

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Tagetes minuta*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
176	QUERCETIN	Shoot				--
71	THYMOL	Fruit Essent. Oil		3600.0		--
67	1,8-CINEOLE	Plant	47.0	125.0	-0.526576510085783	--
60	LIMONENE	Essential Oil				--
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 <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	--
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				--
35	BORNEOL	Essential Oil		6500.0	-0.8514325616391961	--
35	GERANIOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
31	CARYOPHYLLENE	Flower Essent. Oil		5200.0		--
28	ALPHA-PINENE	Essential Oil		10300.0	-0.4694352163298297	--
28	ALPHA-PINENE	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.
28	ALPHA-PINENE	Flower Essent. Oil		100.0	-1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	ALPHA-PINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
23	TERPINEN-4-OL	Flower Essent. Oil		500.0		--
19	CARVONE	Fruit Essent. Oil		7700.0	-0.6921983533349608	--
19	D-LIMONENE	Plant	56.0	425.0	-0.4885256071430556	--
19	CARVONE	Essential Oil		8800.0	-0.8252268577968479	--
18	TERPINEOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
18	OLEIC-ACID	Seed Oil		16.0	-1.6780330457687065	--
16	P-CYMENE	Flower Essent. Oil		100.0		--
16	P-CYMENE	Plant				--
16	ACETIC-ACID	Essential Oil				--
13	PALMITIC-ACID	Seed Oil		216400.0	0.22973165000663703	--
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	FORMIC-ACID	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.
13	BETA-PINENE	Essential Oil		14800.0	-0.4017613642678912	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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 <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.
11	GAMMA-TERPINENE	Essential Oil		4300.0	-0.7634064999488264	--
11	ISORHAMNETIN	Leaf				--
11	GAMMA-TERPINENE	Flower Essent. Oil		100.0		--
10	ALPHA-TERTHIENYL	Flower Essent. Oil		3600.0		--
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
9	TERPINOLENE	Essential Oil		1200.0	-0.38665617795621554	--
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.
8	STEARIC-ACID	Seed Oil				--
8	QUERCETAGETIN	Leaf				--
8	QUERCETAGETIN	Shoot				--
7	LINALYL-ACETATE	Plant	34.0	125.0	-0.5179577333431766	--
7	PIPERITONE	Fruit Essent. Oil		4100.0	1.0	--
7	THIOPHENE	Root				--
7	THIOPHENE	Leaf				--
7	D-CARVONE	Plant	122.0	325.0		--
6	SYRINGIC-ACID	Shoot				--
5	SALICYLALDEHYDE	Plant	47.0	395.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SABINENE	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				--
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	--
4	PHELLANDRENE	Flower Essent. Oil		1700.0		--
3	CIS-OCIMENE	Essential Oil		513200.0		--
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	AROMADENDRENE	Ge	324.0	925.0		--
3	BETA-PHELLANDRENE	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.
3	ELEMENE	Fruit Essent. Oil		6900.0		--
3	BETA-PHELLANDRENE	Shoot Essent. Oil				--
3	AROMADENDRENE	Plant	324.0	925.0	1.7318445510029972	--
3	CIS-OCIMENE	Flower Essent. Oil		283500.0		--
2	TAGETONE	Essential Oil				--
2	(5E)-OCIMENONE	Plant				Abstract (See species file)
2	PYRETHRIN-I	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	TAGETONE	Plant	288.0	3000.0	1.4127994891069109	--
2	BETA-MYRCENE	Plant	374.0	1000.0	1.0	--
2	ALPHA-HUMULENE	Flower Essent. Oil		4000.0		--
2	5-(3-BUTEN-1-YNYL)-2,2'-BITHIENYL	Plant				--
2	PHENYL-ACETALDEHYDE	Plant	65.0	175.0		--
2	GERMACRENE-D	Flower Essent. Oil		1900.0		--
2	PATULETIN	Leaf				--
2	PYRETHRIN-II	Tissue Culture				--
2	OCIMENE	Plant	280.0	1500.0	0.3961170617858969	--
2	PATULETIN	Shoot				--
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.
1	VIRIDIFLOROL	Flower Essent. Oil		500.0		--
1	DECAN-1-AL	Fruit Essent. Oil		2800.0		--
1	CARVEOL	Essential Oil		8500.0		--
0	CIS-TAGETONE	Fruit Essent. Oil	87800.0	246200.0		--
0	5-HYDROXY-3,7-DIETHYL-OCT-1-EN-6-ONE	Flower Essent. Oil				--
0	BUTYRIC-ACID-2-METHYL-ETHYL-ESTER	Fruit Essent. Oil		16500.0		--
0	TRANS-TAGETONE	Essential Oil		1300.0		--
0	QUERCETAGETRIN	Shoot				--
0	TRANS-OCIMENE	Flower Essent. Oil		3300.0		--
0	DIHYDROTAGETENONE	Flower Essent. Oil		44000.0		--
0	CIS-TAGETONE	Flower Essent. Oil	70000.0	271500.0		--
0	3,7-DIMETHYL-OCTA-1,7-DIEN-6-ONE	Flower Essent. Oil		7.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	TRANS-OCIMENE	Essential Oil		78000.0	1.3422809192685805	--
0	DIHYDROCARVONE	Essential Oil		9100.0	-0.482867976917054	--
0	LINALOL-MONOXIDE	Plant	93.0	250.0		--
0	JASMOLIN-II	Tissue Culture				--
0	CIS-TAGETONE	Shoot Essent. Oil		141000.0		--
0	3,7-DIMETHYL-OCT-1-EN-6-ONE	Flower Essent. Oil		5.6		--
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.
0	TRANS-TAGETONE	Flower Essent. Oil	34300.0	272700.0		--
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.
0	DELTA-ELEMENE	Flower Essent. Oil		700.0		--
0	L-LINALOL	Plant	1.0	175.0	-0.17946446333066804	--
0	JASMOLIN-I	Tissue Culture				--
0	CIS-TAGETENONE	Fruit Essent. Oil	132200.0	137600.0		--
0	2,3,5-TRIMETHYLFURAN	Fruit Essent. Oil		18900.0		--
0	SPATHULENOL	Flower Essent. Oil		100.0		--
0	TRANS-TAGETENONE	Fruit Essent. Oil	132200.0	137600.0		--
0	PHENYLETHANOL	Essential Oil				--
0	TRANS-BETA-OCIMENE	Fruit Essent. Oil		394400.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	OCTAN-1-OL	Flower Essent. Oil		1900.0		--
0	DECAN-1-OL-ACETATE	Flower Essent. Oil		800.0		--
0	CIS-TAGETENONE	Shoot Essent. Oil				--
0	CINERIN-II	Tissue Culture				--
0	SPATHULENOL	Essential Oil		20900.0	1.0	--
0	QUERCETAGETRIN	Tissue Culture				--
0	TRANS-TAGETENONE	Shoot Essent. Oil				--
0	EO	Shoot Essent. Oil				--
0	TRANS-BETA-OCIMENE	Shoot Essent. Oil				--
0	OCTAN-1-OL	Fruit Essent. Oil		2600.0	1.0	--
0	DECAN-1-OL	Flower Essent. Oil		800.0	-1.0	--
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	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		--
0	CINERIN-I	Tissue Culture				--
0	QUERCETAGETIN-7-O-BETA-GLUCOSIDE	Leaf				--
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				--
0	OCTAN-1-AL	Fruit Essent. Oil		6200.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-COPAENE	Essential Oil		1000.0	-0.5679033734252681	--
0	EUDESMOL	Plant	41.0	110.0	-1.0	--
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	CIS-OCIMENONE	Fruit Essent. Oil		91500.0		--
0	5-(BUT-3-EN-1-YNYL-2,2'-BITHIENYL	Plant				--
0	5-METHYL-2,2',2'',5'-TERTHIOPHENE	Flower Essent. Oil				--
0	QUERCETAGETIN-3-ARABINOSYL-GALACTOSIDE	Leaf				--
0	PHENYL-ETHYL-ALCOHOL	Plant	288.0	770.0	1.39670970884395	--
0	TRANS-OCIMENONE	Fruit Essent. Oil		148300.0		--
0	PATULETRIN	Shoot				--
0	DIHYDRO-TAGETONE	Fruit Essent. Oil	154300.0	166200.0		--
0	MONOMETHYLFUMARATE	Shoot				--
0	D-CADINENE	Flower Essent. Oil		200.0		--
0	ACETIC-ACID-2-METHYL-BUTYL-ESTER	Fruit Essent. Oil		2300.0		--
0	EO	Plant	1870.0	5000.0	-0.36013745523464397	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	GLOBULOL	Flower Essent. Oil		1200.0		--
0	CIS-OCIMENONE	Essential Oil		61700.0		--
0	L-LINALOOL	Plant	1.0	175.0	-0.38254777872090373	--
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	2,2',2'',5'-TERTHIOPHENE	Flower Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETAGETIN-3-ARABINO-GALACTOSIDE	Shoot				--
0	TRANS-OCIMENONE	Essential Oil		57800.0		--
0	PATULETIN-7-O-BETA-D-GLUCOSIDE	Leaf				--
0	DIHYDRO-TAGETONE	Flower Essent. Oil	90700.0	480900.0		--
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 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-HEXEN-1-AL	Plant	65.0	175.0		--
0	VALEREANIC-ACID	Essential 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	TRANS-OCIMENONE	Flower Essent. Oil		100000.0		--
0	PATULETIN-7-O-BETA-D-GLUCOSIDE	Shoot				--
0	DIHYDRO-TAGETONE	Essential Oil	77300.0	990000.0		--
0	BETA-CARYOPHYLLENE	Fruit Essent. Oil		5800.0	-0.6397785658600676	--
0	CIS-TAGETONE	Essential Oil		41700.0		--
0	5-METHYL-ALPHA-TERTHIENYL	Flower Essent. Oil		2000.0		--
0	CIS-OCIMENONE	Flower Essent. Oil		100000.0		--
0	LINALOOL-MONOXIDE	Plant	93.0	250.0		--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	QUERCETIN-5-O-BETA-D-GLUCOSIDE	Shoot				--
0	GERMACRENE-B	Flower Essent. Oil		11200.0		--
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		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	DIHYDRO-TAGETONE	Shoot Essent. Oil		300000.0		--
0	ALPHA-THUJENE	Essential Oil		800.0	-0.3954227110609452	--
0	CIS-TAGETONE	Leaf Essent. Oil		20000.0		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	5-ISOBUTYL-3-METHYLFURAN-2-CARBALDEHYDE	Essential Oil		1000.0		--
0	CYMENE	Plant				--
0	TRANS-TAGETONE	Fruit Essent. Oil	4900.0	44900.0		--
0	TRANS-OCIMENONE	Shoot Essent. Oil				--
0	DIHYDRO-TAGETONE	Leaf Essent. Oil				--