

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Thymus vulgaris*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	THYMONIN	Plant				--
0	4-HYDROXYBENZOYL-GLUCOSE	Leaf				--
3	THYMONIN	Leaf				--
0	PLANTEOSE	Seed				--
30	MENTHONE	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.
13	DIOSMETIN	Plant				Stitt, Paul. Why George should eat broccoli.
75	KAEMPFEROL	Plant				Stitt, Paul. Why George should eat broccoli.
0	SALICYLIC-ACID-2-BETA-D-GLUCOSIDE	Leaf				--
18	CINNAMIC-ACID	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.
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.
24	VANILLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
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	4,4'-DIHYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL-3,6-DIONE	Leaf				--
9	DELTA-CADINENE	Essential Oil				--
4	ISOTHYMONIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-CADINENE	Essential Oil				--
3	BETA-PHELLANDRENE	Essential Oil				--
62	GALLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
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				--
19	CARVONE	Plant				Stitt, Paul. Why George should eat broccoli.
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	P-CYMEN-8-OL	Essential Oil				--
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.
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.
3	ALANINE	Plant				Stitt, Paul. Why George should eat broccoli.
0	FIXED-OIL	Seed				--
61	FERULIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
5	SCLAREOL	Essential Oil				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CUMINYL-ALCOHOL	Essential Oil				--
4	ISOCHLOROGENIC-ACID	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
101	APIGENIN	Plant				--
0	4-O-BETA-D-GLUCOSIDE-PROTOCATECHUIC-ACID	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.
3	CYNAROSIDE	Plant				--
0	BORNEOL-ACETATE	Essential Oil				--
0	SYRINGOYL-GLUCOSE	Leaf				--
4	COSMOIIN	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
7	ISOBORNEOL	Essential Oil				--
36	ANETHOLE	Essential Oil				--
0	RESIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	8-DEMETHYL-THYMONIN	Plant				--
0	TRANS-4-THUJANOL	Plant				--
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	SYRINGIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
56	NARINGENIN	Plant				--
0	LUTEOLIN-7-O-BETA-D-D1-GLUCOSIDE	Plant				--

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	6-Hydroxy-lutein	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	4-beta-D-glucoside-hydroxybenzoic-acid	Leaf				--
13	p-Hydroxy-benzoic-acid	Plant				Stitt, Paul. Why George should eat broccoli.
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				--
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.
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.
23	Alpha-terpineol	Essential Oil				--
0	Eudesmol	Essential Oil				--
1	Labiatric-acid	Leaf				--
53	Citral	Plant				Stitt, Paul. Why George should eat broccoli.
12	Glycine	Plant				Stitt, Paul. Why George should eat broccoli.
2	6-Hydroxy-luteolin	Leaf				--
78	Luteolin	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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)
4	COSMOSIIN	Plant				--
0	THYMUSAPONIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	BETA-PHELLANDRENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
13	ALPHA-TERPINENE	Essential Oil				--
0	2,6,6-TRIMETHYL-BICYCLO(3,1,1)-HEPTA-2-ENE	Essential Oil				--
0	GAMMA-TERPINEOL	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.
10	ERIODICTYOL	Plant				--
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	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
7	GERMACRONE	Essential Oil				--
3	LITHOSPERMIC-ACID	Shoot				--
35	BORNEOL	Essential Oil				--
77	CHLOROGENIC-ACID	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	THYMUNIC-ACID	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
10	CIRSILINEOL	Leaf				--
35	GERANIOL	Essential Oil				--
0	VANILLIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
112	ASCORBIC-ACID	Leaf		0.0	-0.4439200969762572	--
0	3,4,4'-TRIHYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL	Leaf		1.0		--
0	5-HYDROXY-4',7'-DIMETHOXYFLAVONE	Leaf		1.0		--
77	ZINC	Leaf	0.3	1.5	-0.517562565370557	--
24	CHROMIUM	Leaf	0.3	2.0	-0.47584894253972093	--
0	5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL-3,3',4,4'-TETRAONE	Leaf		3.0		--
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.
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.
15	RIBOFLAVIN	Leaf	0.7	4.3	-0.15770533507217988	--
0	4'5-DIHYDROXY-6,7,8-TRIMETHOXYFLAVONE	Leaf		5.5		--
0	THIAMINE	Leaf	1.0	5.5	0.07312289774690897	--
31	THIAMIN	Plant	5.0	6.0	-0.13599687437442232	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
14	MANGANESE	Leaf	1.0	6.4	-0.44924615028330334	--
2	8-METHOXY-CIRSILINEOL	Leaf		7.4		--
0	4'-HYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL-3,4-DIONE	Leaf		9.0		--

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)
2	COBALT	Leaf	2.0	11.3	-0.23172123703899697	--
60	SELENIUM	Leaf		16.0	0.8468059442367126	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	TIN	Leaf	3.0	17.0	0.16583896593447706	--
9	CIRSIMARITIN	Leaf		20.0		--
0	CIRSIMARITRIN	Leaf		20.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
4	SILICON	Leaf	3.4	20.2	-0.35311039000946726	--
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	--
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.)
0	3,3',4,4'-TETRAHYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL	Leaf		35.0		--
3	GENKWANIN	Leaf		43.0		--
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.
41	CAMPHOR	Plant	5.0	45.0	-0.6310839661679942	J. Ethnopharmacology, 39: 167.
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).
15	RIBOFLAVIN	Plant	4.0	53.0	2.898116175774351	--
39	NIACIN	Leaf	9.0	54.0	-0.5291254900954042	--

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
77	ZINC	Plant	55.0	74.0	0.2155665551284883	USDA's Ag Handbook 8 and sequelae)
11	NEROLIDOL	Plant		80.0	0.6116455838839169	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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.)
6	IRON	Leaf	25.0	147.0	-0.5479717246880129	--
9	CAMPHENE	Plant	15.0	375.0	0.03564329014217928	--
13	BETA-PINENE	Plant	15.0	420.0	0.018001776257486977	--
25	P-COUMARIC-ACID	Leaf		420.0	-0.2397011509117522	--
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.
8	DELTA-3-CARENE	Plant		510.0	1.4050753285540967	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BETA-CARYOPHYLLENE	Plant	15.0	605.0	-0.05576734192343301	--
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.
22	MYRCENE	Plant	36.0	676.0	0.2665889258585754	--
12	BORNYL-ACETATE	Leaf	16.0	795.0	0.024849263231709388	--
5	ALUMINUM	Leaf	155.0	920.0	0.20677516470176702	--
4	PHOSPHORUS	Leaf	160.0	950.0	-0.7398952649396242	--
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.
3	CAPRIC-ACID	Plant	1200.0	1296.0	1.339345677770498	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SODIUM	Plant	430.0	1341.0	-0.22984526918694634	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
35	BORNEOL	Leaf	15.0	1462.0	1.3342119455552743	--
1	SODIUM	Leaf	250.0	1490.0	-0.3826506505861957	--
6	IRON	Plant	1075.0	1508.0	1.0375715013534672	USDA's Ag Handbook 8 and sequelae)
28	ALPHA-PINENE	Plant	15.0	1598.0	0.6494097697745248	--
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)
2	PHYTOSTEROLS	Plant	1520.0	1760.0	1.0113053738948798	--
7	SALICYLATES	Leaf	180.0	1830.0	3.405792573475138	J. Amer. Diet. Ass. 85(8):950.
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	--
29	TRYPTOPHAN	Plant	1860.0	2009.0	-0.9423278904561724	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Plant	2070.0	2236.0	-0.977693978133575	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	PHOSPHORUS	Plant	1703.0	2502.0	-0.5221788524630546	USDA's Ag Handbook 8 and sequelae)
5	CAPRYLIC-ACID	Plant	2400.0	2592.0	-1.0	USDA's Ag Handbook 8 and sequelae)
0	MYRCENOL-8-ACETATE	Plant	15.0	2600.0		--
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)
4	THREONINE	Plant	2520.0	2722.0	-1.0265192446716156	USDA's Ag Handbook 8 and sequelae)
0	KILOCALORIES	Leaf		2990.0	-0.04526603713996093	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
65	MAGNESIUM	Plant	1630.0	2992.0	-0.3334971399346445	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
57	COUMARIN	Essential Oil		3000.0		--
5	GERANYL-ACETATE	Plant	0.0	3380.0	3.505632505880159	--
13	BETA-PINENE	Essential Oil		3400.0	-0.6548910076758792	--
0	MYRCENOL-8	Plant	15.0	3900.0		--
9	CAMPHERE	Essential Oil		4100.0	-0.5707424955262961	--
65	MAGNESIUM	Leaf	733.0	4360.0	0.09045438563126122	--
0	CINEOLE	Plant	10.0	4590.0	0.640375407109873	--
2	LEUCINE	Plant	4300.0	4644.0	-0.9358077276861205	USDA's Ag Handbook 8 and sequelae)
7	LINALYL-ACETATE	Plant	15.0	4680.0	1.672465199772225	--
3	ISOLEUCINE	Plant	4680.0	5054.0	-0.6194658766918496	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Plant	4700.0	5076.0	0.1061240929953362	USDA's Ag Handbook 8 and sequelae)
60	LIMONENE	Plant	15.0	5200.0	2.7100484195210193	--
60	LIMONENE	Essential Oil		5300.0	-0.7065592764801447	--
27	LINOLEIC-ACID	Plant	5000.0	5400.0	-0.498228841183293	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Plant	5020.0	5422.0	-0.5699263899456222	USDA's Ag Handbook 8 and sequelae)
11	GAMMA-TERPINENE	Plant	36.0	5460.0	1.6865623237463772	--
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.
23	ALPHA-TERPINEOL	Plant	36.0	6500.0	4.5501166473010075	--
15	ALPHA-LINOLENIC-ACID	Plant	6900.0	7452.0	0.18376314105806602	USDA's Ag Handbook 8 and sequelae)
28	ALPHA-PINENE	Essential Oil		8000.0	-0.489673998831605	--
8	4-TERPINEOL	Plant	73.0	8320.0	1.0	--
0	ALPHA-THUJENE	Essential Oil		9200.0	-0.3412119955593358	--
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	Reference Citation
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.
35	GERANIOL	Plant	0.0	10660.0	1.3821598262581827	--
11	ALPHA-PHELLANDRENE	Essential Oil		12500.0	-0.35109578631088695	--
57	ROSMARINIC-ACID	Shoot	5000.0	13500.0	-0.2218024185144439	--
31	CARYOPHYLLENE	Essential Oil		13600.0	-0.5131215564619739	--
1	AMYL-ALCOHOL	Essential Oil		13900.0		--
28	CALCIUM	Leaf	2806.0	16700.0	-0.11869746309625637	--
102	CAFFEIC-ACID	Leaf		16900.0	1.6286156543306036	--
0	MONOTERPENES	Plant		17340.0		--
0	LINALOL	Plant	20.0	17420.0	3.5059577384095792	--
53	LINALOOL	Plant	20.0	17420.0	1.6923500644491847	--
22	MYRCENE	Essential Oil		17500.0	-0.21460744003259294	--
0	BETA-CARYOPHYLLENE	Essential Oil		17800.0	-0.5639001479089814	--
13	PALMITIC-ACID	Plant	17200.0	18576.0	0.13135300956566015	USDA's Ag Handbook 8 and sequelae)
37	CARVACROL	Plant	8.0	18720.0	1.7231339758690776	--
89	URSOLIC-ACID	Plant	15000.0	18800.0	0.1020852373558865	--
3	BETA-TERPINEOL	Essential Oil		19800.0	-1.0	--
16	P-CYMENE	Plant	146.0	20800.0	4.994249412924975	--
28	CALCIUM	Plant	16935.0	22534.0	0.9567743716867843	USDA's Ag Handbook 8 and sequelae)
71	THYMOL	Plant	15.0	24100.0	2.403959600133059	--
57	ROSMARINIC-ACID	Plant		26000.0	-0.1440410263169351	Fitoterapia No.62: 166.
0	EO	Leaf	1344.0	26000.0	1.272335920147473	--
57	ROSMARINIC-ACID	Inflorescence		26000.0	-0.44370755261684197	--
0	PHENOLS	Plant	800.0	27200.0	1.6309863122565058	--
0	CAR-3-ENE	Essential Oil		31800.0	1.4059505964468082	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	1,8-CINEOL	Essential Oil		32900.0	-0.7499692191261143	--
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.
53	LINALOOL	Essential Oil	28200.0	42800.0	-0.3912382959429395	--
11	GAMMA-TERPINENE	Essential Oil	17800.0	49500.0	-0.14620497552360953	--
0	FAT	Leaf	13440.0	80000.0	0.4690345316255361	--
0	FAT	Plant	69480.0	80000.0	0.4123680566892496	--
37	CARVACROL	Essential Oil	16700.0	80200.0	-0.7047683392180678	--
0	WATER	Plant	74111.0	81690.0	-2.95067665051006	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Leaf	16632.0	99000.0	-1.1257384013756186	--
0	PROTEIN	Plant		99000.0	-0.6102395118306475	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
35	TANNIN	Plant	80000.0	100000.0	0.23890746627510662	--
35	TANNIN	Leaf	16800.0	100000.0	-0.12855505340498594	--
0	ASH	Leaf	21504.0	128000.0	0.16118195052151324	--
0	ASH	Plant	113681.0	130809.0	0.17698194315659818	USDA's Ag Handbook 8 and sequelae)
0	FIBER(CRUDE)	Leaf		202000.0	1.9467346249431954	--
0	FIBER(DIETARY)	Leaf		363000.0	-0.13830099389752015	--
0	FAT	Seed	370000.0	389000.0	0.6511107729929847	--
16	P-CYMENE	Essential Oil	78300.0	441300.0	3.0099759781102042	--
71	THYMOL	Essential Oil	231000.0	600500.0	1.251897456651706	--
0	CARBOHYDRATES	Plant	639400.0	690552.0	0.11689634111281348	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Plant	179294.0	693000.0	3.476313110187907	--
0	CARBOHYDRATES	Leaf	116424.0	693000.0	0.6453573657002941	--
0	WATER	Leaf		832000.0	0.1215431745492862	--