

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Thymus vulgaris*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
112	ASCORBIC-ACID	Leaf		0.0	-0.4439200969762572	--
102	CAFFEIC-ACID	Leaf		16900.0	1.6286156543306036	--
101	APIGENIN	Plant				--
89	URSOLIC-ACID	Plant	15000.0	18800.0	0.1020852373558865	--
78	LUTEOLIN	Plant				--
78	LUTEOLIN	Leaf				--
77	CHLOROGENIC-ACID	Shoot				--
77	ZINC	Plant	55.0	74.0	0.2155665551284883	USDA's Ag Handbook 8 and sequelae)
77	ZINC	Leaf	0.3	1.5	-0.517562565370557	--
77	CHLOROGENIC-ACID	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
76	EUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.
75	KAEMPFEROL	Plant				Stitt, Paul. Why George should eat broccoli.
71	THYMOL	Shoot				--
71	THYMOL	Essential Oil	231000.0	600500.0	1.251897456651706	--
71	THYMOL	Plant	15.0	24100.0	2.403959600133059	--
65	MAGNESIUM	Plant	1630.0	2992.0	-0.3334971399346445	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Leaf	733.0	4360.0	0.09045438563126122	--
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.
62	GALLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
61	FERULIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
60	LIMONENE	Essential Oil		5300.0	-0.7065592764801447	--
60	LIMONENE	Plant	15.0	5200.0	2.7100484195210193	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	SELENIUM	Leaf		16.0	0.8468059442367126	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
57	COUMARIN	Essential Oil		3000.0		--
57	ROSMARINIC-ACID	Shoot	5000.0	13500.0	-0.2218024185144439	--
57	ROSMARINIC-ACID	Plant		26000.0	-0.1440410263169351	Fitoterapia No.62: 166.
57	ROSMARINIC-ACID	Inflorescence		26000.0	-0.44370755261684197	--
56	NARINGENIN	Plant				--
53	CITRAL	Plant				Stitt, Paul. Why George should eat broccoli.
53	BETA-CAROTENE	Leaf	4.0	25.0	-1.0290654853904624	--
53	LINALOOL	Essential Oil	28200.0	42800.0	-0.3912382959429395	--
53	LINALOOL	Plant	20.0	17420.0	1.6923500644491847	--
53	BETA-CAROTENE	Plant	24.0	25.0	-0.5917819689568318	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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.)
41	CAMPHOR	Plant	5.0	45.0	-0.6310839661679942	J. Ethnopharmacology, 39: 167.
39	NIACIN	Leaf	9.0	54.0	-0.5291254900954042	--
39	NIACIN	Plant		54.0	-0.3183355989371754	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
37	CARVACROL	Essential Oil	16700.0	80200.0	-0.7047683392180678	--
37	CARVACROL	Shoot				--
37	CARVACROL	Plant	8.0	18720.0	1.7231339758690776	--
36	ANETHOLE	Essential Oil				--
35	GERANIOL	Plant	0.0	10660.0	1.3821598262581827	--
35	TANNIN	Leaf	16800.0	100000.0	-0.12855505340498594	--
35	BORNEOL	Leaf	15.0	1462.0	1.3342119455552743	--
35	TANNIN	Plant	80000.0	100000.0	0.23890746627510662	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	GERANIOL	Essential Oil				--
35	BORNEOL	Essential Oil				--
31	THIAMIN	Plant	5.0	6.0	-0.13599687437442232	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
31	CARYOPHYLLENE	Essential Oil		13600.0	-0.5131215564619739	--
30	MENTHONE	Plant				Stitt, Paul. Why George should eat broccoli.
29	TRYPTOPHAN	Plant	1860.0	2009.0	-0.9423278904561724	USDA's Ag Handbook 8 and sequelae)
28	ALPHA-PINENE	Essential Oil		8000.0	-0.489673998831605	--
28	CALCIUM	Plant	16935.0	22534.0	0.9567743716867843	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Leaf	2806.0	16700.0	-0.11869746309625637	--
28	ALPHA-PINENE	Plant	15.0	1598.0	0.6494097697745248	--
27	LINOLEIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
27	LINOLEIC-ACID	Plant	5000.0	5400.0	-0.498228841183293	USDA's Ag Handbook 8 and sequelae)
25	P-COUMARIC-ACID	Leaf		420.0	-0.2397011509117522	--
24	VANILLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
24	CHROMIUM	Leaf	0.3	2.0	-0.47584894253972093	--
23	TERPINEN-4-OL	Essential Oil				--
23	ALPHA-TERPINEOL	Plant	36.0	6500.0	4.5501166473010075	--
23	ALPHA-TERPINEOL	Essential Oil				--
22	MYRCENE	Essential Oil		17500.0	-0.21460744003259294	--
22	MYRCENE	Plant	36.0	676.0	0.2665889258585754	--
19	CARVONE	Plant				Stitt, Paul. Why George should eat broccoli.
18	OLEIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	OLEIC-ACID	Plant	4700.0	5076.0	0.1061240929953362	USDA's Ag Handbook 8 and sequelae)
18	CINNAMIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
16	P-CYMENE	Plant	146.0	20800.0	4.994249412924975	--
16	ISOEUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.
16	P-CYMENE	Essential Oil	78300.0	441300.0	3.0099759781102042	--
15	RIBOFLAVIN	Leaf	0.7	4.3	-0.15770533507217988	--
15	FIBER	Plant	179294.0	693000.0	3.476313110187907	--
15	RIBOFLAVIN	Plant	4.0	53.0	2.898116175774351	--
15	ALPHA-LINOLENIC-ACID	Plant	6900.0	7452.0	0.18376314105806602	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Plant	1370.0	1980.0	-6.446701756579119E-4	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Plant	7667.0	9302.0	-0.8714063817322808	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Leaf	1626.0	9680.0	-0.9124794391445947	--
14	MANGANESE	Leaf	1.0	6.4	-0.44924615028330334	--
13	P-HYDROXY-BENZOIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
13	ALPHA-TERPINENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
13	DIOSMETIN	Plant				Stitt, Paul. Why George should eat broccoli.
13	ALPHA-TERPINENE	Essential Oil				--
13	BETA-PINENE	Plant	15.0	420.0	0.018001776257486977	--
13	BETA-PINENE	Essential Oil		3400.0	-0.6548910076758792	--
13	PALMITIC-ACID	Plant	17200.0	18576.0	0.13135300956566015	USDA's Ag Handbook 8 and sequelae)
12	COPPER	Plant	8.0	9.0	-0.5555522679388898	USDA's Ag Handbook 8 and sequelae)
12	BORNYL-ACETATE	Leaf	16.0	795.0	0.024849263231709388	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.)
12	GLYCINE	Plant				Stitt, Paul. Why George should eat broccoli.
11	GAMMA-TERPINENE	Plant	36.0	5460.0	1.6865623237463772	--
11	ALPHA-PHELLANDRENE	Essential Oil		12500.0	-0.35109578631088695	--
11	GAMMA-TERPINENE	Essential Oil	17800.0	49500.0	-0.14620497552360953	--
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.
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	NEROLIDOL	Plant		80.0	0.6116455838839169	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
10	CIRSILINEOL	Leaf				--
10	ERIODICTYOL	Plant				--
9	CAMPHENE	Plant	15.0	375.0	0.03564329014217928	--
9	CIRSIMARITIN	Leaf		20.0		--
9	DELTA-CADINENE	Essential Oil				--
9	CAMPHENE	Essential Oil		4100.0	-0.5707424955262961	--
8	4-TERPINEOL	Plant	73.0	8320.0	1.0	--
8	TYROSINE	Plant	2410.0	2603.0	-0.79834365352232	USDA's Ag Handbook 8 and sequelae)
8	DELTA-3-CARENE	Plant		510.0	1.4050753285540967	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
7	LAURIC-ACID	Plant	2300.0	2484.0	-0.35586324954160825	USDA's Ag Handbook 8 and sequelae)
7	SALICYLATES	Leaf	180.0	1830.0	3.405792573475138	J. Amer. Diet. Ass. 85(8):950.
7	GERMACRONE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	CHRYSOERIOL	Plant				Stitt, Paul. Why George should eat broccoli.
7	ISOBORNEOL	Essential Oil				--
7	LINALYL-ACETATE	Plant	15.0	4680.0	1.672465199772225	--
7	PHENYLALANINE	Plant	2410.0	2603.0	-1.1092448563718826	USDA's Ag Handbook 8 and sequelae)
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.
6	IRON	Leaf	25.0	147.0	-0.5479717246880129	--
6	MYRISTIC-ACID	Plant	1500.0	1620.0	0.7382551297828841	USDA's Ag Handbook 8 and sequelae)
6	IRON	Plant	1075.0	1508.0	1.0375715013534672	USDA's Ag Handbook 8 and sequelae)
5	CAPRYLIC-ACID	Plant	2400.0	2592.0	-1.0	USDA's Ag Handbook 8 and sequelae)
5	SCLAREOL	Essential Oil				--
5	ALUMINUM	Leaf	155.0	920.0	0.20677516470176702	--
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.
5	GERANYL-ACETATE	Plant	0.0	3380.0	3.505632505880159	--
4	TIN	Leaf	3.0	17.0	0.16583896593447706	--
4	COSMOSIIN	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
4	ISOCHLOROGENIC-ACID	Shoot				--
4	COSMOSIIN	Plant				--
4	LYSINE	Plant	2070.0	2236.0	-0.977693978133575	USDA's Ag Handbook 8 and sequelae)
4	ISOTHYMONIN	Plant				--
4	THREONINE	Plant	2520.0	2722.0	-1.0265192446716156	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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).
4	ISOCHLOROGENIC-ACID	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
4	PHOSPHORUS	Plant	1703.0	2502.0	-0.5221788524630546	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Leaf	160.0	950.0	-0.7398952649396242	--
4	SILICON	Leaf	3.4	20.2	-0.35311039000946726	--
3	BETA-PHELLANDRENE	Essential Oil				--
3	THYMONIN	Plant				--
3	CAPRIC-ACID	Plant	1200.0	1296.0	1.339345677770498	USDA's Ag Handbook 8 and sequelae)
3	THYMONIN	Leaf				--
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	ISOLEUCINE	Plant	4680.0	5054.0	-0.6194658766918496	USDA's Ag Handbook 8 and sequelae)
3	LITHOSPERMIC-ACID	Shoot				--
3	BETA-TERPINEOL	Essential Oil		19800.0	-1.0	--
3	VALINE	Plant	5020.0	5422.0	-0.5699263899456222	USDA's Ag Handbook 8 and sequelae)
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.
3	GENKWANIN	Leaf		43.0		--
3	BETA-PHELLANDRENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	CYNAROSIDE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ALANINE	Plant				Stitt, Paul. Why George should eat broccoli.
2	8-METHOXY-CIRSILINEOL	Leaf		7.4		--
2	5,4'-DIHYDROXY-6,7,8,3'-TETRAMETHOXYFLAVONE	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
2	COBALT	Leaf	2.0	11.3	-0.23172123703899697	--
2	6-HYDROXY-LUTEOLIN	Leaf				--
2	PHYTOSTEROLS	Plant	1520.0	1760.0	1.0113053738948798	--
2	OCIMENE	Essential Oil				--
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.)
2	LEUCINE	Plant	4300.0	4644.0	-0.9358077276861205	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Plant	1370.0	1980.0	-0.14920906466229109	--
1	LABIATIC-ACID	Leaf				--
1	AMYL-ALCOHOL	Essential Oil		13900.0		--
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	--