

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	Leaf				--
78	LUTEOLIN	Plant				--
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.
77	CHLOROGENIC-ACID	Shoot				--
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	Plant	15.0	24100.0	2.403959600133059	--
71	THYMOL	Essential Oil	231000.0	600500.0	1.251897456651706	--
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	Plant	15.0	5200.0	2.7100484195210193	--
60	LIMONENE	Essential Oil		5300.0	-0.7065592764801447	--

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	ROSMARINIC-ACID	Shoot	5000.0	13500.0	-0.2218024185144439	--
57	ROSMARINIC-ACID	Plant		26000.0	-0.1440410263169351	Fitoterapia No.62: 166.
57	COUMARIN	Essential Oil		3000.0		--
57	ROSMARINIC-ACID	Inflorescence		26000.0	-0.44370755261684197	--
56	NARINGENIN	Plant				--
53	BETA-CAROTENE	Plant	24.0	25.0	-0.5917819689568318	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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	CITRAL	Plant				Stitt, Paul. Why George should eat broccoli.
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	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	--
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	TANNIN	Plant	80000.0	100000.0	0.23890746627510662	--
35	BORNEOL	Leaf	15.0	1462.0	1.3342119455552743	--
35	TANNIN	Leaf	16800.0	100000.0	-0.12855505340498594	--
35	BORNEOL	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	GERANIOL	Plant	0.0	10660.0	1.3821598262581827	--
35	GERANIOL	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	Plant	15.0	1598.0	0.6494097697745248	--
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	--
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	Essential Oil				--
23	ALPHA-TERPINEOL	Plant	36.0	6500.0	4.5501166473010075	--
22	MYRCENE	Plant	36.0	676.0	0.2665889258585754	--
22	MYRCENE	Essential Oil		17500.0	-0.21460744003259294	--
19	CARVONE	Plant				Stitt, Paul. Why George should eat broccoli.
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	OLEIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
16	P-CYMENE	Essential Oil	78300.0	441300.0	3.0099759781102042	--
16	ISOEUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.
16	P-CYMENE	Plant	146.0	20800.0	4.994249412924975	--
15	METHIONINE	Plant	1370.0	1980.0	-6.446701756579119E-4	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)
15	RIBOFLAVIN	Plant	4.0	53.0	2.898116175774351	--
15	FIBER	Plant	179294.0	693000.0	3.476313110187907	--
15	RIBOFLAVIN	Leaf	0.7	4.3	-0.15770533507217988	--
14	MANGANESE	Leaf	1.0	6.4	-0.44924615028330334	--
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	--
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	PALMITIC-ACID	Plant	17200.0	18576.0	0.13135300956566015	USDA's Ag Handbook 8 and sequelae)
13	P-HYDROXY-BENZOIC-ACID	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	--
12	GLYCINE	Plant				Stitt, Paul. Why George should eat broccoli.
12	BORNYL-ACETATE	Leaf	16.0	795.0	0.024849263231709388	--
12	COPPER	Plant	8.0	9.0	-0.5555522679388898	USDA's Ag Handbook 8 and sequelae)

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.)
11	GAMMA-TERPINENE	Plant	36.0	5460.0	1.6865623237463772	--
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	--
11	GAMMA-TERPINENE	Essential Oil	17800.0	49500.0	-0.14620497552360953	--
11	NEROLIDOL	Plant		80.0	0.6116455838839169	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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.
10	ERIODICTYOL	Plant				--
10	CIRSILINEOL	Leaf				--
9	DELTA-CADINENE	Essential Oil				--
9	CAMPHENE	Plant	15.0	375.0	0.03564329014217928	--
9	CIRSIMARITIN	Leaf		20.0		--
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	SALICYLATES	Leaf	180.0	1830.0	3.405792573475138	J. Amer. Diet. Ass. 85(8):950.
7	PHENYLALANINE	Plant	2410.0	2603.0	-1.1092448563718826	USDA's Ag Handbook 8 and sequelae)
7	LINALYL-ACETATE	Plant	15.0	4680.0	1.672465199772225	--
7	ISOBORNEOL	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	LAURIC-ACID	Plant	2300.0	2484.0	-0.35586324954160825	USDA's Ag Handbook 8 and sequelae)
7	GERMACRONE	Essential Oil				--
6	IRON	Plant	1075.0	1508.0	1.0375715013534672	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	MYRISTIC-ACID	Plant	1500.0	1620.0	0.7382551297828841	USDA's Ag Handbook 8 and sequelae)
6	IRON	Leaf	25.0	147.0	-0.5479717246880129	--
5	CAPRYLIC-ACID	Plant	2400.0	2592.0	-1.0	USDA's Ag Handbook 8 and sequelae)
5	SCLAREOL	Essential Oil				--
5	GERANYL-ACETATE	Plant	0.0	3380.0	3.505632505880159	--
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.
4	ISOTHYMONIN	Plant				--
4	PHOSPHORUS	Plant	1703.0	2502.0	-0.5221788524630546	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Plant	2520.0	2722.0	-1.0265192446716156	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Leaf	160.0	950.0	-0.7398952649396242	--
4	ISOCHLOROGENIC-ACID	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
4	LYSINE	Plant	2070.0	2236.0	-0.977693978133575	USDA's Ag Handbook 8 and sequelae)
4	TIN	Leaf	3.0	17.0	0.16583896593447706	--
4	ISOCHLOROGENIC-ACID	Shoot				--

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	COSMOSIIN	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
4	COSMOSIIN	Plant				--
4	SILICON	Leaf	3.4	20.2	-0.35311039000946726	--
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	BETA-PHELLANDRENE	Essential Oil				--
3	VALINE	Plant	5020.0	5422.0	-0.5699263899456222	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Plant	4680.0	5054.0	-0.6194658766918496	USDA's Ag Handbook 8 and sequelae)
3	CAPRIC-ACID	Plant	1200.0	1296.0	1.339345677770498	USDA's Ag Handbook 8 and sequelae)
3	CYNAROSIDE	Plant				--
3	BETA-TERPINEOL	Essential Oil		19800.0	-1.0	--
3	ALANINE	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	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	LITHOSPERMIC-ACID	Shoot				--
3	THYMONIN	Leaf				--
3	THYMONIN	Plant				--

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)
2	PHYTOSTEROLS	Plant	1520.0	1760.0	1.0113053738948798	--
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	OCIMENE	Essential Oil				--
2	CYSTINE	Plant	1370.0	1980.0	-0.14920906466229109	--
2	LEUCINE	Plant	4300.0	4644.0	-0.9358077276861205	USDA's Ag Handbook 8 and sequelae)
2	8-METHOXY-CIRSILINEOL	Leaf		7.4		--
2	6-HYDROXY-LUTEOLIN	Leaf				--
2	COBALT	Leaf	2.0	11.3	-0.23172123703899697	--
1	SODIUM	Plant	430.0	1341.0	-0.22984526918694634	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	LABIATIC-ACID	Leaf				--
1	SODIUM	Leaf	250.0	1490.0	-0.3826506505861957	--
1	AMYL-ALCOHOL	Essential Oil		13900.0		--
0	GAMMA-TERPINEOL	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	CAR-4-ENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	SALICYLIC-ACID-2-BETA-D-GLUCOSIDE	Leaf				--
0	THYMOL-METHYL-ETHER	Plant	1.0	10000.0	2.233549853082993	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PHENOLS	Plant	800.0	27200.0	1.6309863122565058	--
0	2,6,6-TRIMETHYL-BICYCLO(3,1,1)-HEPTA-2-ENE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LINOLENIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FIBER(DIETARY)	Leaf		363000.0	-0.13830099389752015	--
0	CIRSIMARITRIN	Leaf		20.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	CAR-3-ENE	Plant	127.0	1080.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	EO	Plant	4000.0	34000.0	1.843811121608257	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	BETA-CARYOPHYLLENE	Plant	15.0	605.0	-0.05576734192343301	--
0	MONOTERPENES	Plant		17340.0		--
0	FIBER(CRUDE)	Leaf		202000.0	1.9467346249431954	--
0	P-CYMEN-8-OL	Essential Oil				--
0	4-HYDROXYBENZOYL-GLUCOSE	Leaf				--
0	CAR-4-ENE	Essential Oil				--
0	EO	Leaf	1344.0	26000.0	1.272335920147473	--
0	FIXED-OIL	Seed				--
0	4,4'-DIHYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL-3,6-DIONE	Leaf				--
0	BETA-CADINENE	Essential Oil				--
0	CAR-3-ENE	Essential Oil		31800.0	1.4059505964468082	--
0	4-O-BETA-D-GLUCOSIDE-PROTOCATECHUIC-ACID	Leaf				--
0	CINEOLE	Plant	10.0	4590.0	0.640375407109873	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	4'5-DIHYDROXY-7-METHOXYFLAVONE	Leaf		43.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	ASH	Plant	113681.0	130809.0	0.17698194315659818	USDA's Ag Handbook 8 and sequelae)
0	THIAMINE	Leaf	1.0	5.5	0.07312289774690897	--
0	LINALOL	Plant	20.0	17420.0	3.5059577384095792	--
0	BORNEOL-ACETATE	Essential Oil				--
0	SYRINGOYL-GLUCOSE	Leaf				--
0	ALPHA-HYDROXY-LINOLENIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ASH	Leaf	21504.0	128000.0	0.16118195052151324	--
0	TRANS-4-THUJANOL	Plant				--
0	RESIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	4'5-DIHYDROXY-6,7,8-TRIMETHOXYFLAVONE	Leaf		5.5		--
0	P-HYDROXYBENZOIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL-3,3',4,4'-TETRAONE	Leaf		3.0		--
0	LUTEOLIN-7-O-BETA-D-D1-GLUCOSIDE	Plant				--
0	SYRINGIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
0	1,8-CINEOL	Essential Oil		32900.0	-0.7499692191261143	--
0	PROTocatechuic-ACID-4-BETA-D-GLUCOSIDE	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	LUTEOLIN-7-O-BETA-D-GLUCOSIDE	Plant				Stitt, Paul. Why George should eat broccoli.

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0	CUMINYL-ALCOHOL	Essential Oil				--
0	ALPHA-THUJENE	Essential Oil		9200.0	-0.3412119955593358	--
0	4-BETA-D-GLUCOSIDE-HYDROXYBENZOIC-ACID	Leaf				--
0	N-TRIACONTANE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEX-5-EN-1-OL	Essential Oil				--
0	FAT	Seed	370000.0	389000.0	0.6511107729929847	--
0	PROTEIN	Plant		99000.0	-0.6102395118306475	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	4'-HYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL-3,4-DIONE	Leaf		9.0		--
0	LUTEOLIN-7-DIGLUCOSIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PROTEIN	Leaf	16632.0	99000.0	-1.1257384013756186	--
0	WATER	Plant	74111.0	81690.0	-2.95067665051006	USDA's Ag Handbook 8 and sequelae)
0	8-DEMETHYL-THYMONIN	Plant				--
0	THYMUSAPONIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FAT	Plant	69480.0	80000.0	0.4123680566892496	--
0	THUJAN-4-OL	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	3,4,4'-TRIHYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL	Leaf		1.0		--
0	P-CYMEN-8-OL	Plant				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
0	L-BORNEOL	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	GAMMA-TERPINEOL	Essential Oil				--
0	MYRCENOL-8-ACETATE	Plant	15.0	2600.0		--
0	WATER	Leaf		832000.0	0.1215431745492862	--
0	CARBOHYDRATES	Plant	639400.0	690552.0	0.11689634111281348	USDA's Ag Handbook 8 and sequelae)
0	6-HYDROXY-LUTEIN	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	THYMUNIC-ACID	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	3,3',4,4'-TETRAONE-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL	Leaf		3.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	KILOCALORIES	Leaf		2990.0	-0.04526603713996093	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	MYRCENOL-8	Plant	15.0	3900.0		--
0	VANILLIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
0	CARBOHYDRATES	Leaf	116424.0	693000.0	0.6453573657002941	--
0	5-HYDROXY-4',7-DIMETHOXYFLAVONE	Leaf		1.0		--
0	BETA-CARYOPHYLLENE	Essential Oil		17800.0	-0.5639001479089814	--
0	EUDESMOL	Essential Oil				--
0	PLANTEOSE	Seed				--
0	3,3',4,4'-TETRAHYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL	Leaf		35.0		--
0	FAT	Leaf	13440.0	80000.0	0.4690345316255361	--