

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Tagetes minuta*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	DIHYDRO-TAGETONE	Essential Oil	77300.0	990000.0		--
3	CIS-OCIMENE	Essential Oil		513200.0		--
0	DIHYDRO-TAGETONE	Flower Essent. Oil	90700.0	480900.0		--
0	TRANS-BETA-OCIMENE	Fruit Essent. Oil		394400.0		--
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 <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	Fruit Essent. Oil	213100.0	353200.0	-0.32654836924013236	--
60	LIMONENE	Flower Essent. Oil	166300.0	353200.0	0.7456036872623704	--
0	CIS-OCIMENONE	Leaf Essent. Oil		321000.0		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	DIHYDRO-TAGETONE	Shoot Essent. Oil		300000.0		--
3	CIS-OCIMENE	Flower Essent. Oil		283500.0		--
0	TRANS-TAGETONE	Flower Essent. Oil	34300.0	272700.0		--
0	CIS-TAGETONE	Flower Essent. Oil	70000.0	271500.0		--
0	CIS-TAGETONE	Fruit Essent. Oil	87800.0	246200.0		--
13	PALMITIC-ACID	Seed Oil		216400.0	0.22973165000663703	--
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 <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	DIHYDRO-TAGETONE	Fruit Essent. Oil	154300.0	166200.0		--
0	TRANS-OCIMENONE	Fruit Essent. Oil		148300.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CIS-TAGETONE	Shoot Essent. Oil		141000.0		--
0	CIS-TAGETENONE	Fruit Essent. Oil	132200.0	137600.0		--
0	TRANS-TAGETENONE	Fruit Essent. Oil	132200.0	137600.0		--
0	CIS-TAGETENONE	Flower Essent. Oil	1300.0	132200.0		--
0	TRANS-TAGETENONE	Flower Essent. Oil	5000.0	132200.0		--
0	CIS-OCIMENONE	Flower Essent. Oil		100000.0		--
0	TRANS-OCIMENONE	Flower Essent. Oil		100000.0		--
0	CIS-OCIMENONE	Fruit Essent. Oil		91500.0		--
60	LIMONENE	Shoot Essent. Oil		83000.0	-0.06856978436527997	--
0	TRANS-OCIMENE	Essential Oil		78000.0	1.3422809192685805	--
0	TRANS-TAGETONE	Shoot Essent. Oil		63000.0		--
0	CIS-OCIMENONE	Essential Oil		61700.0		--
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.
0	TRANS-OCIMENONE	Essential Oil		57800.0		--
0	TRANS-TAGETONE	Fruit Essent. Oil	4900.0	44900.0		--
0	DIHYDROTAGETENONE	Flower Essent. Oil		44000.0		--
0	CIS-TAGETONE	Essential Oil		41700.0		--
0	SPATHULENOL	Essential Oil		20900.0	1.0	--
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.
0	2,3,5-TRIMETHYLFURAN	Fruit Essent. Oil		18900.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BUTYRIC-ACID-2-METHYL-ETHYL-ESTER	Fruit Essent. Oil		16500.0		--
13	BETA-PINENE	Essential Oil		14800.0	-0.4017613642678912	--
0	GERMACRENE-B	Flower Essent. Oil		11200.0		--
28	ALPHA-PINENE	Essential Oil		10300.0	-0.4694352163298297	--
13	BETA-EUDESOL	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	DIHYDROCARVONE	Essential Oil		9100.0	-0.482867976917054	--
19	CARVONE	Essential Oil		8800.0	-0.8252268577968479	--
1	CARVEOL	Essential Oil		8500.0		--
19	CARVONE	Fruit Essent. Oil		7700.0	-0.6921983533349608	--
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.
3	ELEMENE	Fruit Essent. Oil		6900.0		--
35	BORNEOL	Essential Oil		6500.0	-0.8514325616391961	--
0	OCTAN-1-AL	Fruit Essent. Oil		6200.0		--
0	BETA-CARYOPHYLLENE	Fruit Essent. Oil		5800.0	-0.6397785658600676	--
31	CARYOPHYLLENE	Flower Essent. Oil		5200.0		--
0	EO	Plant	1870.0	5000.0	-0.36013745523464397	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
11	GAMMA-TERPINENE	Essential Oil		4300.0	-0.7634064999488264	--
7	PIPERITONE	Fruit Essent. Oil		4100.0	1.0	--
2	ALPHA-HUMULENE	Flower Essent. Oil		4000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	ALPHA-TERTHIENYL	Flower Essent. Oil		3600.0		--
71	THYMOL	Fruit Essent. Oil		3600.0		--
0	PROPIONIC-ACID-2-METHYL-ETHYL-ESTER	Fruit Essent. Oil		3300.0		--
0	TRANS-OCIMENE	Flower Essent. Oil		3300.0		--
2	TAGETONE	Plant	288.0	3000.0	1.4127994891069109	--
1	DECAN-1-AL	Fruit Essent. Oil		2800.0		--
0	OCTAN-1-OL	Fruit Essent. Oil		2600.0	1.0	--
0	ACETIC-ACID-2-METHYL-BUTYL-ESTER	Fruit Essent. Oil		2300.0		--
5	SABINENE	Fruit Essent. Oil		2200.0	-0.7067721445459115	--
0	5-METHYL-ALPHA-TERTHIENYL	Flower Essent. Oil		2000.0		--
0	OCTAN-1-OL	Flower Essent. Oil		1900.0		--
2	GERMACRENE-D	Flower Essent. Oil		1900.0		--
5	SABINENE	Flower Essent. Oil		1800.0		--
4	PHELLANDRENE	Flower Essent. Oil		1700.0		--
2	OCIMENE	Plant	280.0	1500.0	0.3961170617858969	--
0	TRANS-TAGETONE	Essential Oil		1300.0		--
9	TERPINOLENE	Essential Oil		1200.0	-0.38665617795621554	--
0	GLOBULOL	Flower Essent. Oil		1200.0		--
0	ALPHA-COPAENE	Essential Oil		1000.0	-0.5679033734252681	--
0	5-ISOBUTYL-3-METHYLFURAN-2-CARBALDEHYDE	Essential Oil		1000.0		--
2	BETA-MYRCENE	Plant	374.0	1000.0	1.0	--
3	AROMADENDRENE	Plant	324.0	925.0	1.7318445510029972	--
3	AROMADENDRENE	Ge	324.0	925.0		--
0	DECAN-1-OL-ACETATE	Flower Essent. Oil		800.0		--
0	DECAN-1-OL	Flower Essent. Oil		800.0	-1.0	--
0	ALPHA-THUJENE	Essential Oil		800.0	-0.3954227110609452	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	PHENYL-ETHYL-ALCOHOL	Plant	288.0	770.0	1.39670970884395	--
0	GAMMA-ELEMENE	Essential Oil		700.0		--
0	DELTA-ELEMENE	Flower Essent. Oil		700.0		--
23	TERPINEN-4-OL	Flower Essent. Oil		500.0		--
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.
1	VIRIDIFLOROL	Flower Essent. Oil		500.0		--
19	D-LIMONENE	Plant	56.0	425.0	-0.4885256071430556	--
5	SALICYLALDEHYDE	Plant	47.0	395.0		--
7	D-CARVONE	Plant	122.0	325.0		--
0	LINALOOL-MONOXIDE	Plant	93.0	250.0		--
0	LINALOL-MONOXIDE	Plant	93.0	250.0		--
0	D-CADINENE	Flower Essent. Oil		200.0		--
0	L-LINALOOL	Plant	1.0	175.0	-0.38254777872090373	--
2	PHENYL-ACETALDEHYDE	Plant	65.0	175.0		--
0	2-HEXEN-1-AL	Plant	65.0	175.0		--
0	L-LINALOL	Plant	1.0	175.0	-0.17946446333066804	--
67	1,8-CINEOLE	Plant	47.0	125.0	-0.526576510085783	--
7	LINALYL-ACETATE	Plant	34.0	125.0	-0.5179577333431766	--
0	EUDESMOL	Plant	41.0	110.0	-1.0	--
16	P-CYMENE	Flower Essent. Oil		100.0		--
0	SPATHULENOL	Flower Essent. Oil		100.0		--
11	GAMMA-TERPINENE	Flower Essent. Oil		100.0		--
28	ALPHA-PINENE	Flower Essent. Oil		100.0	-1.0	--
18	OLEIC-ACID	Seed Oil		16.0	-1.6780330457687065	--
0	3,7-DIMETHYL-OCTA-1,7-DIEN-6-ONE	Flower Essent. Oil		7.0		--
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
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.
28	ALPHA-PINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CINERIN-I	Tissue Culture				--
0	QUERCETIN-5-O-BETA-D-GLUCOSIDE	Shoot				--
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.
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	JASMOLIN-II	Tissue Culture				--
13	FORMIC-ACID	Essential Oil				--
0	5-(BUT-3-EN-1-YNYL-2,2'-BITHIENYL	Plant				--
176	QUERCETIN	Shoot				--
2	5-(3-BUTEN-1-YNYL)-2,2'-BITHIENYL	Plant				--
0	TRANS-OCIMENONE	Shoot Essent. Oil				--
3	BETA-PHELLANDRENE	Shoot Essent. Oil				--
0	JASMOLIN-I	Tissue Culture				--
2	TAGETONE	Essential Oil				--
0	PHENYLETHANOL	Essential Oil				--

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 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	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	QUERCETAGETRIN	Shoot				--
0	CIS-TAGETENONE	Shoot Essent. Oil				--
0	QUERCETAGETRIN	Tissue Culture				--
11	ISORHAMNETIN	Leaf				--
6	SYRINGIC-ACID	Shoot				--
16	ACETIC-ACID	Essential Oil				--
0	EO	Shoot Essent. Oil				--
0	PATULETRIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	QUERCETAGETIN-7-O-BETA-GLUCOSIDE	Leaf				--
0	HEXAN-1-AL	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.
8	STEARIC-ACID	Seed Oil				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETAGETIN-3-ARABINOSYL-GALACTOSIDE	Leaf				--
0	HEPTAN-1-AL	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.
0	CYMENE	Plant				--
0	PATULETRIN	Shoot				--
0	MONOMETHYLFUMARATE	Shoot				--
9	CAMPHENE	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.
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	QUERCETAGETIN-3-ARABINO-GALACTOSIDE	Shoot				--
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.
0	PATULETIN-7-O-BETA-D-GLUCOSIDE	Leaf				--
53	CITRAL	Essential Oil				--
0	TRANS-TAGETENONE	Shoot Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	TERPINEOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	(5E)-OCIMENONE	Plant				Abstract (See species file)
0	TRANS-BETA-OCIMENE	Shoot Essent. Oil				--
8	QUERCETAGETIN	Leaf				--
13	BETA-PINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PATULETIN-7-O-BETA-D-GLUCOSIDE	Shoot				--
5	SALICYLALDEHYDE	Essential Oil				--
8	QUERCETAGETIN	Shoot				--
3	BETA-PHELLANDRENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	PATULETIN	Leaf				--
0	5-METHYL-2,2',2'',5'-TERTHIOPHENE	Flower Essent. 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.
7	THIOPHENE	Root				--
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.
2	PYRETHRIN-II	Tissue Culture				--
2	PATULETIN	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DIHYDRO-TAGETONE	Leaf Essent. Oil				--
0	2,2',2'',5'-TERTHIOPHENE	Flower Essent. Oil				--
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.
60	LIMONENE	Essential 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.
7	THIOPHENE	Leaf				--
35	GERANIOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	PYRETHRIN-I	Tissue Culture				--
0	VALEREANIC-ACID	Essential Oil				--
0	CINERIN-II	Tissue Culture				--
16	P-CYMENE	Plant				--
5	SABINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.