

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Petroselinum crispum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	(+)-LIMONENE	Seed Essent. Oil		21000.0	-0.7302616329582117	--
0	(+)-M-MENTHA-1(6),8-DIENE	Fruit Essent. Oil		56400.0		--
0	0-METHYLBENZYL-ACETATE	Leaf		0.36		--
0	1,3,8-P-MENTHATRIENE	Seed		87.0		--
0	1,3,8-P-MENTHATRIENE	Leaf	63.0	1090.0		--
0	1-ALLYL-2,3,4,5-TETRAMETHOXYBENZENE	Seed	5.0	26600.0		--
0	1-ALLYL-2,3,4,5-TETRAMETHOXYBENZENE	Seed Essent. Oil		8000.0		--
0	1-ALLYL-2,3,4,5-TETRAMETHOXYBENZENE	Fruit Essent. Oil		380000.0		--
0	1-METHYL-4-ISOPROPENYL-BENZENE	Leaf	30.0	100.0	1.0	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	1-METHYL-4-ISOPROPENYL-BENZENE	Plant				--
0	2,3,4,5-TETRAMETHOXYBENZENE	Seed				--
0	2,3-DIOXA-1-METHYL-4-(METHYL-ETHENYL)-BICYCLO-(2,2,2)-OCT-5-ENE	Plant				--
0	2,3-DIOXA-1-METHYL-4-(METHYL-ETHENYL)-BICYCLO-(2,2,2)-OCT-5-ENE	Leaf				--
0	2-(P-TOLUYL)-PROPAN-2-OL	Plant				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	2-ALPHA-TOLYL-PROPENE	Leaf				--
0	2-PENTYL-FURAN	Leaf				--
0	3,8-DIOXA-4-METHYL-7-(METHYL-ETHENYL)-TRICYCLO-(5,1,0)-OCTANE	Leaf				--
10	3-N-BUTYL-PHTHALIDE	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	4-(BETA-D-GLUCOPYRANOSYLOXY)-BENZOIC-ACID	Seed		165.0	-0.6951361116182081	--
0	4-ISOPROPENYL-1-METHYL-BENZENE	Seed		87.0		--
0	4-ISOPROPENYL-1-METHYL-BENZENE	Leaf		27.0		--
0	4-ISOPROPYL-CYCLOHEX-2-ENONE	Leaf		0.42		--
0	4-PROPAN-1-AL-2-YL-TOLUENE	Leaf				--
0	4-PROPAN-2-OL-2-YL-TOLUENE	Leaf				--
10	5-METHOXY-PSORALEN	Leaf		10.0		--
10	5-METHOXY-PSORALEN	Fruit	0.0	12.0	1.671258043593467	--
0	6"-O-MALONYLAPIIN	Leaf				--
0	6,7-DIHYDRO-8,8-DIMETHYL-2(H),8(H)BENZO-(1,2B,5,4B'-DIPYRAN-2-6-DIONE	Seed		12.0		--
0	6-ACETYL-7-HYDROXY-COUMARIN	Seed		5.0		--
0	7-OCTADECANOIC-ACID	Seed				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
21	8-METHOXY-PSORALEN	Fruit	0.0	5.0	1.4142135623730951	Abstract (See species file)
0	ALLYL-TETRAMETHOXYBENZENE	Fruit Essent. Oil		231000.0		--
3	ALPHA-CADINOL	Leaf		0.18	-1.2011328867275084	--
0	ALPHA-COPAENE	Leaf		7.92	-0.30918955280514493	--
0	ALPHA-CUBEBENE	Leaf		1.86	-0.4017173853746015	--
0	ALPHA-ELEMENE	Leaf				--
0	ALPHA-GURJUNENE	Leaf		4.92	-0.5845154749782401	--
0	ALPHA-NEROLIDOL	Leaf		0.18		--
11	ALPHA-PHELLANDRENE	Seed	0.6	210.0	-0.868831985294824	--
11	ALPHA-PHELLANDRENE	Leaf		4.3	-0.31127192594515707	--
11	ALPHA-PHELLANDRENE	Seed Essent. Oil		1000.0	-1.1132822700487859	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	ALPHA-PHELLANDRENE	Fruit Essent. Oil	3000.0	7300.0	-1.3339882069903475	--
28	ALPHA-PINENE	Seed	1.0	31080.0	2.8922858120503183	--
28	ALPHA-PINENE	Root				--
28	ALPHA-PINENE	Leaf		5.0	-0.22421990066028927	--
28	ALPHA-PINENE	Fruit				--
28	ALPHA-PINENE	Fruit Essent. Oil	2000.0	248500.0	2.440212578691428	--
28	ALPHA-PINENE	Seed Essent. Oil		444000.0	2.321492606163716	--
13	ALPHA-TERPINENE	Fruit Essent. Oil		18000.0	1.4059992805239898	--
13	ALPHA-TERPINENE	Seed Essent. Oil				--
13	ALPHA-TERPINENE	Leaf		0.24	-0.3122383225174671	--
23	ALPHA-TERPINEOL	Seed		22.0	-0.4966224562065264	--
23	ALPHA-TERPINEOL	Leaf		2.7	-0.5855092882648406	--
0	ALPHA-TERPINOLENE	Leaf				--
0	ALPHA-THUJENE	Seed Essent. Oil		7000.0	-1.0	--
0	ALPHA-THUJENE	Seed	4.0	490.0	1.2676723818974631	--
0	ALPHA-THUJENE	Fruit Essent. Oil	1000.0	2600.0	-0.7283514630459411	--
0	ALPHA-THUJENE	Leaf		0.1	-0.6172292566864845	--
32	ALPHA-TOCOPHEROL	Leaf	36.0	252.0	-0.27610251738330455	--
5	ALUMINUM	Plant	2.0	22.0	-0.7133220257495717	--
101	APIGENIN	Plant				Stitt, Paul. Why George should eat broccoli.
101	APIGENIN	Tissue Culture				--
0	APIGENIN-7-0-BETA-D-GLUCOSIDE	Plant				--
0	APIGENIN-7-APIOSYLGLUCOSIDE	Fruit				--
0	APIGENIN-7-APIOSYLGLUCOSIDE	Seed				--
0	APIGENIN-7-GLUCOAPIOSIDE	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	APIGENIN-7-O-BETA-D-GLUCOSIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	APIIN	Seed				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
4	APIIN	Tissue Culture				--
4	APIIN	Plant				--
4	APIIN	Shoot				--
4	APIIN	Leaf				--
2	APIOL	Shoot				--
2	APIOL	Rhizome				--
2	APIOL	Seed Essent. Oil		576000.0		--
2	APIOL	Fruit		36580.0		--
2	APIOL	Root Essent. Oil				--
2	APIOL	Seed		34500.0		--
2	APIOL	Root				--
2	APIOL	Essential Oil				--
2	APIOL	Leaf				--
2	APIOL	Leaf Essent. Oil				--
2	APIOL	Fruit Essent. Oil	180000.0	497300.0		--
20	APIOLE	Seed	19650.0	36580.0	1.0	--
20	APIOLE	Leaf	0.36	350.0		--
0	APIOSE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	ARSENIC	Plant	0.01	0.21	-0.44036097158714854	--
112	ASCORBIC-ACID	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
112	ASCORBIC-ACID	Plant	430.0	7695.0	1.2127858660899764	--
112	ASCORBIC-ACID	Leaf				--
112	ASCORBIC-ACID	Fruit		1220.0	-0.20863307434385805	--
0	ASH	Plant	10823.0	137000.0	0.2888284424126049	--
0	BARIUM	Plant	28.0	40.0	-0.4850890771296821	--
24	BENZALDEHYDE	Leaf				--
0	BENZOIC-ACID-4-O-BETA-D-GLUCOSIDE	Shoot		3.0		--
26	BERGAPTEN	Fruit				--
26	BERGAPTEN	Tissue Culture				--
26	BERGAPTEN	Leaf		64.0	-0.5753159910149902	--
26	BERGAPTEN	Shoot	5.0	2000.0	1.0	--
26	BERGAPTEN	Plant		990.0	1.0	--
26	BERGAPTEN	Seed				--
26	BERGAPTEN	Root				--
6	BETA-BISABOLENE	Seed		22.0	-0.8122766560766513	--
6	BETA-BISABOLENE	Leaf		2.76	-0.4259386179214522	--
53	BETA-CAROTENE	Shoot				--
53	BETA-CAROTENE	Plant	12.0	154.0	0.10686772072473448	--
0	BETA-CARYOPHYLLENE	Fruit Essent. Oil	11000.0	62100.0	-0.1770999112945981	--
0	BETA-CARYOPHYLLENE	Seed	6.6	770.0	-0.2508424294303912	--
0	BETA-CARYOPHYLLENE	Leaf		2.46	-0.33362497855888384	--
5	BETA-ELEMENE	Leaf		5.4	-0.39161391430469633	--
0	BETA-FARNESENE	Leaf		3.9	-1.5174172088916698	--
0	BETA-FARNESENE	Seed		25.0	-1.0	--
3	BETA-PHELLANDRENE	Seed	43.0	4970.0	1.6370507088688995	--
3	BETA-PHELLANDRENE	Leaf	60.0	530.0	0.8015595197817582	--
3	BETA-PHELLANDRENE	Seed Essent. Oil		71000.0	1.8705559734598718	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	BETA-PHELLANDRENE	Fruit Essent. Oil		35100.0	-0.618205207830777	--
5	BETA-PHENYLETHANOL	Seed				--
5	BETA-PHENYLETHANOL	Fruit Essent. Oil				--
13	BETA-PINENE	Seed	1.0	26460.0	2.5421676332016094	--
13	BETA-PINENE	Leaf		2.4	-0.42558968215063736	--
13	BETA-PINENE	Fruit Essent. Oil	2000.0	203900.0	1.7864326694940778	--
13	BETA-PINENE	Seed Essent. Oil		378000.0	1.9849640052137334	--
3	BETA-SELINENE	Leaf		1.68	-0.5078272560179726	--
47	BETA-SITOSTEROL	Leaf	20.0	180.0	-0.9793951214818801	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
0	BICYCLOGERMACRENE	Leaf		5.16	-0.2775981741216532	--
0	BIS-NORYANGONIN	Tissue Culture				--
4	BORON	Plant	4.0	54.0	-0.2700616413387917	--
0	BROMINE	Plant	3.0	21.0	-0.4562268205101402	ACTA AGRIC SCAND SUPPL 22: 1980
3	CADMIUM	Plant	0.01	0.57	-0.5534831889233711	--
102	CAFFEIC-ACID	Stem				--
28	CALCIUM	Shoot		1600.0	-0.9589707171943687	--
28	CALCIUM	Plant	1000.0	16850.0	0.34877611734080916	--
2	CAMPESTEROL	Sprout Seedling				Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
9	CAMPHENE	Fruit Essent. Oil	7000.0	20800.0	1.3574673725411264	--
9	CAMPHENE	Seed	3.0	490.0	0.10432519258473769	--
9	CAMPHENE	Seed Essent. Oil		5000.0	0.29045559805793825	--
9	CAMPHENE	Leaf		0.24	-0.19260216125051532	--
9	CAMPHENE	Fruit				--
0	CAR-3-ENE	Fruit Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CAR-3-ENE	Seed Essent. Oil				--
0	CAR-3-ENE	Leaf				--
0	CARBOHYDRATES	Plant	69100.0	590805.0	-0.5253522396245337	--
0	CAROTENE	Fruit				--
0	CAROTOL	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	CARVEOL	Leaf		3.9	-1.0	--
0	CHALCONE-FLAVONOID-ISOMERASE	Tissue Culture				--
0	CHALCONE-SYNTHASE	Tissue Culture				--
7	CHLORINE	Shoot				--
77	CHLOROGENIC-ACID	Stem				--
24	CHROMIUM	Plant	0.1	0.6	-0.8071397754932234	--
0	CHRYSOERIOL-7-O-BETA-D-GLUCOSIDE	Seed				--
0	CHRYSOERIOL-7-O-BETA-D-GLUCURONIDE	Leaf				--
0	CIS-3-HEXEN-1-OL	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CIS-3-HEXEN-1-OL	Leaf		18.6	-0.6668120589054743	--
0	CIS-BETA-OCIMENE	Leaf				--
0	CIS-BETA-OCIMENE	Plant				--
0	CIS-LIGUSTILIDE	Root				--
23	CITRIC-ACID	Root				--
2	COBALT	Plant	0.4	4.7	-0.3238737292236686	--
12	COPPER	Plant	1.0	12.0	-0.22332832033423827	--
0	CRISPANE	Seed		104.0		--
0	CRISPANONE	Seed		108.0		--
0	CRYPTONE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CYMOL	Seed Essent. Oil				--
8	DELTA-3-CARENE	Leaf		0.12	-0.49033769755843665	--
9	DELTA-CADINENE	Seed		109.0		--
9	DELTA-CADINENE	Leaf		1.38	-0.458077395302066	--
1	DELTA-CADINOL	Leaf				--
6	DILLAPIOL	Fruit Essent. Oil		37000.0		--
0	DIMETHYL-BENZOFURAN	Leaf				--
2	DIMETHYL-SULFIDE	Leaf				--
0	E0	Leaf		600.0		--
16	ELEMICIN	Seed		821.0	-1.10707303552368	--
16	ELEMICIN	Leaf		18.0	-0.6965246951674532	--
16	ELEMICIN	Fruit Essent. Oil		42700.0		--
0	EO	Seed	15000.0	70000.0	0.33443352078718097	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	EO	Root	500.0	5000.0	-0.41927924121066534	--
0	EO	Plant	40.0	3000.0	-0.5121339088100166	--
0	EO	Leaf	600.0	3000.0	-0.7507396833089339	--
0	EO	Fruit		600.0	-0.8082996907619691	--
10	ERIODICTYOL	Tissue Culture				--
10	ERIODICTYOL	Plant				Stitt, Paul. Why George should eat broccoli.
12	ESTRAGOLE	Leaf		1.6	-0.8859248040447191	--
24	ETHANOL	Leaf				--
24	ETHANOL	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	FALCARINDIOL	Root				--
16	FALCARINOL	Root		10.0	-0.8410871090127134	--
3	FALCARINONE	Root		15.0	0.9999999999999998	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FAT	Seed	130000.0	330000.0	0.3403366687406834	--
0	FAT	Plant	3792.0	48000.0	-0.05468700183087534	--
15	FIBER	Plant	12000.0	202464.0	-0.1503987970331505	--
0	FIBER(CRUDE)	Plant		113000.0	0.1654290037069817	--
0	FIBER(DIETARY)	Plant		293000.0	-0.7675395352257373	--
0	FLAVANONE-SYNTASE	Tissue Culture				--
0	FLAVONOIDS	Tissue Culture				--
0	FLUORINE	Plant	0.6	7.8	1.407465487079582	ACTA AGRIC SCAND SUPPL 22: 1980
15	FOLACIN	Plant	2.0	17.0	-0.4558411287938474	USDA's Ag Handbook 8 and sequelae)
7	FUMARIC-ACID	Root				--
0	FURANOCOUMARINS	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	GAMMA-CADINENE	Leaf				--
0	GAMMA-ELEMENE	Leaf				--
11	GAMMA-TERPINENE	Fruit Essent. Oil	16000.0	36300.0	1.3597633205634474	--
11	GAMMA-TERPINENE	Seed Essent. Oil		5000.0	-1.0642536337764155	--
11	GAMMA-TERPINENE	Seed	3.0	1120.0	-0.6266101249241767	--
11	GAMMA-TERPINENE	Leaf		0.42	-0.37111331477411363	--
35	GERANIOL	Leaf		1.26	-0.22989043119456826	--
2	GERMACRENE-D	Leaf		6.9	-0.5194683777682332	--
4	GLYCOLIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	GLYCOLIC-ACID	Root				--
0	GRAVEOLONE	Leaf				--
0	GRAVEOLONE	Tissue Culture				--
0	HERACLENOL	Seed		3.7		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEX-3-EN-1-YL-ACETATE	Leaf				--
0	HEX-3-EN-1-YL-ACETATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	HEX-CIS-3-EN-1-OL	Leaf				--
0	HEX-CIS-3-EN-1-YL-ACETATE	Plant				--
0	HEXADECENOIC-ACID	Leaf		0.24		--
0	HEXAN-1-AL	Leaf				--
25	IMPERATORIN	Leaf		0.53		--
25	IMPERATORIN	Fruit	1.0	6.0	-0.6700467093873878	--
8	INOSITOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	IRON	Plant	1.3	17.0	-0.7182830071194793	--
6	IRON	Shoot				--
8	ISOIMPERATORIN	Leaf				--
8	ISOIMPERATORIN	Root		500.0		--
8	ISOIMPERATORIN	Fruit	0.0	6.0	-0.4133836909571628	--
15	ISOPIMPINELLIN	Shoot	0.3	79.0	-1.0	--
15	ISOPIMPINELLIN	Fruit				--
15	ISOPIMPINELLIN	Root				--
15	ISOPIMPINELLIN	Plant				--
15	ISOPIMPINELLIN	Tissue Culture				--
15	ISOPIMPINELLIN	Leaf	1.8	28.0		--
0	JASMONIC-ACID	Leaf				--
75	KAEMPFEROL	Plant				Stitt, Paul. Why George should eat broccoli.
0	LEAD	Plant	0.08	4.0	-0.45099044821147605	--
0	LF	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Fruit Essent. Oil	10000.0	60100.0	-1.071797856637218	--
60	LIMONENE	Seed Essent. Oil				--
60	LIMONENE	Seed	6.0	1470.0	-0.6588822047761124	--
60	LIMONENE	Leaf		16.0	-0.4309522084568708	--
0	LINALOL	Leaf		0.12	-0.442528334147384	--
53	LINALOOL	Leaf		0.12	-0.647360756009463	--
11	LITHIUM	Plant	0.76	0.792	-1.0	--
15	LUTEIN	Shoot				--
15	LUTEIN	Plant				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	LUTEOLIN-7-APIOSYL-GLUCOSIDE	Seed				--
0	LUTEOLIN-7-APIOSYL-GLUCOSIDE	Fruit				--
0	LUTEOLIN-7-DIGLUCOSIDE	Plant				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	LUTEOLIN-7-O-BETA-D-APIOGLUCOSIDE	Plant				--
4	LYSINE	Plant	2190.0	18724.0	1.068243764451732	USDA's Ag Handbook 8 and sequelae)
0	M-XYLENE	Leaf				--
65	MAGNESIUM	Plant	250.0	3160.0	-0.28134422251463814	--
15	MALIC-ACID	Root				--
14	MANGANESE	Plant	0.5	6.0	-0.6519018200346285	--
1	MERCURY	Plant	0.004	0.37	-0.4834929186399312	--
2	METHANOL	Leaf				--
15	METHIONINE	Plant	150.0	1282.0	-0.36062849626303595	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	METHYL-DISULFIDE	Leaf				--
0	METHYL-DISULFIDE	Plant				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
2	MOLYBDENUM	Plant	0.1	14.0	1.719900856164318	--
3	MUCILAGE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
22	MYRCENE	Seed	168.0	1680.0	-0.11187948982801763	--
22	MYRCENE	Leaf	18.0	255.0	-0.08065814342714553	--
22	MYRCENE	Seed Essent. Oil		24000.0	-0.4688443199240226	--
22	MYRCENE	Fruit Essent. Oil		5200.0	-1.2495192038656824	--
6	MYRISTIC-ACID	Seed				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
31	MYRISTICIN	Fruit				--
31	MYRISTICIN	Leaf Essent. Oil		141176.0		--
31	MYRISTICIN	Seed Essent. Oil		108000.0	-1.0	--
31	MYRISTICIN	Seed	14785.0	19800.0	1.3798434351573292	--
31	MYRISTICIN	Root Essent. Oil				--
31	MYRISTICIN	Plant	425.0	2550.0	1.0	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
31	MYRISTICIN	Root				--
31	MYRISTICIN	Leaf	131.0	960.0	-0.31201750441513737	--
31	MYRISTICIN	Fruit Essent. Oil	10000.0	7500000.0		--
0	MYRISTOLIC-ACID	Seed				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-HEXANAL	Leaf		0.4	-1.0	--
0	N-HEXANOL	Leaf		0.2	-1.0000000000000002	--
56	NARINGENIN	Plant				Stitt, Paul. Why George should eat broccoli.
56	NARINGENIN	Tissue Culture				--
2	NEOXANTHIN	Shoot				--
4	NERAL	Leaf		2.9	-0.3859763862907193	--
39	NIACIN	Plant	7.0	87.0	0.1441247016236409	--
3	NICKEL	Plant	0.1	8.5	1.3678940092779688	--
2	NICOTINAMIDE	Plant				Stitt, Paul. Why George should eat broccoli.
11	NICOTINIC-ACID	Tissue Culture				--
11	NICOTINIC-ACID	Sprout Seedling				--
0	NICOTINIC-ACID-BETA-D-GLUCOSIDE	Tissue Culture				--
0	NICOTINIC-ACID-N-ALPHA-L-ARABINOSIDE	Tissue Culture				--
0	NICOTINIC-ACID-N-BETA-D-GLUCOSIDE	Tissue Culture				--
0	NITROGEN	Leaf	4900.0	40700.0	-0.15362670771204504	ACTA AGRIC SCAND SUPPL 22: 1980
0	O-METHYLBENZYL-ACETATE	Leaf		0.36		--
0	OCTADEC-7-ENOIC-ACID	Fruit				--
18	OLEIC-ACID	Fruit				--
18	OLEIC-ACID	Seed		53000.0	-0.5434090926367003	--
15	OSTHOL	Fruit Essent. Oil		56000.0		--
4	OSTHOLE	Plant	840.0	3975.0	1.4062541963603976	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
6	OXYPEUCEDANIN	Leaf		100.0	-1.0	--
6	OXYPEUCEDANIN	Fruit	7.0	26.0		--
2	OXYPEUCEDANIN-HYDRATE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	P-COUMARATE-COENZYME-1A-LIGASE	Tissue Culture				--
25	P-COUMARIC-ACID	Stem				--
16	P-CYMENE	Fruit Essent. Oil		28000.0	0.8742799553144132	--
16	P-CYMENE	Seed		34.0	-0.7268387752889803	--
16	P-CYMENE	Leaf		1.44	-0.39891714087745833	--
0	P-CYMENE-8-OL	Seed		28.0		--
0	P-CYMENE-8-OL	Leaf		4.38	-0.9999999999999992	--
0	P-MENTHA-1,3,8-TRIENE	Leaf				--
0	P-MENTHATRIENE	Leaf		0.36		--
0	P-MENTHATRIENOLE	Leaf	0.84	18.3		--
0	P-MENTHYL-ACETOPHENONE	Seed		31.0		--
0	P-MENTHYL-ACETOPHENONE	Leaf		3.66		--
2	P-METHYL-ACETOPHENONE	Leaf				--
0	P-XYLENE	Leaf				--
13	PALMITIC-ACID	Seed		5000.0	-0.5964348259626931	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
13	PALMITIC-ACID	Fruit Essent. Oil		5000.0		--
11	PANTOTHENIC-ACID	Plant	3.0	26.0	-0.2201468605238584	USDA's Ag Handbook 8 and sequelae)
1	PENTATRIACONTANE	Leaf		0.18		--
0	PETROSELINIC-ACID	Seed Oil				--
0	PETROSELINIC-ACID	Fruit				--
0	PETROSELINIC-ACID	Seed	100000.0	300000.0	-1.0351034848112577	--
6	PHENETHYL-ALCOHOL	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PHENYALANINE-AMMONIA-LYASE	Tissue Culture				--
2	PHENYL-ACETALDEHYDE	Leaf				--
0	PHENYLALANINE-AMMONIA-LYASE	Tissue Culture				--
4	PHOSPHORUS	Shoot				--
4	PHOSPHORUS	Plant	324.0	4100.0	0.2457194116609105	--
5	PHYLLOQUINONE	Leaf		5.48	0.7535864349153043	--
2	PHYTOSTEROLS	Leaf	50.0	450.0	-0.6806805153514085	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
14	POTASSIUM	Plant	4425.0	53833.0	2.23414657121527	--
0	PROTEIN	Seed		191000.0	-0.38069318377058897	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Plant	20000.0	254096.0	0.6607675264472858	--
43	PROTocatechuic-acid	Stem				--
31	PSORALEN	Leaf	2.5	33.0	-0.7027180129457828	--
31	PSORALEN	Tissue Culture				--
31	PSORALEN	Fruit	1.0	10.0	-0.4628284057663575	--
31	PSORALEN	Root				--
176	QUERCETIN	Leaf				--
176	QUERCETIN	Plant				Stitt, Paul. Why George should eat broccoli.
176	QUERCETIN	Tissue Culture				--
1	QUINIC-ACID	Root				--
15	RIBOFLAVIN	Plant	1.0	13.5	0.14552068492219167	--
57	ROSMARINIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
0	RUBIDIUM	Leaf	2.2	65.0	0.8899436633016005	ACTA AGRIC SCAND SUPPL 22: 1980
87	RUTIN	Leaf		30000.0	0.8579223754965293	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
87	RUTIN	Shoot		44480.0	2.746754959397039	Varnaite, R. 1988. Rutin Content in Capsicum, Capsella, Urtica, Primula, Lepidium, Lactuca, Brassica, Anethum, Beta, Petroselinum, Allium Genera Representatives. Liet Tsr Mokslu Akad Darb Ser C, 4: 29-32.
5	SABINENE	Seed	1.0	1190.0	-0.3863132836596433	--
5	SABINENE	Leaf		0.54	-0.2608648090275	--
5	SABINENE	Seed Essent. Oil		17000.0	-0.4094438152245345	--
5	SABINENE	Fruit Essent. Oil		10400.0	-0.6587030409909505	--
7	SALICYLATES	Leaf	0.8	4.0	-0.5683122203043024	--
0	SANTENE	Seed	1.0	140.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	SANTENE	Fruit Essent. Oil		2000.0		--
0	SAXALIN	Leaf				--
1	SEDANENOLIDE	Seed				--
60	SELENIUM	Plant	0.001	0.021	-0.4265847116409652	--
0	SENKYUNOLIDE	Root		5.0	-1.0	Abstract (See species file)
0	SESQUIPELLANDRENE	Leaf				--
14	SHIKIMIC-ACID	Root				--
4	SILICON	Plant	0.3	3.6	-0.5244328221889293	--
4	SILICON	Leaf	60.0	1425.0	3.8252310014499527	ACTA AGRIC SCAND SUPPL 22: 1980
3	SILVER	Plant	0.19	0.2		--
1	SODIUM	Plant	404.0	5110.0	-0.021207392137970946	--
8	STEARIC-ACID	Seed				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	STIGMASTEROL	Sprout Seedling	20.0	180.0	-0.8172423753879353	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
0	STRONTIUM	Plant	285.0	396.0	1.6348966326239824	--
7	SUCCINIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
7	SUCCINIC-ACID	Root				--
0	SUGARS	Plant	7110.0	90000.0	-0.2500180771944431	--
14	SULFUR	Plant	380.0	4700.0	0.35776302805165466	--
6	TARTARIC-ACID	Root				--
6	TAURINE	Plant				Stitt, Paul. Why George should eat broccoli.
23	TERPINEN-4-OL	Leaf		0.72	-0.3399114114851954	--
9	TERPINOLENE	Seed	6.0	700.0	-0.1567036907285562	--
9	TERPINOLENE	Leaf	33.0	105.0	-0.09833783481282221	--
9	TERPINOLENE	Fruit Essent. Oil	10000.0	50500.0	1.4139927352702726	--
0	TETRADECANAL	Leaf		3.84	-1.0	--
0	TETRAMETHOXYALLYLBENZENE	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	TETRAMETHOXYALLYLBENZENE	Fruit Essent. Oil				--
0	TETRAMETHOXYALLYLBENZENE	Fruit				--
31	THIAMIN	Plant	0.0	7.0	-0.050998827890408445	--
0	THIAMINE	Plant	0.2	2.0	-0.4618949437111338	--
71	THYMOL	Leaf		32.0	-0.4026253885663395	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	TIN	Plant	1.0	14.0	-0.4656082470551236	--
0	TITANIUM	Plant	1.0	2.0	-1.4756031773377647	--
1	TOLUENE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	TRANS-2-HEXENAL	Leaf		12.5		--
1	TRANS-2-HEXENOL	Leaf		0.2		--
0	TRANS-BETA-OCIMENE	Leaf				--
0	TRANS-BETA-OCIMENE	Plant				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
15	TRIGONELLINE	Tissue Culture				--
22	UMBELLIFERONE	Leaf				--
0	URONIC-ACID	Root				--
2	VIOLAXANTHIN	Shoot				--
0	VIT-A	Shoot				--
0	VIT-B-1	Shoot				--
0	VIT-B-6	Plant	2.0	14.0	-1.0	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
11	VIT-B2	Tissue Culture				--
11	VIT-B2	Shoot				--
0	WATER	Plant		921000.0	0.6424537912023661	--
43	XANTHOTOXIN	Fruit				--
43	XANTHOTOXIN	Shoot	3.0	289.0	1.1050356026721566	--
43	XANTHOTOXIN	Root				--
43	XANTHOTOXIN	Plant				--
43	XANTHOTOXIN	Tissue Culture				--
43	XANTHOTOXIN	Leaf	3.0	15.0	-1.0	--
77	ZINC	Plant				--
0	ZIRCONIUM	Plant	3.8	4.0	0.35149982013099734	--