

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Thymus vulgaris*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
71	THYMOL	Essential Oil	231000.0	600500.0	1.251897456651706	--
15	FIBER	Plant	179294.0	693000.0	3.476313110187907	--
35	TANNIN	Plant	80000.0	100000.0	0.23890746627510662	--
16	P-CYMENE	Essential Oil	78300.0	441300.0	3.0099759781102042	--
53	LINALOOL	Essential Oil	28200.0	42800.0	-0.3912382959429395	--
11	GAMMA-TERPINENE	Essential Oil	17800.0	49500.0	-0.14620497552360953	--
13	PALMITIC-ACID	Plant	17200.0	18576.0	0.13135300956566015	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Plant	16935.0	22534.0	0.9567743716867843	USDA's Ag Handbook 8 and sequelae)
35	TANNIN	Leaf	16800.0	100000.0	-0.12855505340498594	--
37	CARVACROL	Essential Oil	16700.0	80200.0	-0.7047683392180678	--
89	URSOLIC-ACID	Plant	15000.0	18800.0	0.1020852373558865	--
14	POTASSIUM	Plant	7667.0	9302.0	-0.8714063817322808	USDA's Ag Handbook 8 and sequelae)
15	ALPHA-LINOLENIC-ACID	Plant	6900.0	7452.0	0.18376314105806602	USDA's Ag Handbook 8 and sequelae)
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)
57	ROSMARINIC-ACID	Shoot	5000.0	13500.0	-0.2218024185144439	--
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)
2	LEUCINE	Plant	4300.0	4644.0	-0.9358077276861205	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Leaf	2806.0	16700.0	-0.11869746309625637	--
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)
5	CAPRYLIC-ACID	Plant	2400.0	2592.0	-1.0	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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)
4	PHOSPHORUS	Plant	1703.0	2502.0	-0.5221788524630546	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Plant	1630.0	2992.0	-0.3334971399346445	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Leaf	1626.0	9680.0	-0.9124794391445947	--
2	PHYTOSTEROLS	Plant	1520.0	1760.0	1.0113053738948798	--
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.)
6	MYRISTIC-ACID	Plant	1500.0	1620.0	0.7382551297828841	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	--
3	CAPRIC-ACID	Plant	1200.0	1296.0	1.339345677770498	USDA's Ag Handbook 8 and sequelae)
6	IRON	Plant	1075.0	1508.0	1.0375715013534672	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Leaf	733.0	4360.0	0.09045438563126122	--
1	SODIUM	Plant	430.0	1341.0	-0.22984526918694634	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	SODIUM	Leaf	250.0	1490.0	-0.3826506505861957	--
7	SALICYLATES	Leaf	180.0	1830.0	3.405792573475138	J. Amer. Diet. Ass. 85(8):950.
4	PHOSPHORUS	Leaf	160.0	950.0	-0.7398952649396242	--
5	ALUMINUM	Leaf	155.0	920.0	0.20677516470176702	--
16	P-CYMENE	Plant	146.0	20800.0	4.994249412924975	--
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.)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
8	4-TERPINEOL	Plant	73.0	8320.0	1.0	--
77	ZINC	Plant	55.0	74.0	0.2155665551284883	USDA's Ag Handbook 8 and sequelae)
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.
11	GAMMA-TERPINENE	Plant	36.0	5460.0	1.6865623237463772	--
23	ALPHA-TERPINEOL	Plant	36.0	6500.0	4.5501166473010075	--
22	MYRCENE	Plant	36.0	676.0	0.2665889258585754	--
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).
6	IRON	Leaf	25.0	147.0	-0.5479717246880129	--
53	BETA-CAROTENE	Plant	24.0	25.0	-0.5917819689568318	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
53	LINALOOL	Plant	20.0	17420.0	1.6923500644491847	--
12	BORNYL-ACETATE	Leaf	16.0	795.0	0.024849263231709388	--
60	LIMONENE	Plant	15.0	5200.0	2.7100484195210193	--
28	ALPHA-PINENE	Plant	15.0	1598.0	0.6494097697745248	--
13	BETA-PINENE	Plant	15.0	420.0	0.018001776257486977	--
9	CAMPHENE	Plant	15.0	375.0	0.03564329014217928	--
7	LINALYL-ACETATE	Plant	15.0	4680.0	1.672465199772225	--
35	BORNEOL	Leaf	15.0	1462.0	1.3342119455552743	--
71	THYMOL	Plant	15.0	24100.0	2.403959600133059	--
39	NIACIN	Leaf	9.0	54.0	-0.5291254900954042	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	COPPER	Plant	8.0	9.0	-0.5555522679388898	USDA's Ag Handbook 8 and sequelae)
37	CARVACROL	Plant	8.0	18720.0	1.7231339758690776	--
41	CAMPHOR	Plant	5.0	45.0	-0.6310839661679942	J. Ethnopharmacology, 39: 167.
31	THIAMIN	Plant	5.0	6.0	-0.13599687437442232	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Plant	4.0	53.0	2.898116175774351	--
53	BETA-CAROTENE	Leaf	4.0	25.0	-1.0290654853904624	--
4	SILICON	Leaf	3.4	20.2	-0.35311039000946726	--
4	TIN	Leaf	3.0	17.0	0.16583896593447706	--
2	COBALT	Leaf	2.0	11.3	-0.23172123703899697	--
14	MANGANESE	Leaf	1.0	6.4	-0.44924615028330334	--
15	RIBOFLAVIN	Leaf	0.7	4.3	-0.15770533507217988	--
24	CHROMIUM	Leaf	0.3	2.0	-0.47584894253972093	--
77	ZINC	Leaf	0.3	1.5	-0.517562565370557	--
5	GERANYL-ACETATE	Plant	0.0	3380.0	3.505632505880159	--
35	GERANIOL	Plant	0.0	10660.0	1.3821598262581827	--
37	CARVACROL	Shoot				--
101	APIGENIN	Plant				--
2	5,4'-DIHYDROXY-6,7,8,3'-TETRAMETHOXYFLAVONE	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
3	BETA-TERPINEOL	Essential Oil		19800.0	-1.0	--
24	VANILLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
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.
7	GERMACRONE	Essential Oil				--
75	KAEMPFEROL	Plant				Stitt, Paul. Why George should eat broccoli.
9	CIRSIMARITIN	Leaf		20.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
62	GALLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
36	ANETHOLE	Essential Oil				--
23	ALPHA-TERPINEOL	Essential Oil				--
2	OCIMENE	Essential Oil				--
35	GERANIOL	Essential Oil				--
4	ISOTHYMONIN	Plant				--
60	LIMONENE	Essential Oil		5300.0	-0.7065592764801447	--
1	AMYL-ALCOHOL	Essential Oil		13900.0		--
13	ALPHA-TERPINENE	Essential Oil				--
78	LUTEOLIN	Plant				--
53	CITRAL	Plant				Stitt, Paul. Why George should eat broccoli.
39	NIACIN	Plant		54.0	-0.3183355989371754	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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	GENKWANIN	Leaf		43.0		--
102	CAFFEIC-ACID	Leaf		16900.0	1.6286156543306036	--
31	CARYOPHYLLENE	Essential Oil		13600.0	-0.5131215564619739	--
30	MENTHONE	Plant				Stitt, Paul. Why George should eat broccoli.
61	FERULIC-ACID	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.
57	ROSMARINIC-ACID	Inflorescence		26000.0	-0.44370755261684197	--
3	LITHOSPERMIC-ACID	Shoot				--
10	CIRSILINEOL	Leaf				--

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11	NEROLIDOL	Plant		80.0	0.6116455838839169	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
16	ISOEUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.
9	CAMPHENE	Essential Oil		4100.0	-0.5707424955262961	--
76	EUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.
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.)
13	BETA-PINENE	Essential Oil		3400.0	-0.6548910076758792	--
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.
18	CINNAMIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
56	NARINGENIN	Plant				--
3	CYNAROSIDE	Plant				--
4	ISOCHLOROGENIC-ACID	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
60	SELENIUM	Leaf		16.0	0.8468059442367126	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
35	BORNEOL	Essential Oil				--
10	ERIODICTYOL	Plant				--
13	ALPHA-TERPINENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
19	CARVONE	Plant				Stitt, Paul. Why George should eat broccoli.
3	BETA-PHELLANDRENE	Essential Oil				--

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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.
57	COUMARIN	Essential Oil		3000.0		--
7	ISOBORNEOL	Essential Oil				--
3	THYMONIN	Plant				--
13	DIOSMETIN	Plant				Stitt, Paul. Why George should eat broccoli.
13	P-HYDROXY-BENZOIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
28	ALPHA-PINENE	Essential Oil		8000.0	-0.489673998831605	--
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				--
9	DELTA-CADINENE	Essential Oil				--
11	ALPHA-PHELLANDRENE	Essential Oil		12500.0	-0.35109578631088695	--
3	THYMONIN	Leaf				--
77	CHLOROGENIC-ACID	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	COSMOSIIN	Plant				--
12	GLYCINE	Plant				Stitt, Paul. Why George should eat broccoli.
57	ROSMARINIC-ACID	Plant		26000.0	-0.1440410263169351	Fitoterapia No.62: 166.
3	BETA-PHELLANDRENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

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25	P-COUMARIC-ACID	Leaf		420.0	-0.2397011509117522	--
23	TERPINEN-4-OL	Essential Oil				--
8	DELTA-3-CARENE	Plant		510.0	1.4050753285540967	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
22	MYRCENE	Essential Oil		17500.0	-0.21460744003259294	--
77	CHLOROGENIC-ACID	Shoot				--
3	ALANINE	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.
78	LUTEOLIN	Leaf				--
112	ASCORBIC-ACID	Leaf		0.0	-0.4439200969762572	--
2	8-METHOXY-CIRSILINEOL	Leaf		7.4		--
4	COSMOSIIN	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	6-HYDROXY-LUTEOLIN	Leaf				--
1	LABIATIC-ACID	Leaf				--