

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Thymus vulgaris*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	FIBER	Plant	179294.0	693000.0	3.476313110187907	--
71	THYMOL	Essential Oil	231000.0	600500.0	1.251897456651706	--
16	P-CYMENE	Essential Oil	78300.0	441300.0	3.0099759781102042	--
35	TANNIN	Plant	80000.0	100000.0	0.23890746627510662	--
35	TANNIN	Leaf	16800.0	100000.0	-0.12855505340498594	--
37	CARVACROL	Essential Oil	16700.0	80200.0	-0.7047683392180678	--
11	GAMMA-TERPINENE	Essential Oil	17800.0	49500.0	-0.14620497552360953	--
53	LINALOOL	Essential Oil	28200.0	42800.0	-0.3912382959429395	--
57	ROSMARINIC-ACID	Inflorescence		26000.0	-0.44370755261684197	--
57	ROSMARINIC-ACID	Plant		26000.0	-0.1440410263169351	Fitoterapia No.62: 166.
71	THYMOL	Plant	15.0	24100.0	2.403959600133059	--
28	CALCIUM	Plant	16935.0	22534.0	0.9567743716867843	USDA's Ag Handbook 8 and sequelae)
16	P-CYMENE	Plant	146.0	20800.0	4.994249412924975	--
3	BETA-TERPINEOL	Essential Oil		19800.0	-1.0	--
89	URSOLIC-ACID	Plant	15000.0	18800.0	0.1020852373558865	--
37	CARVACROL	Plant	8.0	18720.0	1.7231339758690776	--
13	PALMITIC-ACID	Plant	17200.0	18576.0	0.13135300956566015	USDA's Ag Handbook 8 and sequelae)
22	MYRCENE	Essential Oil		17500.0	-0.21460744003259294	--
53	LINALOOL	Plant	20.0	17420.0	1.6923500644491847	--
102	CAFFEIC-ACID	Leaf		16900.0	1.6286156543306036	--
28	CALCIUM	Leaf	2806.0	16700.0	-0.11869746309625637	--
1	AMYL-ALCOHOL	Essential Oil		13900.0		--
31	CARYOPHYLLENE	Essential Oil		13600.0	-0.5131215564619739	--
57	ROSMARINIC-ACID	Shoot	5000.0	13500.0	-0.2218024185144439	--
11	ALPHA-PHELLANDRENE	Essential Oil		12500.0	-0.35109578631088695	--
35	GERANIOL	Plant	0.0	10660.0	1.3821598262581827	--
14	POTASSIUM	Leaf	1626.0	9680.0	-0.9124794391445947	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	POTASSIUM	Plant	7667.0	9302.0	-0.8714063817322808	USDA's Ag Handbook 8 and sequelae)
8	4-TERPINEOL	Plant	73.0	8320.0	1.0	--
28	ALPHA-PINENE	Essential Oil		8000.0	-0.489673998831605	--
15	ALPHA-LINOLENIC-ACID	Plant	6900.0	7452.0	0.18376314105806602	USDA's Ag Handbook 8 and sequelae)
23	ALPHA-TERPINEOL	Plant	36.0	6500.0	4.5501166473010075	--
64	OLEANOLIC-ACID	Plant		6300.0	0.6651424785159418	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
11	GAMMA-TERPINENE	Plant	36.0	5460.0	1.6865623237463772	--
3	VALINE	Plant	5020.0	5422.0	-0.5699263899456222	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Plant	5000.0	5400.0	-0.498228841183293	USDA's Ag Handbook 8 and sequelae)
60	LIMONENE	Essential Oil		5300.0	-0.7065592764801447	--
60	LIMONENE	Plant	15.0	5200.0	2.7100484195210193	--
18	OLEIC-ACID	Plant	4700.0	5076.0	0.1061240929953362	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Plant	4680.0	5054.0	-0.6194658766918496	USDA's Ag Handbook 8 and sequelae)
7	LINALYL-ACETATE	Plant	15.0	4680.0	1.672465199772225	--
2	LEUCINE	Plant	4300.0	4644.0	-0.9358077276861205	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Leaf	733.0	4360.0	0.09045438563126122	--
9	CAMPHENE	Essential Oil		4100.0	-0.5707424955262961	--
13	BETA-PINENE	Essential Oil		3400.0	-0.6548910076758792	--
5	GERANYL-ACETATE	Plant	0.0	3380.0	3.505632505880159	--
57	COUMARIN	Essential Oil		3000.0		--
65	MAGNESIUM	Plant	1630.0	2992.0	-0.3334971399346445	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Plant	2520.0	2722.0	-1.0265192446716156	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Plant	2410.0	2603.0	-0.79834365352232	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Plant	2410.0	2603.0	-1.1092448563718826	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	CAPRYLIC-ACID	Plant	2400.0	2592.0	-1.0	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Plant	1703.0	2502.0	-0.5221788524630546	USDA's Ag Handbook 8 and sequelae)
7	LAURIC-ACID	Plant	2300.0	2484.0	-0.35586324954160825	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Plant	2070.0	2236.0	-0.977693978133575	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Plant	1860.0	2009.0	-0.9423278904561724	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Plant	1370.0	1980.0	-6.446701756579119E-4	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Plant	1370.0	1980.0	-0.14920906466229109	--
7	SALICYLATES	Leaf	180.0	1830.0	3.405792573475138	J. Amer. Diet. Ass. 85(8):950.
2	PHYTOSTEROLS	Plant	1520.0	1760.0	1.0113053738948798	--
6	MYRISTIC-ACID	Plant	1500.0	1620.0	0.7382551297828841	USDA's Ag Handbook 8 and sequelae)
47	BETA-SITOSTEROL	Leaf	1520.0	1600.0	-0.21356853970640116	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
28	ALPHA-PINENE	Plant	15.0	1598.0	0.6494097697745248	--
6	IRON	Plant	1075.0	1508.0	1.0375715013534672	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Leaf	250.0	1490.0	-0.3826506505861957	--
35	BORNEOL	Leaf	15.0	1462.0	1.3342119455552743	--
1	SODIUM	Plant	430.0	1341.0	-0.22984526918694634	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	CAPRIC-ACID	Plant	1200.0	1296.0	1.339345677770498	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Leaf	160.0	950.0	-0.7398952649396242	--
5	ALUMINUM	Leaf	155.0	920.0	0.20677516470176702	--
12	BORNYL-ACETATE	Leaf	16.0	795.0	0.024849263231709388	--
22	MYRCENE	Plant	36.0	676.0	0.2665889258585754	--
3	BETA-TERPINEOL	Plant	79.0	673.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	DELTA-3-CARENE	Plant		510.0	1.4050753285540967	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	ALPHA-PHELLANDRENE	Plant	50.0	425.0	1.7924573974319133	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
13	BETA-PINENE	Plant	15.0	420.0	0.018001776257486977	--
25	P-COUMARIC-ACID	Leaf		420.0	-0.2397011509117522	--
9	CAMPHENE	Plant	15.0	375.0	0.03564329014217928	--
6	IRON	Leaf	25.0	147.0	-0.5479717246880129	--
12	STIGMASTEROL	Leaf	80.0	85.0	0.08060609155923636	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
11	NEROLIDOL	Plant		80.0	0.6116455838839169	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
77	ZINC	Plant	55.0	74.0	0.2155665551284883	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Plant		54.0	-0.3183355989371754	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
39	NIACIN	Leaf	9.0	54.0	-0.5291254900954042	--
15	RIBOFLAVIN	Plant	4.0	53.0	2.898116175774351	--
4	BORON	Plant	34.0	48.0	-0.3285060001497114	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron).
41	CAMPHOR	Plant	5.0	45.0	-0.6310839661679942	J. Ethnopharmacology, 39: 167.
3	GENKWANIN	Leaf		43.0		--
2	CAMPESTEROL	Plant		30.0	-0.5969128791852656	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
53	BETA-CAROTENE	Leaf	4.0	25.0	-1.0290654853904624	--

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53	BETA-CAROTENE	Plant	24.0	25.0	-0.5917819689568318	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	SILICON	Leaf	3.4	20.2	-0.35311039000946726	--
9	CIRSIMARITIN	Leaf		20.0		--
4	TIN	Leaf	3.0	17.0	0.16583896593447706	--
60	SELENIUM	Leaf		16.0	0.8468059442367126	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	COBALT	Leaf	2.0	11.3	-0.23172123703899697	--
12	COPPER	Plant	8.0	9.0	-0.5555522679388898	USDA's Ag Handbook 8 and sequelae)
2	8-METHOXY-CIRSILINEOL	Leaf		7.4		--
14	MANGANESE	Leaf	1.0	6.4	-0.44924615028330334	--
31	THIAMIN	Plant	5.0	6.0	-0.13599687437442232	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Leaf	0.7	4.3	-0.15770533507217988	--
11	LITHIUM	Plant		4.0	1.0	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	CHROMIUM	Leaf	0.3	2.0	-0.47584894253972093	--
77	ZINC	Leaf	0.3	1.5	-0.517562565370557	--
112	ASCORBIC-ACID	Leaf		0.0	-0.4439200969762572	--
27	LINOLEIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	CHRYSOERIOL	Plant				Stitt, Paul. Why George should eat broccoli.
7	ISOBORNEOL	Essential Oil				--
2	6-HYDROXY-LUTEOLIN	Leaf				--
37	CARVACROL	Shoot				--
13	DIOSMETIN	Plant				Stitt, Paul. Why George should eat broccoli.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	VANILLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
7	GERMACRONE	Essential Oil				--
9	DELTA-CADINENE	Essential Oil				--
77	CHLOROGENIC-ACID	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
23	ALPHA-TERPINEOL	Essential Oil				--
2	OCIMENE	Essential Oil				--
12	GLYCINE	Plant				Stitt, Paul. Why George should eat broccoli.
3	BETA-PHELLANDRENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
35	GERANIOL	Essential Oil				--
13	ALPHA-TERPINENE	Essential Oil				--
30	MENTHONE	Plant				Stitt, Paul. Why George should eat broccoli.
3	ALANINE	Plant				Stitt, Paul. Why George should eat broccoli.
5	SAPONINS	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
4	COSMOSIIN	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
1	LABIATIC-ACID	Leaf				--
56	NARINGENIN	Plant				--
101	APIGENIN	Plant				--
3	CYNAROSIDE	Plant				--
35	BORNEOL	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	5,4'-DIHYDROXY-6,7,8,3'-TETRAMETHOXYFLAVONE	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
19	CARVONE	Plant				Stitt, Paul. Why George should eat broccoli.
75	KAEMPFEROL	Plant				Stitt, Paul. Why George should eat broccoli.
3	BETA-PHELLANDRENE	Essential Oil				--
62	GALLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
36	ANETHOLE	Essential Oil				--
3	THYMONIN	Plant				--
13	P-HYDROXY-BENZOIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
4	ISOTHYMONIN	Plant				--
6	THYMYL-ACETATE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
4	ISOCHLOROGENIC-ACID	Shoot				--
71	THYMOL	Shoot				--
78	LUTEOLIN	Plant				--
53	CITRAL	Plant				Stitt, Paul. Why George should eat broccoli.
3	4'5-DIHYDROXY-3',6,7-TRIMETHOXYFLAVONE	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	THYMONIN	Leaf				--
4	COSMOSIIN	Plant				--
61	FERULIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
3	LITHOSPERMIC-ACID	Shoot				--
10	CIRSILINEOL	Leaf				--
23	TERPINEN-4-OL	Essential Oil				--
16	ISOEUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.

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77	CHLOROGENIC-ACID	Shoot				--
76	EUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.
18	CINNAMIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
5	SCLAREOL	Essential Oil				--
18	OLEIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	ISOCHLOROGENIC-ACID	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
78	LUTEOLIN	Leaf				--
13	ALPHA-TERPINENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
10	ERIODICTYOL	Plant				--