

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	WATER	Leaf		832000.0	0.1215431745492862	--
15	FIBER	Plant	179294.0	693000.0	3.476313110187907	--
0	CARBOHYDRATES	Leaf	116424.0	693000.0	0.6453573657002941	--
0	CARBOHYDRATES	Plant	639400.0	690552.0	0.11689634111281348	USDA's Ag Handbook 8 and sequelae)
71	THYMOL	Essential Oil	231000.0	600500.0	1.251897456651706	--
16	P-CYMENE	Essential Oil	78300.0	441300.0	3.0099759781102042	--
0	FAT	Seed	370000.0	389000.0	0.6511107729929847	--
0	FIBER(DIETARY)	Leaf		363000.0	-0.13830099389752015	--
0	FIBER(CRUDE)	Leaf		202000.0	1.9467346249431954	--
0	ASH	Plant	113681.0	130809.0	0.17698194315659818	USDA's Ag Handbook 8 and sequelae)
0	ASH	Leaf	21504.0	128000.0	0.16118195052151324	--
35	TANNIN	Plant	80000.0	100000.0	0.23890746627510662	--
35	TANNIN	Leaf	16800.0	100000.0	-0.12855505340498594	--
0	PROTEIN	Plant		99000.0	-0.6102395118306475	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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)
37	CARVACROL	Essential Oil	16700.0	80200.0	-0.7047683392180678	--
0	FAT	Plant	69480.0	80000.0	0.4123680566892496	--
0	FAT	Leaf	13440.0	80000.0	0.4690345316255361	--
11	GAMMA-TERPINENE	Essential Oil	17800.0	49500.0	-0.14620497552360953	--
53	LINALOOL	Essential Oil	28200.0	42800.0	-0.3912382959429395	--
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	1,8-CINEOL	Essential Oil		32900.0	-0.7499692191261143	--
0	CAR-3-ENE	Essential Oil		31800.0	1.4059505964468082	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PHENOLS	Plant	800.0	27200.0	1.6309863122565058	--
0	EO	Leaf	1344.0	26000.0	1.272335920147473	--
57	ROSMARINIC-ACID	Plant		26000.0	-0.1440410263169351	Fitoterapia No.62: 166.
57	ROSMARINIC-ACID	Inflorescence		26000.0	-0.44370755261684197	--
71	THYMOL	Plant	15.0	24100.0	2.403959600133059	--
28	CALCIUM	Plant	16935.0	22534.0	0.9567743716867843	USDA's Ag Handbook 8 and sequelae)
16	P-CYMENE	Plant	146.0	20800.0	4.994249412924975	--
3	BETA-TERPINEOL	Essential Oil		19800.0	-1.0	--
89	URSOLIC-ACID	Plant	15000.0	18800.0	0.1020852373558865	--
37	CARVACROL	Plant	8.0	18720.0	1.7231339758690776	--
13	PALMITIC-ACID	Plant	17200.0	18576.0	0.13135300956566015	USDA's Ag Handbook 8 and sequelae)
0	BETA-CARYOPHYLLENE	Essential Oil		17800.0	-0.5639001479089814	--
22	MYRCENE	Essential Oil		17500.0	-0.21460744003259294	--
0	LINALOL	Plant	20.0	17420.0	3.5059577384095792	--
53	LINALOOL	Plant	20.0	17420.0	1.6923500644491847	--
0	MONOTERPENES	Plant		17340.0		--
102	CAFFEIC-ACID	Leaf		16900.0	1.6286156543306036	--
28	CALCIUM	Leaf	2806.0	16700.0	-0.11869746309625637	--
1	AMYL-ALCOHOL	Essential Oil		13900.0		--
31	CARYOPHYLLENE	Essential Oil		13600.0	-0.5131215564619739	--
57	ROSMARINIC-ACID	Shoot	5000.0	13500.0	-0.2218024185144439	--
11	ALPHA-PHELLANDRENE	Essential Oil		12500.0	-0.35109578631088695	--
35	GERANIOL	Plant	0.0	10660.0	1.3821598262581827	--
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	POTASSIUM	Leaf	1626.0	9680.0	-0.9124794391445947	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	POTASSIUM	Plant	7667.0	9302.0	-0.8714063817322808	USDA's Ag Handbook 8 and sequelae)
0	ALPHA-THUJENE	Essential Oil		9200.0	-0.3412119955593358	--
8	4-TERPINEOL	Plant	73.0	8320.0	1.0	--
28	ALPHA-PINENE	Essential Oil		8000.0	-0.489673998831605	--
15	ALPHA-LINOLENIC-ACID	Plant	6900.0	7452.0	0.18376314105806602	USDA's Ag Handbook 8 and sequelae)
23	ALPHA-TERPINEOL	Plant	36.0	6500.0	4.5501166473010075	--
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.
11	GAMMA-TERPINENE	Plant	36.0	5460.0	1.6865623237463772	--
3	VALINE	Plant	5020.0	5422.0	-0.5699263899456222	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Plant	5000.0	5400.0	-0.498228841183293	USDA's Ag Handbook 8 and sequelae)
60	LIMONENE	Essential Oil		5300.0	-0.7065592764801447	--
60	LIMONENE	Plant	15.0	5200.0	2.7100484195210193	--
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)
7	LINALYL-ACETATE	Plant	15.0	4680.0	1.672465199772225	--
2	LEUCINE	Plant	4300.0	4644.0	-0.9358077276861205	USDA's Ag Handbook 8 and sequelae)
0	CINEOLE	Plant	10.0	4590.0	0.640375407109873	--
65	MAGNESIUM	Leaf	733.0	4360.0	0.09045438563126122	--
9	CAMPHENE	Essential Oil		4100.0	-0.5707424955262961	--
0	MYRCENOL-8	Plant	15.0	3900.0		--
13	BETA-PINENE	Essential Oil		3400.0	-0.6548910076758792	--
5	GERANYL-ACETATE	Plant	0.0	3380.0	3.505632505880159	--
57	COUMARIN	Essential Oil		3000.0		--
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
0	KILOCALORIES	Leaf		2990.0	-0.04526603713996093	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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)
0	MYRCENOL-8-ACETATE	Plant	15.0	2600.0		--
5	CAPRYLIC-ACID	Plant	2400.0	2592.0	-1.0	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Plant	1703.0	2502.0	-0.5221788524630546	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)
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	--
7	SALICYLATES	Leaf	180.0	1830.0	3.405792573475138	J. Amer. Diet. Ass. 85(8):950.
2	PHYTOSTEROLS	Plant	1520.0	1760.0	1.0113053738948798	--
6	MYRISTIC-ACID	Plant	1500.0	1620.0	0.7382551297828841	USDA's Ag Handbook 8 and sequelae)
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.)
28	ALPHA-PINENE	Plant	15.0	1598.0	0.6494097697745248	--
6	IRON	Plant	1075.0	1508.0	1.0375715013534672	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Leaf	250.0	1490.0	-0.3826506505861957	--
35	BORNEOL	Leaf	15.0	1462.0	1.3342119455552743	--
1	SODIUM	Plant	430.0	1341.0	-0.22984526918694634	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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
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.
4	PHOSPHORUS	Leaf	160.0	950.0	-0.7398952649396242	--
5	ALUMINUM	Leaf	155.0	920.0	0.20677516470176702	--
12	BORNYL-ACETATE	Leaf	16.0	795.0	0.024849263231709388	--
22	MYRCENE	Plant	36.0	676.0	0.2665889258585754	--
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.
0	BETA-CARYOPHYLLENE	Plant	15.0	605.0	-0.05576734192343301	--
8	DELTA-3-CARENE	Plant		510.0	1.4050753285540967	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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.
13	BETA-PINENE	Plant	15.0	420.0	0.018001776257486977	--
25	P-COUMARIC-ACID	Leaf		420.0	-0.2397011509117522	--
9	CAMPHENE	Plant	15.0	375.0	0.03564329014217928	--
6	IRON	Leaf	25.0	147.0	-0.5479717246880129	--
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	NEROLIDOL	Plant		80.0	0.6116455838839169	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
77	ZINC	Plant	55.0	74.0	0.2155665551284883	USDA's Ag Handbook 8 and sequelae)
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	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	RIBOFLAVIN	Plant	4.0	53.0	2.898116175774351	--
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).
41	CAMPHOR	Plant	5.0	45.0	-0.6310839661679942	J. Ethnopharmacology, 39: 167.
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.
0	3,3',4,4'-TETRAHYDROXY-5,5'-DI-ISO-PROPYL-2,2'-DIMETHYL-BIPHENYL	Leaf		35.0		--
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.)
53	BETA-CAROTENE	Leaf	4.0	25.0	-1.0290654853904624	--
53	BETA-CAROTENE	Plant	24.0	25.0	-0.5917819689568318	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	SILICON	Leaf	3.4	20.2	-0.35311039000946726	--
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	TIN	Leaf	3.0	17.0	0.16583896593447706	--
60	SELENIUM	Leaf		16.0	0.8468059442367126	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	COBALT	Leaf	2.0	11.3	-0.23172123703899697	--
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	8-METHOXY-CIRSILINEOL	Leaf		7.4		--
14	MANGANESE	Leaf	1.0	6.4	-0.44924615028330334	--
31	THIAMIN	Plant	5.0	6.0	-0.13599687437442232	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	4'5-DIHYDROXY-6,7,8-TRIMETHOXYFLAVONE	Leaf		5.5		--
0	THIAMINE	Leaf	1.0	5.5	0.07312289774690897	--
15	RIBOFLAVIN	Leaf	0.7	4.3	-0.15770533507217988	--
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.
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.
24	CHROMIUM	Leaf	0.3	2.0	-0.47584894253972093	--
77	ZINC	Leaf	0.3	1.5	-0.517562565370557	--
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		--
112	ASCORBIC-ACID	Leaf		0.0	-0.4439200969762572	--
24	VANILLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
18	CINNAMIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
0	SALICYLIC-ACID-2-BETA-D-GLUCOSIDE	Leaf				--
0	GAMMA-TERPINEOL	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	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				--
3	BETA-PHELLANDRENE	Essential Oil				--
9	DELTA-CADINENE	Essential Oil				--
0	BETA-CADINENE	Essential Oil				--
4	ISOTHYMONIN	Plant				--
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				--
62	GALLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
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				--
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				--

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

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	LUTEOLIN-7-O-BETA-D-D1-GLUCOSIDE	Plant				--
0	SYRINGIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
56	NARINGENIN	Plant				--
0	6-HYDROXY-LUTEIN	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
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	4-BETA-D-GLUCOSIDE-HYDROXYBENZOIC-ACID	Leaf				--
76	EUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.
13	P-HYDROXY-BENZOIC-ACID	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.
1	LABIATIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Essential Oil				--
0	EUDESMOL	Essential Oil				--
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				--
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				--
4	COSMOIIN	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.
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.
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	P-CYMEN-8-OL	Plant				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.
7	GERMACRONE	Essential Oil				--
3	LITHOSPERMIC-ACID	Shoot				--
35	BORNEOL	Essential Oil				--
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.
0	VANILLIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
10	CIRSILINEOL	Leaf				--
35	GERANIOL	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.
0	PLANTEOSE	Seed				--
3	THYMONIN	Plant				--
3	THYMONIN	Leaf				--
0	4-HYDROXYBENZOYL-GLUCOSE	Leaf				--
75	KAEMPFEROL	Plant				Stitt, Paul. Why George should eat broccoli.
30	MENTHONE	Plant				Stitt, Paul. Why George should eat broccoli.
13	DIOSMETIN	Plant				Stitt, Paul. Why George should eat broccoli.

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