

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Salvia officinalis*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
112	ASCORBIC-ACID	Leaf	55.0	350.0	-0.4114445568899699	--
102	CAFFEIC-ACID	Shoot				--
102	CAFFEIC-ACID	Inflorescence				--
101	APIGENIN	Plant				Stitt, Paul. Why George should eat broccoli.
101	APIGENIN	Shoot				--
89	URSOLIC-ACID	Root				--
89	URSOLIC-ACID	Stem		200.0	-0.8584003823146588	--
89	URSOLIC-ACID	Leaf	1255.0	1300.0	-0.38650833417091646	--
78	LUTEOLIN	Shoot				--
78	LUTEOLIN	Leaf				--
77	CHLOROGENIC-ACID	Inflorescence				--
77	ZINC	Leaf	1.0	5.9	-0.4905596892021207	--
77	CHLOROGENIC-ACID	Shoot				--
71	THYMOL	Essential Oil				--
71	THYMOL	Leaf				--
67	1,8-CINEOLE	Plant	390.0	6288.0	1.2033227605211898	--
65	MAGNESIUM	Leaf	444.0	2830.0	-0.5003307709599559	--
64	OLEANOLIC-ACID	Stem		400.0	1.0	--
64	OLEANOLIC-ACID	Leaf	140.0	786.0	-0.36135857674665767	--
63	MENTHOL	Plant				--
63	MENTHOL	Leaf				--
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	39.0	2380.0	0.9769131249982739	--
60	LIMONENE	Et		14000.0	-1.0	--
60	LIMONENE	Essential Oil	6600.0	85000.0	-0.2478161403169539	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	SELENIUM	Leaf				--
60	LIMONENE	Leaf Essent. Oil	10000.0	36400.0	-0.517322999711508	--
57	ROSMARINIC-ACID	Shoot	2000.0	5800.0	-0.5832582116490932	--
57	ROSMARINIC-ACID	Plant	30000.0	50600.0	1.3515537858959146	--
57	ROSMARINIC-ACID	Leaf				--
57	ROSMARINIC-ACID	Inflorescence	30000.0	42000.0	0.25850024578765574	--
57	ROSMARINIC-ACID	Tissue Culture				--
53	LINALOOL	Et		11000.0		--
53	CITRAL	Plant				Stitt, Paul. Why George should eat broccoli.
53	LINALOOL	Leaf Essent. Oil	4000.0	46600.0	-0.40077393425160296	--
53	LINALOOL	Essential Oil	1700.0	5000.0	-0.560725569158283	--
53	LINALOOL	Plant	0.0	3500.0	-0.1908197582561713	--
53	BETA-CAROTENE	Leaf	6.0	39.0	-0.9680962342519674	--
51	ELLAGIC-ACID	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.
47	BETA-SITOSTEROL	Root				--
47	BETA-SITOSTEROL	Fruit Essent. Oil				--
47	BETA-SITOSTEROL	Stem		1214.0	1.0861956164972184	--
47	BETA-SITOSTEROL	Leaf	5.0	2449.0	0.24430946587626218	--
47	BETA-SITOSTEROL	Sprout Seedling				--
43	CATECHIN	Plant				--
41	CAMPHOR	Essential Oil	76000.0	305000.0	0.54343127227621	--
41	CAMPHOR	Leaf Essent. Oil	44000.0	458000.0	2.005169580755753	--
41	CAMPHOR	Pericarp Essent. Oil		229000.0		--
41	CAMPHOR	Leaf	0.0	9324.0	-0.03988163889064865	--
39	NIACIN	Leaf	10.0	62.0	-0.4318167758906651	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	BORNEOL	Shoot		7000.0	6.370019299829522	--
35	TANNIN	Plant	20000.0	80000.0	-0.053082229266390064	--
35	BORNEOL	Et		79000.0		--
35	BORNEOL	Essential Oil	19700.0	156000.0	0.627691236095563	--
35	BORNEOL	Leaf Essent. Oil	16000.0	250000.0	2.73359024149356	--
35	GERANIOL	Plant				Stitt, Paul. Why George should eat broccoli.
34	SALICYLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
31	CARYOPHYLLENE	Essential Oil		33000.0	-0.14865660979366116	--
31	CARYOPHYLLENE	Leaf	1.0	1430.0	0.1300669724943753	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	THIAMIN	Leaf	7.0	8.0	-0.06349209547044472	Father Nature's Farmacy: The aggregate of all these three-letter citations.
28	ALPHA-PINENE	Et		35000.0	1.0	--
28	ALPHA-PINENE	Leaf Essent. Oil	35000.0	55000.0	-0.4505855480163243	--
28	CALCIUM	Leaf	1696.0	10800.0	-0.5218305708813075	--
28	ALPHA-PINENE	Plant	7.0	1540.0	0.6083638735756228	--
28	ALPHA-PINENE	Essential Oil	11700.0	40100.0	-0.2072109908720455	--
27	LINOLEIC-ACID	Fruit Essent. Oil				--
27	LINOLEIC-ACID	Seed		73000.0	-0.29236236831545726	--
25	P-COUMARIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
24	CHROMIUM	Leaf	0.1	0.3	-0.621193465203015	--
24	VANILLIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
24	PECTIN	Shoot				--
23	ALPHA-TERPINEOL	Leaf	5.0	910.0	1.0071602347564552	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	TERPINEN-4-OL	Leaf	10.0	1120.0	0.29918716656064637	--
23	TERPINEN-4-OL	Leaf Essent. Oil	2000.0	3000.0	-0.523716551964413	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	TERPINEN-4-OL	Essential Oil		4500.0	-0.5734207195469667	--
23	ALPHA-TERPINEOL	Leaf Essent. Oil		1000.0	-0.8444420280137835	--
23	ALPHA-TERPINEOL	Essential Oil		3700.0	-0.6091856576306849	--
22	MYRCENE	Plant	0.0	336.0	-0.10695418064014987	--
22	MYRCENE	Et		8000.0	-1.0	--
22	MYRCENE	Essential Oil	3700.0	10400.0	-0.3077036496607786	--
22	MYRCENE	Leaf Essent. Oil	9000.0	15700.0	-0.3056695322092534	--
20	CARNOSOL	Resin, Exudate, Sap		36000.0		--
20	CARNOSOL	Shoot		34.0	-0.9354703756918734	--
20	CARNOSOL	Plant				--
20	CARNOSOL	Leaf		1660.0	-0.5296891454855135	--
18	TERPINEOL	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
18	TERPINEOL	Essential Oil				--
18	OLEIC-ACID	Seed		35500.0	-0.6872693677072723	--
18	OLEIC-ACID	Fruit Essent. Oil				--
17	THUJONE	Plant	2500.0	13000.0	1.9856348958487122	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
17	THUJONE	Leaf	1453.0	12636.0	1.4138087279087124	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
17	FARNESOL	Plant				--
17	THUJONE	Et		457000.0		--
17	THUJONE	Essential Oil	451300.0	531000.0	1.0	--
16	P-CYMENE	Shoot	15.0	495.0	-0.10900236438234769	--
16	P-CYMENE	Et		11000.0	-1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
16	P-CYMENE	Leaf Essent. Oil	7000.0	17700.0	-0.5156620336360256	--
16	P-CYMENE	Essential Oil	3100.0	5400.0	-0.5888102139189108	--
15	FIBER	Leaf		87000.0	-0.9217097607872751	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
15	MALIC-ACID	Plant				--
15	RIBOFLAVIN	Leaf	0.6	3.6	-0.16098657500422545	--
14	POTASSIUM	Plant	10700.0	11630.0	-0.7090536999047472	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
14	POTASSIUM	Leaf	3878.0	24700.0	-0.24922981870565544	--
14	MANGANESE	Leaf	0.5	3.0	-0.4548985090553243	--
13	PALMITIC-ACID	Seed				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
13	ALPHA-TERPINENE	Essential Oil		11200.0	-0.4634179308976379	--
13	DIOSMETIN	Plant				Stitt, Paul. Why George should eat broccoli.
13	ALPHA-TERPINENE	Leaf	10.0	56.0	-0.2834251845983478	--
13	BETA-PINENE	Et		18000.0		--
13	BETA-PINENE	Plant	20.0	1540.0	1.2273041399455444	--
13	BETA-PINENE	Leaf Essent. Oil	21000.0	55000.0	1.622889330955553	--
13	PALMITIC-ACID	Fruit Essent. Oil				--
13	BETA-PINENE	Essential Oil	11300.0	26100.0	-0.15085215632839455	--
13	BETULIN	Leaf		15.0	-0.47962706385165327	--
13	ALPHA-TERPINENE	Et		1000.0		--
13	ALPHA-TERPINENE	Leaf Essent. Oil		2000.0	-0.5761001164044018	--
12	PINENE	Essential Oil		84000.0	-1.0	--
12	STIGMASTEROL	Leaf	5.0	230.0	1.7806618408085848	--
12	COPPER	Leaf	7.0	8.0	-0.540960423661207	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	GLYCINE	Plant				Stitt, Paul. Why George should eat broccoli.
12	PINENE	Leaf	420.0	2352.0	-0.35113562909022744	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
12	STIGMASTEROL	Fruit Essent. Oil				--
12	BORNYL-ACETATE	Shoot	5.0	1780.0	2.5481701537732313	--
11	ALPHA-PHELLANDRENE	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
11	ALPHA-PHELLANDRENE	Essential Oil				--
11	GAMMA-TERPINENE	Leaf	15.0	140.0	-0.1019870841807531	--
11	GAMMA-TERPINENE	Et		4000.0		--
11	PANTOTHENIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
11	ALPHA-PHELLANDRENE	Leaf Essent. Oil				--
11	GAMMA-TERPINENE	Leaf Essent. Oil		3000.0	-0.6853547696905973	--
10	ALPHA-AMYRIN	Leaf		1800.0		--
10	CIRSILINEOL	Plant				Stitt, Paul. Why George should eat broccoli.
10	ALPHA-AMYRIN	Plant				--
9	TERPINOLENE	Leaf Essent. Oil		2000.0	-0.5940205732207128	--
9	DELTA-CADINENE	Plant	2.0	14.0	-0.4659017963716953	--
9	CAMPHENE	Et		47000.0		--
9	OXALIC-ACID	Plant				--
9	CAMPHENE	Leaf Essent. Oil	28000.0	66400.0	1.484566818920243	--
9	CAMPHENE	Essential Oil	30200.0	60700.0	1.1306904837156095	--
9	DELTA-CADINENE	Leaf Essent. Oil				--
9	BETA-AMYRIN	Plant				--
9	TERPINOLENE	Plant		112.0	0.2506839298132136	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	CAMPHENE	Leaf	20.0	18592.0	6.834837822452428	--
9	BETA-AMYRIN	Leaf		1000.0		--
8	CARYOPHYLLENE-OXIDE	Essential Oil		13100.0		--
8	STEARIC-ACID	Seed				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
8	STEARIC-ACID	Fruit Essent. Oil				--
8	CARYOPHYLLENE-OXIDE	Plant	55.0	308.0	0.16441757054150238	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	TYROSINE	Plant				Stitt, Paul. Why George should eat broccoli.
7	LUTEOLIN-7-GLUCOSIDE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
7	ISOBORNEOL	Shoot	0.0	784.0	1.1758265637832626	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
7	FUMARIC-ACID	Plant				--
7	CHRYSOERIOL	Plant				Stitt, Paul. Why George should eat broccoli.
7	HISPIDULIN	Leaf				--
7	ISOBORNEOL	Essential Oil		3800.0		--
7	ISOBORNEOL	Leaf Essent. Oil		28000.0	-1.0	--
7	LINALYL-ACETATE	Plant	0.0	6048.0	2.330313404492723	--
7	CARNOSOLIC-ACID	Leaf		2100.0		--
6	BETA-SITOSTEROL-D-GLUCOSIDE	Seed				--
6	ALPHA-THUJONE	Leaf Essent. Oil	200000.0	363300.0		--
6	ALPHA-THUJONE	Et		206000.0		--
6	IRON	Leaf	2.4	15.0	-0.8825570778618611	--
6	ALPHA-THUJONE	Essential Oil	73300.0	408500.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	MASLINIC-ACID	Leaf		46.0	-0.8872714302780136	--
6	UVAOL	Plant				--
6	ALPHA-THUJONE	Leaf	200.0	10172.0	2.575761084269138	--
5	ROSMANOL	Resin, Exudate, Sap				--
5	SABINENE	Leaf	10.0	56.0	-0.22552904691038753	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
5	SABINENE	Leaf Essent. Oil		2000.0	-0.6066700271910461	--
5	ROSMANOL	Plant				Stitt, Paul. Why George should eat broccoli.
5	GLUTAMINE	Plant				--
5	SABINENE	Essential Oil		1200.0	-0.5875917391877868	--
5	BETA-THUJONE	Leaf Essent. Oil	174000.0	356000.0		--
5	ALUMINUM	Leaf	18.0	115.0	-0.6571553869693828	--
5	BETA-THUJONE	Et		151000.0		--
5	BETA-THUJONE	Essential Oil	52300.0	142500.0		--
5	ROSMANOL	Shoot		11.0		--
5	BETA-THUJONE	Leaf	200.0	9968.0	2.7606909658238585	--
5	SABINOL	Leaf	85.0	476.0	0.31621378249351945	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
4	PHELLANDRENE	Essential Oil		20000.0		--
4	BORON	Leaf	25.0	41.0	-0.5517818218876644	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	PHELLANDRENE	Leaf	100.0	560.0	-0.35918289789876834	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
4	TIN	Leaf	1.3	8.0	-0.9124295958448216	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	SILICON	Leaf	0.5	3.1	-0.40397146474890056	--
4	PHOSPHORUS	Leaf	201.0	1280.0	-0.6791795625313858	--
4	NEPETIN	Plant				--
3	CIRSILIOL	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
3	ALPHA-CADINOL	Leaf Essent. Oil				--
3	SALVIOL	Essential Oil				--
3	SALVIN-MONOMETHYL-ETHER	Leaf				--
3	ALANINE	Plant				Stitt, Paul. Why George should eat broccoli.
3	SALVIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
3	BETA-PHELLANDRENE	Leaf	5.0	28.0	-0.39745256523265804	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	AROMADENDRENE	Plant				--
3	BETA-PHELLANDRENE	Leaf Essent. Oil		1000.0	-0.8347075553554938	--
3	CYNAROSIDE	Leaf				--
3	GENKWANIN	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
3	ALPHA-CEDRENE	Plant				Stitt, Paul. Why George should eat broccoli.
3	ALPHA-CEDRENE	Leaf Essent. Oil				--
2	CARNOSIC-ACID	Leaf		12400.0	1.5899657743835183	--
2	MYRTENOL	Leaf Essent. Oil		2000.0		--
2	ASPARAGINE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	CAMPESTEROL	Fruit				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	METHYL-ISOVALERATE	Plant	7.0	42.0		--
2	POMOLIC-ACID	Leaf		3.0	-1.0	--
2	COBALT	Leaf				--
2	CAMPESTEROL	Fruit Essent. Oil				--
2	TRANS-PINOCARVEOL	Leaf Essent. Oil				--
2	ALPHA-HUMULENE	Leaf	110.0	616.0	0.5782902434464878	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	ALPHA-HUMULENE	Et		21000.0		--
2	HUMULENE	Essential Oil		17900.0	-1.0	--
2	BETA-MYRCENE	Essential Oil				--
2	MANOOL	Shoot	556.0	1478.0		--
2	ALPHA-HUMULENE	Essential Oil		19300.0	-0.306582227205239	--
2	HUMULENE	Leaf Essent. Oil				--
2	MANOOL	Essential Oil				--
2	ALPHA-HUMULENE	Leaf Essent. Oil		29000.0	0.25622083823143005	--
2	PHYTOSTEROLS	Leaf		2440.0	0.0028854038801737	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
2	CAMPESTEROL	Leaf		120.0	-0.2035509596292973	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
2	CARNOSIC-ACID	Resin, Exudate, Sap		57000.0		--
2	3-ISOTHUJONE	Leaf				--
2	CARNOSIC-ACID	Shoot		35.0	-0.666399572485972	--
1	CHOLESTEROL	Fruit Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	ROSMADIAL	Resin, Exudate, Sap		6000.0		--
1	ISOROSMANOL	Shoot		57.0		--
1	VIRIDIFLOROL	Leaf				--
1	CHOLESTEROL	Fruit				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
1	DELTA-CADINOL	Leaf Essent. Oil				--
1	SODIUM	Plant	11.0	12.0	-0.30341378566295807	Father Nature's Farmacy: The aggregate of all these three-letter citations.
1	SODIUM	Leaf	170.0	1080.0	-0.4554694713688264	--
1	LABIATIC-ACID	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	ROSMANOL-9-ETHYL-ETHER	Shoot		144.0		--
1	SERINE	Plant				Stitt, Paul. Why George should eat broccoli.
1	ISOCARYOPHYLLENE	Plant				--
1	VIRIDIFLOROL	Essential Oil				--
0	APIGENIN-7-O-BETA-D-GLUCURONYLPYRANOSIDE	Shoot				--
0	ALPHA-THUJENE	Leaf	0.0	386.0	3.2507273876024785	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	ISOBORNEOL-ACETATE	Shoot	168.0	9436.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	LINOLENIC-ACID	Fruit Essent. Oil				--
0	POTASSIUM-NITRATE	Plant				--
0	THUJOL-ACETATE	Essential Oil		1300.0		--
0	GAMMA-CADINENE	Plant	2.0	14.0	-0.45984857009077795	--
0	SAPONIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LEDOL	Leaf Essent. Oil		3000.0	-1.0	--
0	6-METHOXYLUTEOLIN-7-METHYL-ETHER	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SAGERINIC-ACID	Plant		1300.0		--
0	N-TRIACONTANE	Plant				--
0	VALERANONE	Leaf Essent. Oil				--
0	AVENASTEROL	Fruit				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	TRICYCLENE	Leaf	15.0	84.0	1.3596086072298736	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	2-METHYL-3-METHYLENE-HEPT-TRANS-5-ENE	Leaf	5.0	28.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	(-)-THUJONE	Essential Oil				--
0	GAMMA-CADINENE	Leaf Essent. Oil				--
0	CARBOHYDRATES	Leaf	103620.0	660000.0	0.38292106761842515	--
0	DELTA-TERPINEOL	Leaf Essent. Oil				--
0	THIAMINE	Leaf	1.3	8.2	0.7312289774690919	--
0	ALLO-AROMADENDRENE	Leaf	15.0	84.0	-0.1830077223581628	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-BETA-THUJONE	Essential Oil		347000.0		--
0	SAGEQUINONE-METHIDE-A	Shoot		207.0		--
0	TRANS-SABINOL	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	2-METHYL-3-METHYLENE-HEPT-CIS-5-ENE	Leaf	40.0	224.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	DELTA-TERPINEOL	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	ROYLEANONE	Root		20300.0		--
0	BORNEOL-ACETATE	Leaf Essent. Oil	1000.0	63500.0	-0.028206534857999635	--
0	EUGENOL-GLUCOSIDE	Leaf		9.0		--
0	P-CYMEN-8-OL	Plant				--
0	CIS-BETA-TERPINEOL	Leaf Essent. Oil		2000.0		--
0	CINEOLE	Shoot	500.0	6075.0	1.0	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	LINALOOL-ACETATE	Et		10000.0		--
0	TANNINS	Leaf	785.0	10000.0	-1.0854284522770363	--
0	7-O-ACETYL-HORMINONE	Root				--
0	ISOBORNEOL-ACETATE	Essential Oil		33700.0	1.0	--
0	SAGEONE	Shoot	22.0	73.0		--
0	WAX	Plant				--
0	ASH	Leaf	13659.0	87000.0	-0.5611877153937178	--
0	LINOLENIC-ACID	Seed	42000.0	86750.0	0.9345778796061399	--
0	TRANS-SABINENE-HYDRATE	Leaf	10.0	56.0	1.6793837527948157	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	2-METHYL-3-METHYLENE-5-HEPTANE	Leaf	50.0	280.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BORNEOL-ACETATE	Et		26000.0		--
0	EPIROSMANOL	Shoot		1.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRICYCLEN	Leaf Essent. Oil		3000.0	-1.0	--
0	TRANS-SABINOL	Leaf Essent. Oil				--
0	CINAROSIDE	Shoot				--
0	LINALOOL-ACETATE	Leaf Essent. Oil	2000.0	34900.0	1.6339378873531796	--
0	FIBER(DIETARY)	Leaf		289000.0	-1.0282378241946064	--
0	7-METHOXY-ROSMANOL	Shoot		2.0	-1.0	--
0	SAFFICINOLIDE	Shoot	35.0	57.0		--
0	WATER	Leaf		843000.0	0.1764219759131201	--
0	ACETO-HYDROXY-ROYLEANONE	Plant				--
0	TRANS-OCIMENE	Plant				--
0	2-AMINO-ADIPIC-ACID	Shoot		1.6		--
0	ALPHA-THUJENE	Essential Oil		1200.0	-0.3928412484180114	--
0	BORNEOL-ACETATE	Essential Oil	17900.0	59000.0	-0.13264034547163733	--
0	EPIROSMANOL	Resin, Exudate, Sap				--
0	TRANS-SALVENE	Essential Oil		800.0		--
0	CALAMENE	Plant	5.0	28.0	1.0	--
0	LINALOOL-ACETATE	Essential Oil	2000.0	216000.0	1.9636083246350857	--
0	PLANTEOSE	Seed				--
0	FIBER(CRUDE)	Leaf		196000.0	1.790184111544934	--
0	SALVIGENIN-7-O-GLUCURONIDE	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	6,7-DIMETHOXY-ROSMANOL	Shoot		2.0		--
0	6-METHOXYLUTEOLIN-7-METHYL-ETHER	Plant				--
0	TRANS-ALLO-OCIMENE	Plant				--
0	2-ALPHA-HYDROXY-3-OXOLEAN-12-EN-28-OIC-ACID	Leaf		17.0		--
0	ALPHA-THUJENE	Leaf Essent. Oil		13800.0	-0.41897395872827414	--
0	TRANS-SABINENE-HYDRATE	Leaf Essent. Oil		2000.0	-1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-OLEANOLIC-ACID	Plant				--
0	ALPHA-MUUROLENE	Leaf Essent. Oil				--
0	EO	Leaf		20000.0	0.7445770670718886	--
0	SALVIGENIN	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	2-METHYL-3-METHYLENE-HEPT-TRANS-5-ENE	Leaf Essent. Oil		1000.0		--
0	HYDROXY-ROYLEANONE	Plant				--
0	BETA-OLEANOLIC-ACID	Plant				--
0	6-METHOXYLUTEOLIN	Plant				--
0	FAT	Seed		250000.0	-0.08105194719463996	--
0	APIGENIN-7-O-BETA-D-GLUCURONYLPYRANOSIDE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	LINALOL	Plant	0.0	3500.0	0.3590366860587444	--
0	TRANS-3-HEXENAL	Plant				--
0	2-ALPHA,3-ALPHA-DIHYDROXY-OLEAN-12-EN-28-OIC-ACID	Leaf				--
0	ALPHA-TERPINEOL ACETATE	Et		9000.0		--
0	GERMANICOL	Plant				--
0	PICROSALVIN	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	(-)-THUJONE	Plant	2500.0	13000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CARNOSIC-ACID-METHYL-ESTER	Resin, Exudate, Sap		39000.0		--
0	2-METHYL-3-METHYLENE-HEPT-CIS-5-ENE	Leaf Essent. Oil		8000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-COPAENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	6-METHOXYGENKWANIN-7-METHYL-ETHER	Plant				--
0	FAT	Leaf	21666.0	138000.0	1.6247882242706593	--
0	SALVIATANNIN	Leaf				--
0	LEDENE	Plant				--
0	1-OCTEN-3-OL	Plant				--
0	CIS-SABINENE-HYDRATE	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	RESIN	Plant	50000.0	60000.0	-0.5271561735476993	--
0	TRANS-BETA-OCIMENE	Leaf Essent. Oil				--
0	ALPHA-GURJUNENE	Plant				--
0	CARNOSIC-ACID-METHYL-ESTER	Shoot		45.0		--
0	SPATHULENOL	Leaf Essent. Oil				--
0	1,8-CINEOL	Leaf				--
0	BETA-CARYOPHYLLENE	Leaf	500.0	760.0	0.03728060572503595	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LUTEOLIN-7-O-GLUCURONIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	6-METHOXY-GENKWANIN	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	BETA-CARYOPHYLLENE	Et		41000.0		--
0	PECTOLINAMARIGENIN	Plant				Stitt, Paul. Why George should eat broccoli.
0	1,8-CINEOLE-SYNTHESE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CIS-BETA-TERPINEOL	Leaf	10.0	56.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	PROTEIN	Seed		180000.0	-0.4785438804290316	--
0	AVENASTEROL	Fruit Essent. Oil				--
0	CIS-SALVENE	Essential Oil		3200.0		--
0	NICOTINIC-ACID-AMIDE	Plant		5000.0		--
0	ALPHA-COROCALENE	Plant				--
0	CARNOSIC-ACID-12-METHYL-ETHER	Shoot				--
0	SELIN-11-EN-4-OL	Leaf Essent. Oil		54000.0		--
0	HORMINONE	Root				--
0	LUTEOLIN-7-O-BETA-D-GLUCOSIDE	Plant				Stitt, Paul. Why George should eat broccoli.
0	5-METHOXYSALVIGENIN	Leaf				--
0	BETA-CARYOPHYLLENE	Essential Oil	18900.0	66000.0	-0.22342680293575198	--
0	EPIOLEANOLIC-ACID	Leaf		20.0		--
0	SACCHAROPINE	Shoot		1.6	-0.7071067811865464	--
0	1,8-CINEOL	Et		50000.0		--
0	ALPHA-URSOLIC-ACID	Plant				--
0	KILOCALORIES	Leaf		3420.0	0.6478563559445962	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	CIRSIMARITRIN	Plant				Stitt, Paul. Why George should eat broccoli.
0	LUTEOLIN-7-GLYCOSIDE	Root				--
0	PROTEIN	Leaf	18055.0	115000.0	-0.9661229417649582	--
0	CIS-SABINENE-HYDRATE	Leaf Essent. Oil				--
0	ROSMANOL-7-ETHYL-ETHER	Shoot		144.0		--
0	SELINA-5,11-DIENE	Plant				--
0	ALPHA-COPAENE	Leaf Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SALVIGENIN	Shoot				--
0	BETA-URSOLIC-ACID	Plant				--
0	LUTEOLIN-7-METHYL-ETHER	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	URS-12-EN-28-OIC-ACID	Leaf		14.0		--
0	3-EPIOLEANOLIC-ACID	Leaf		1.4		--
0	BETA-CARYOPHYLLENE	Leaf Essent. Oil		11000.0	-0.34048091992384494	--
0	EO	Plant	5000.0	28000.0	1.3878217608821395	--
0	O-METHYL-CARNOSIC-ACID	Shoot		17.0		--
0	SABINYL-ACETATE	Plant	110.0	616.0		--
0	1,8-CINEOL	Essential Oil	73000.0	217000.0	1.9052102662799937	--
0	CIRSILION	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	PRISTANE	Leaf		56.0		--
0	ALLO-AROMADENDRENE	Essential Oil		1800.0	-1.0	--
0	CIS-BETA-OCIMENE	Leaf Essent. Oil				--
0	GAMMA-MAALIENE	Plant				--
0	SALVIANOLIC-ACID-K	Plant		5760.0		--
0	LUTEOLIN-7-GLYCOSIDE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	3-CARENE	Plant				--
0	BETA-BOURBONENE	Leaf Essent. Oil				--
0	DIPENTENE-O-DIPHENOLLACTONE	Leaf		3500.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OLEAN-12-EN-28-OIC-ACID	Shoot		86.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	1,8-CINEOL	Leaf Essent. Oil	91000.0	357000.0	1.9399550242552641	--