shoot Essent. Oil				--
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.
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.
0	DELTA-ELEMENE	Flower Essent. Oil		700.0		--
0	2,3,5-TRIMETHYLFURAN	Fruit Essent. Oil		18900.0		--
0	SPATHULENOL	Flower Essent. Oil		100.0		--
0	JASMOLIN-I	Tissue Culture				--
0	CIS-TAGETENONE	Fruit Essent. Oil	132200.0	137600.0		--
0	TRANS-TAGETENONE	Fruit Essent. Oil	132200.0	137600.0		--
0	PHENYLETHANOL	Essential Oil				--
1	EUGENOL-ACETATE	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
13	BETA-PINENE	Leaf Essent. Oil				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.
5	SALICYLALDEHYDE	Plant	47.0	395.0		--
35	GERANIOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TRANS-BETA-OCIMENE	Fruit Essent. Oil		394400.0		--
0	OCTAN-1-OL	Flower Essent. Oil		1900.0		--
0	DECAN-1-OL-ACETATE	Flower Essent. Oil		800.0		--
0	CINERIN-II	Tissue Culture				--
16	P-CYMENE	Plant				--
0	QUERCETAGETRIN	Tissue Culture				--
3	AROMADENDRENE	Ge	324.0	925.0		--
11	ISORHAMNETIN	Leaf				--
0	CIS-TAGETENONE	Shoot Essent. Oil				--
0	TRANS-TAGETENONE	Shoot Essent. Oil				--
4	PELLANDRENE	Flower Essent. Oil		1700.0		--
0	EO	Shoot Essent. Oil				--
5	SABINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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	TRANS-BETA-OCIMENE	Shoot Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
1	VIRIDIFLOROL	Flower Essent. Oil		500.0		--
0	QUERCETAGETIN-7-O-BETA-GLUCOSIDE	Leaf				--
28	ALPHA-PINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	SALICYLALDEHYDE	Essential Oil				--
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	CIS-TAGETENONE	Flower Essent. Oil	1300.0	132200.0		--
3	ELEMENE	Fruit Essent. Oil		6900.0		--
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	QUERCETAGETRIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TRANS-TAGETENONE	Flower Essent. Oil	5000.0	132200.0		--
0	PATULITRIN	Tissue Culture				--
71	THYMOL	Fruit Essent. Oil		3600.0		--
0	OCTAN-1-AL	Fruit Essent. Oil		6200.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	DECAN-1-AL	Fruit Essent. Oil		2800.0		--
31	CARYOPHYLLENE	Flower Essent. Oil		5200.0		--
2	5-(3-BUTEN-1-YNYL)-2,2'-BITHIENYL	Plant				--
0	5-METHYL-2,2',5'-TERTHIOPHENE	Flower Essent. Oil				--
0	QUERCETAGETIN-3-ARABINOSYL-GALACTOSIDE	Leaf				--
0	5-(BUT-3-EN-1-YNYL)-2,2'-BITHIENYL	Plant				--
5	SABINENE	Flower Essent. Oil		1800.0		--
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	CIS-OCIMENONE	Fruit Essent. Oil		91500.0		--
0	DIHYDRO-TAGETONE	Fruit Essent. Oil	154300.0	166200.0		--
3	BETA-PHELLANDRENE	Shoot Essent. Oil				--
0	TRANS-OCIMENONE	Fruit Essent. Oil		148300.0		--
0	PATULETRIN	Shoot				--
0	ACETIC-ACID-2-METHYL-BUTYL-ESTER	Fruit Essent. Oil		2300.0		--
7	THIOPHENE	Root				--
0	MONOMETHYLFUMARATE	Shoot				--
0	D-CADINENE	Flower Essent. Oil		200.0		--
0	2,2',5'-TERTHIOPHENE	Flower Essent. Oil				--
0	QUERCETAGETIN-3-ARABINO-GALACTOSIDE	Shoot				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
0	GLOBULOL	Flower Essent. Oil		1200.0		--
0	CIS-OCIMENONE	Essential Oil		61700.0		--
0	DIHYDRO-TAGETONE	Flower Essent. Oil	90700.0	480900.0		--
2	PHENYL-ACETALDEHYDE	Plant	65.0	175.0		--
0	TRANS-OCIMENONE	Essential Oil		57800.0		--
0	PATULETIN-7-O-BETA-D-GLUCOSIDE	Leaf				--
16	ACETIC-ACID	Essential Oil				--
7	THIOPHENE	Leaf				--
53	CITRAL	Essential Oil				--
0	VALEREANIC-ACID	Essential Oil				--
8	QUERCETAGETIN	Leaf				--
0	2-HEXEN-1-AL	Plant	65.0	175.0		--
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 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	DIHYDRO-TAGETONE	Essential Oil	77300.0	990000.0		--
0	PATULETRIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TRANS-OCIMENONE	Flower Essent. Oil		100000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PATULETIN-7-O-BETA-D-GLUCOSIDE	Shoot				--
0	5-METHYL-ALPHA-TERTHIENYL	Flower Essent. Oil		2000.0		--
7	D-CARVONE	Plant	122.0	325.0		--
0	CIS-TAGETONE	Essential Oil		41700.0		--
0	LINALOOL-MONOXIDE	Plant	93.0	250.0		--
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.
8	QUERCETAGETIN	Shoot				--
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	QUERCETIN-5-O-BETA-D-GLUCOSIDE	Shoot				--
0	GERMACRENE-B	Flower Essent. Oil		11200.0		--
0	CIS-OCIMENONE	Flower Essent. Oil		100000.0		--
1	CARVEOL	Essential Oil		8500.0		--
0	DIHYDRO-TAGETONE	Shoot Essent. Oil		300000.0		--
0	OCIMENONE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
2	PATULETIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5-ISOBUTYL-3-METHYLFURAN-2-CARBALDEHYDE	Essential Oil		1000.0		--
0	CYMENE	Plant				--
23	TERPINEN-4-OL	Flower Essent. Oil		500.0		--
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.
9	VALERIC-ACID	Plant				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	TRANS-TAGETONE	Fruit Essent. Oil	4900.0	44900.0		--
2	PYRETHRIN-II	Tissue Culture				--
176	QUERCETIN	Shoot				--
11	GAMMA-TERPINENE	Flower Essent. Oil		100.0		--
3	CIS-OCIMENE	Flower Essent. Oil		283500.0		--
9	CAMPHENE	Essential 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	TRANS-OCIMENONE	Shoot Essent. Oil				--
2	PATULETIN	Shoot				--
0	DIHYDRO-TAGETONE	Leaf Essent. Oil				--