Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Thymus vulgaris

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
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.
8	4-TERPINEOL	Plant	73.0	8320.0	1.0	--
2	5,4'-DIHYDROXY-6,7,8,3'-TETRAMETHOXYFLAVONE	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
2	6-HYDROXY-LUTEOLIN	Leaf				--
2	8-METHOXY-CIRSILINEOL	Leaf		7.4		--
3	ALANINE	Plant				Stitt, Paul. Why George should eat broccoli.
15	ALPHA-LINOLENIC-ACID	Plant	6900.0	7452.0	0.18376314105806602	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	ALPHA-PHELLANDRENE	Essential Oil		12500.0	-0.35109578631088695	--
28	ALPHA-PINENE	Plant	15.0	1598.0	0.6494097697745248	--
28	ALPHA-PINENE	Essential Oil		8000.0	-0.489673998831605	--
13	ALPHA-TERPINENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
13	ALPHA-TERPINENE	Essential Oil				--
23	ALPHA-TERPINEOL	Plant	36.0	6500.0	4.5501166473010075	--
23	ALPHA-TERPINEOL	Essential Oil				--
5	ALUMINUM	Leaf	155.0	920.0	0.20677516470176702	--
1	AMYL-ALCOHOL	Essential Oil		13900.0		--
36	ANETHOLE	Essential Oil				--
101	APIGENIN	Plant				--
112	ASCORBIC-ACID	Leaf		0.0	-0.4439200969762572	--
53	BETA-CAROTENE	Plant	24.0	25.0	-0.5917819689568318	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
53	BETA-CAROTENE	Leaf	4.0	25.0	-1.0290654853904624	--
3	BETA-PHELLANDRENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	BETA-PHELLANDRENE	Essential Oil				--
13	BETA-PINENE	Plant	15.0	420.0	0.018001776257486977	--
13	BETA-PINENE	Essential Oil		3400.0	-0.6548910076758792	--
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.)
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	BETA-TERPINEOL	Essential Oil		19800.0	-1.0	--
35	BORNEOL	Essential Oil				--
35	BORNEOL	Leaf	15.0	1462.0	1.3342119455552743	--
12	BORNYL-ACETATE	Leaf	16.0	795.0	0.024849263231709388	--
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).
102	CAFFEIC-ACID	Leaf		16900.0	1.6286156543306036	--
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	--
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.)
9	CAMPHENE	Essential Oil		4100.0	-0.5707424955262961	--
9	CAMPHENE	Plant	15.0	375.0	0.03564329014217928	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
41	CAMPHOR	Plant	5.0	45.0	-0.6310839661679942	J. Ethnopharmacology, 39: 167.
3	CAPRIC-ACID	Plant	1200.0	1296.0	1.339345677770498	USDA's Ag Handbook 8 and sequelae)
5	CAPRYLIC-ACID	Plant	2400.0	2592.0	-1.0	USDA's Ag Handbook 8 and sequelae)
37	CARVACROL	Plant	8.0	18720.0	1.7231339758690776	--
37	CARVACROL	Essential Oil	16700.0	80200.0	-0.7047683392180678	--
37	CARVACROL	Shoot				--
19	CARVONE	Plant				Stitt, Paul. Why George should eat broccoli.
31	CARYOPHYLLENE	Essential Oil		13600.0	-0.5131215564619739	--
77	CHLOROGENIC-ACID	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
77	CHLOROGENIC-ACID	Shoot				--
24	CHROMIUM	Leaf	0.3	2.0	-0.47584894253972093	--
7	CHRYSOERIOL	Plant				Stitt, Paul. Why George should eat broccoli.
18	CINNAMIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
10	CIRSILINEOL	Leaf				--
9	CIRSIMARITIN	Leaf		20.0		--
53	CITRAL	Plant				Stitt, Paul. Why George should eat broccoli.
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)
4	COSMOSIIN	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
4	COSMOSIIN	Plant				--
57	COUMARIN	Essential Oil		3000.0		--
3	CYNAROSIDE	Plant				--
2	CYSTINE	Plant	1370.0	1980.0	-0.14920906466229109	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
8	DELTA-3-CARENE	Plant		510.0	1.4050753285540967	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	DELTA-CADINENE	Essential Oil				--
13	DIOSMETIN	Plant				Stitt, Paul. Why George should eat broccoli.
10	ERIODICTYOL	Plant				--
76	EUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.
61	FERULIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
15	FIBER	Plant	179294.0	693000.0	3.476313110187907	--
62	GALLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
11	GAMMA-TERPINENE	Plant	36.0	5460.0	1.6865623237463772	--
11	GAMMA-TERPINENE	Essential Oil	17800.0	49500.0	-0.14620497552360953	--
3	GENKWANIN	Leaf		43.0		--
35	GERANIOL	Plant	0.0	10660.0	1.3821598262581827	--
35	GERANIOL	Essential Oil				--
5	GERANYL-ACETATE	Plant	0.0	3380.0	3.505632505880159	--
7	GERMACRONE	Essential Oil				--
12	GLYCINE	Plant				Stitt, Paul. Why George should eat broccoli.
6	IRON	Plant	1075.0	1508.0	1.0375715013534672	USDA's Ag Handbook 8 and sequelae)
6	IRON	Leaf	25.0	147.0	-0.5479717246880129	--
7	ISOBORNEOL	Essential Oil				--
4	ISOCHLOROGENIC-ACID	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
4	ISOCHLOROGENIC-ACID	Shoot				--
16	ISOEUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.
3	ISOLEUCINE	Plant	4680.0	5054.0	-0.6194658766918496	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
4	ISOTHYMONIN	Plant				--
75	KAEMPFEROL	Plant				Stitt, Paul. Why George should eat broccoli.
1	LABIATIC-ACID	Leaf				--
7	LAURIC-ACID	Plant	2300.0	2484.0	-0.35586324954160825	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Plant	4300.0	4644.0	-0.9358077276861205	USDA's Ag Handbook 8 and sequelae)
60	LIMONENE	Plant	15.0	5200.0	2.7100484195210193	--
60	LIMONENE	Essential Oil		5300.0	-0.7065592764801447	--
53	LINALOOL	Essential Oil	28200.0	42800.0	-0.3912382959429395	--
53	LINALOOL	Plant	20.0	17420.0	1.6923500644491847	--
7	LINALYL-ACETATE	Plant	15.0	4680.0	1.672465199772225	--
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)
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.
3	LITHOSPERMIC-ACID	Shoot				--
78	LUTEOLIN	Leaf				--
78	LUTEOLIN	Plant				--
4	LYSINE	Plant	2070.0	2236.0	-0.977693978133575	USDA's Ag Handbook 8 and sequelae)
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	--
14	MANGANESE	Leaf	1.0	6.4	-0.44924615028330334	--
30	MENTHONE	Plant				Stitt, Paul. Why George should eat broccoli.
15	METHIONINE	Plant	1370.0	1980.0	-6.446701756579119E-4	USDA's Ag Handbook 8 and sequelae)
22	MYRCENE	Plant	36.0	676.0	0.2665889258585754	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
22	MYRCENE	Essential Oil		17500.0	-0.21460744003259294	--
6	MYRISTIC-ACID	Plant	1500.0	1620.0	0.7382551297828841	USDA's Ag Handbook 8 and sequelae)
56	NARINGENIN	Plant				--
11	NEROLIDOL	Plant		80.0	0.6116455838839169	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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
2	OCIMENE	Essential Oil				--
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.
18	OLEIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
18	OLEIC-ACID	Plant	4700.0	5076.0	0.1061240929953362	USDA's Ag Handbook 8 and sequelae)
25	P-COUMARIC-ACID	Leaf		420.0	-0.2397011509117522	--
16	P-CYMENE	Essential Oil	78300.0	441300.0	3.0099759781102042	--
16	P-CYMENE	Plant	146.0	20800.0	4.994249412924975	--
13	P-HYDROXY-BENZOIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
13	PALMITIC-ACID	Plant	17200.0	18576.0	0.13135300956566015	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Plant	2410.0	2603.0	-1.1092448563718826	USDA's Ag Handbook 8 and sequelae)
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	--
2	PHYTOSTEROLS	Plant	1520.0	1760.0	1.0113053738948798	--
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	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
15	RIBOFLAVIN	Plant	4.0	53.0	2.898116175774351	--
15	RIBOFLAVIN	Leaf	0.7	4.3	-0.15770533507217988	--
57	ROSMARINIC-ACID	Inflorescence		26000.0	-0.44370755261684197	--
57	ROSMARINIC-ACID	Shoot	5000.0	13500.0	-0.2218024185144439	--
57	ROSMARINIC-ACID	Plant		26000.0	-0.1440410263169351	Fitoterapia No.62: 166.
7	SALICYLATES	Leaf	180.0	1830.0	3.405792573475138	J. Amer. Diet. Ass. 85{8}:950.
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	SCLAREOL	Essential Oil				--
60	SELENIUM	Leaf		16.0	0.8468059442367126	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	SILICON	Leaf	3.4	20.2	-0.35311039000946726	--
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	--
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.)
35	TANNIN	Leaf	16800.0	100000.0	-0.12855505340498594	--
35	TANNIN	Plant	80000.0	100000.0	0.23890746627510662	--
23	TERPINEN-4-OL	Essential Oil				--
31	THIAMIN	Plant	5.0	6.0	-0.13599687437442232	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	THREONINE	Plant	2520.0	2722.0	-1.0265192446716156	USDA's Ag Handbook 8 and sequelae)
71	THYMOL	Shoot				--
71	THYMOL	Essential Oil	231000.0	600500.0	1.251897456651706	--
71	THYMOL	Plant	15.0	24100.0	2.403959600133059	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
3	THYMONIN	Plant				--
3	THYMONIN	Leaf				--
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	TIN	Leaf	3.0	17.0	0.16583896593447706	--
29	TRYPTOPHAN	Plant	1860.0	2009.0	-0.9423278904561724	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Plant	2410.0	2603.0	-0.79834365352232	USDA's Ag Handbook 8 and sequelae)
89	URSOLIC-ACID	Plant	15000.0	18800.0	0.1020852373558865	--
3	VALINE	Plant	5020.0	5422.0	-0.5699263899456222	USDA's Ag Handbook 8 and sequelae)
24	VANILLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
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	--