

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Thymus vulgaris*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CARBOHYDRATES	Plant	639400.0	690552.0	0.11689634111281348	USDA's Ag Handbook 8 and sequelae)
0	FAT	Seed	370000.0	389000.0	0.6511107729929847	--
71	THYMOL	Essential Oil	231000.0	600500.0	1.251897456651706	--
15	FIBER	Plant	179294.0	693000.0	3.476313110187907	--
0	CARBOHYDRATES	Leaf	116424.0	693000.0	0.6453573657002941	--
0	ASH	Plant	113681.0	130809.0	0.17698194315659818	USDA's Ag Handbook 8 and sequelae)
35	TANNIN	Plant	80000.0	100000.0	0.23890746627510662	--
16	P-CYMENE	Essential Oil	78300.0	441300.0	3.0099759781102042	--
0	WATER	Plant	74111.0	81690.0	-2.95067665051006	USDA's Ag Handbook 8 and sequelae)
0	FAT	Plant	69480.0	80000.0	0.4123680566892496	--
53	LINALOOL	Essential Oil	28200.0	42800.0	-0.3912382959429395	--
0	ASH	Leaf	21504.0	128000.0	0.16118195052151324	--
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	--
0	PROTEIN	Leaf	16632.0	99000.0	-1.1257384013756186	--
89	URSOLIC-ACID	Plant	15000.0	18800.0	0.1020852373558865	--
0	FAT	Leaf	13440.0	80000.0	0.4690345316255361	--
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)
57	ROSMARINIC-ACID	Shoot	5000.0	13500.0	-0.2218024185144439	--
27	LINOLEIC-ACID	Plant	5000.0	5400.0	-0.498228841183293	USDA's Ag Handbook 8 and sequelae)

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)
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)
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.
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)
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	--
0	EO	Leaf	1344.0	26000.0	1.272335920147473	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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)
0	PHENOLS	Plant	800.0	27200.0	1.6309863122565058	--
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	--
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.
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.)
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.
23	ALPHA-TERPINEOL	Plant	36.0	6500.0	4.5501166473010075	--
22	MYRCENE	Plant	36.0	676.0	0.2665889258585754	--
11	GAMMA-TERPINENE	Plant	36.0	5460.0	1.6865623237463772	--

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).
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	--
0	LINALOL	Plant	20.0	17420.0	3.5059577384095792	--
12	BORNYL-ACETATE	Leaf	16.0	795.0	0.024849263231709388	--
13	BETA-PINENE	Plant	15.0	420.0	0.018001776257486977	--
0	MYRCENOL-8-ACETATE	Plant	15.0	2600.0		--
0	BETA-CARYOPHYLLENE	Plant	15.0	605.0	-0.05576734192343301	--
28	ALPHA-PINENE	Plant	15.0	1598.0	0.6494097697745248	--
0	MYRCENOL-8	Plant	15.0	3900.0		--
60	LIMONENE	Plant	15.0	5200.0	2.7100484195210193	--
71	THYMOL	Plant	15.0	24100.0	2.403959600133059	--
7	LINALYL-ACETATE	Plant	15.0	4680.0	1.672465199772225	--
9	CAMPHENE	Plant	15.0	375.0	0.03564329014217928	--
35	BORNEOL	Leaf	15.0	1462.0	1.3342119455552743	--
0	CINEOLE	Plant	10.0	4590.0	0.640375407109873	--
39	NIACIN	Leaf	9.0	54.0	-0.5291254900954042	--
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
53	BETA-CAROTENE	Leaf	4.0	25.0	-1.0290654853904624	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	RIBOFLAVIN	Plant	4.0	53.0	2.898116175774351	--
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	--
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.
14	MANGANESE	Leaf	1.0	6.4	-0.44924615028330334	--
0	THIAMINE	Leaf	1.0	5.5	0.07312289774690897	--
15	RIBOFLAVIN	Leaf	0.7	4.3	-0.15770533507217988	--
77	ZINC	Leaf	0.3	1.5	-0.517562565370557	--
24	CHROMIUM	Leaf	0.3	2.0	-0.47584894253972093	--
5	GERANYL-ACETATE	Plant	0.0	3380.0	3.505632505880159	--
35	GERANIOL	Plant	0.0	10660.0	1.3821598262581827	--
0	3,4,4'-TRIHYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL	Leaf		1.0		--
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.
3	BETA-TERPINEOL	Essential Oil		19800.0	-1.0	--
0	5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL-3,3',4,4'-TETRAONE	Leaf		3.0		--
56	NARINGENIN	Plant				--
0	LUTEOLIN-7-O-BETA-D-D1-GLUCOSIDE	Plant				--
1	AMYL-ALCOHOL	Essential Oil		13900.0		--
0	SYRINGIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
0	1,8-CINEOL	Essential Oil		32900.0	-0.7499692191261143	--
0	6-HYDROXY-LUTEIN	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
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.
13	p-hydroxy-benzoic-acid	Plant				Stitt, Paul. Why George should eat broccoli.
0	alpha-thujene	Essential Oil		9200.0	-0.3412119955593358	--
0	4-beta-D-glucoside-hydroxybenzoic-acid	Leaf				--
76	eugenol	Plant				Stitt, Paul. Why George should eat broccoli.
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				--
78	luteolin	Leaf				--
60	limonene	Essential Oil		5300.0	-0.7065592764801447	--
4	isochlorogenic-acid	Shoot				--
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.
0	5-hydroxy-4',7'-dimethoxyflavone	Leaf		1.0		--
0	protein	Plant		99000.0	-0.6102395118306475	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3,3',4,4'-TETRAHYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL	Leaf		35.0		--
1	LABIATIC-ACID	Leaf				--
23	ALPHA-TERPINEOL	Essential Oil				--
9	CIRSIMARITIN	Leaf		20.0		--
0	EUDESMOL	Essential Oil				--
12	GLYCINE	Plant				Stitt, Paul. Why George should eat broccoli.
2	6-HYDROXY-LUTEOLIN	Leaf				--
53	CITRAL	Plant				Stitt, Paul. Why George should eat broccoli.
31	CARYOPHYLENE	Essential Oil		13600.0	-0.5131215564619739	--
4	COSMOSIIN	Plant				--
0	THYMUSAPONIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	CAR-4-ENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	5,4'-DIHYDROXY-6,7,8,3'-TETRAMETHOXYFLAVONE	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
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.
78	LUTEOLIN	Plant				--
9	CAMPHENE	Essential Oil		4100.0	-0.5707424955262961	--
0	2,6,6-TRIMETHYL-BICYCLO(3,1,1)-HEPTA-2-ENE	Essential Oil				--
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.
13	ALPHA-TERPINENE	Essential Oil				--
0	GAMMA-TERPINEOL	Essential Oil				--
10	ERIODICTYOL	Plant				--
3	BETA-PHELLANDRENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
7	GERMACRONE	Essential Oil				--
0	WATER	Leaf		832000.0	0.1215431745492862	--
0	CIRSIMARITRIN	Leaf		20.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
13	ALPHA-TERPINENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
77	CHLOROGENIC-ACID	Shoot				--
0	THYMUNIC-ACID	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	LITHOSPERMIC-ACID	Shoot				--
35	BORNEOL	Essential Oil				--
25	P-COUMARIC-ACID	Leaf		420.0	-0.2397011509117522	--
0	KILOCALORIES	Leaf		2990.0	-0.04526603713996093	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
57	ROSMARINIC-ACID	Inflorescence		26000.0	-0.44370755261684197	--
35	GERANIOL	Essential Oil				--
0	VANILLIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	CIRSILINEOL	Leaf				--
60	SELENIUM	Leaf		16.0	0.8468059442367126	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	BETA-CARYOPHYLLENE	Essential Oil		17800.0	-0.5639001479089814	--
3	THYMONIN	Leaf				--
0	4-HYDROXYBENZOYL-GLUCOSE	Leaf				--
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.
0	PLANTEOSE	Seed				--
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	THYMONIN	Plant				--
18	OLEIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
75	KAEMPFEROL	Plant				Stitt, Paul. Why George should eat broccoli.
13	BETA-PINENE	Essential Oil		3400.0	-0.6548910076758792	--
30	MENTHONE	Plant				Stitt, Paul. Why George should eat broccoli.
13	DIOSMETIN	Plant				Stitt, Paul. Why George should eat broccoli.
0	GAMMA-TERPINEOL	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	GENKWANIN	Leaf		43.0		--
24	VANILLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
18	CINNAMIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SALICYLIC-ACID-2-BETA-D-GLUCOSIDE	Leaf				--
0	4,4'-DIHYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL-3,6-DIONE	Leaf				--
0	LINOLENIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
71	THYMOL	Shoot				--
0	FIBER(DIETARY)	Leaf		363000.0	-0.13830099389752015	--
4	ISOTHYMONIN	Plant				--
3	BETA-PHELLANDRENE	Essential Oil				--
9	DELTA-CADINENE	Essential Oil				--
0	BETA-CADINENE	Essential Oil				--
62	GALLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
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	MONOTERPENES	Plant		17340.0		--
27	LINOLEIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
37	CARVACROL	Shoot				--
0	FIBER(CRUDE)	Leaf		202000.0	1.9467346249431954	--
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.
28	ALPHA-PINENE	Essential Oil		8000.0	-0.489673998831605	--
19	CARVONE	Plant				Stitt, Paul. Why George should eat broccoli.

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.
0	P-CYMEN-8-OL	Essential Oil				--
7	CHRYSOERIOL	Plant				Stitt, Paul. Why George should eat broccoli.
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	4'5-DIHYDROXY-6,7,8-TRIMETHOXYFLAVONE	Leaf		5.5		--
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.)
23	TERPINEN-4-OL	Essential Oil				--
0	CAR-4-ENE	Essential Oil				--
2	OCIMENE	Essential Oil				--
16	ISOEUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.
11	ALPHA-PHELLANDRENE	Essential Oil		12500.0	-0.35109578631088695	--
112	ASCORBIC-ACID	Leaf		0.0	-0.4439200969762572	--
0	FIXED-OIL	Seed				--
3	ALANINE	Plant				Stitt, Paul. Why George should eat broccoli.
57	ROSMARINIC-ACID	Plant		26000.0	-0.1440410263169351	Fitoterapia No.62: 166.
102	CAFFEIC-ACID	Leaf		16900.0	1.6286156543306036	--
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.
5	SCLAREOL	Essential Oil				--
0	CAR-3-ENE	Essential Oil		31800.0	1.4059505964468082	--
61	FERULIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
39	NIACIN	Plant		54.0	-0.3183355989371754	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	ISOCHLOROGENIC-ACID	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	4-O-BETA-D-GLUCOSIDE-PROTOCATECHUIC-ACID	Leaf				--
0	CUMINYL-ALCOHOL	Essential Oil				--
101	APIGENIN	Plant				--
3	CYNAROSIDE	Plant				--
77	CHLOROGENIC-ACID	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	8-METHOXY-CIRSILINEOL	Leaf		7.4		--
0	4'-HYDROXY-5,5'-DI-ISOPROPYL-2,2'-DIMETHYL-BIPHENYL-3,4-DIONE	Leaf		9.0		--
0	BORNEOL-ACETATE	Essential Oil				--
11	NEROLIDOL	Plant		80.0	0.6116455838839169	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
7	ISOBORNEOL	Essential Oil				--
22	MYRCENE	Essential Oil		17500.0	-0.21460744003259294	--
4	COSMOIIN	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
36	ANETHOLE	Essential Oil				--
0	SYRINGOYL-GLUCOSE	Leaf				--
57	COUMARIN	Essential Oil		3000.0		--
0	TRANS-4-THUJANOL	Plant				--
0	8-DEMETHYL-THYMONIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	RESIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.