

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Ocimum basilicum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
67	1,8-CINEOLE	Plant		135.0	-0.5237695990512106	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
67	1,8-CINEOLE	Plant		135.0	-0.5237695990512106	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
16	ACETIC-ACID	Essential Oil				--
32	AESCULETIN	Leaf				--
33	AESCULIN	Leaf				--
3	AESCULOSIDE	Flower				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
3	ALANINE	Leaf		7470.0	-1.1923060818343414	USDA's Ag Handbook 8 and sequelae)
20	ALPHA-BISABOLOL	Plant		90.0	-0.06989988186929946	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
20	ALPHA-BISABOLOL	Essential Oil				--
3	ALPHA-CEDRENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	ALPHA-CEDRENE	Essential Oil				--
2	ALPHA-HUMULENE	Plant		16.0	-0.6253709820933909	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
2	ALPHA-HUMULENE	Shoot Essent. Oil	6700.0	11800.0	0.818288975563984	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ALPHA-HUMULENE	Plant		16.0	-0.6253709820933909	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
2	ALPHA-HUMULENE	Essential Oil		31300.0	-0.1980459026032663	--
2	ALPHA-HUMULENE	Leaf Essent. Oil		5650.0	-0.5249878546134739	--
28	ALPHA-PINENE	Leaf Essent. Oil	3700.0	13000.0	-0.6816393866518402	--
28	ALPHA-PINENE	Essential Oil	300.0	18000.0	-0.4016792923021472	--
28	ALPHA-PINENE	Shoot Essent. Oil	4600.0	7200.0	-0.46017762363908365	--
28	ALPHA-PINENE	Plant	2.0	180.0	-0.35409162350207984	--
3	ALPHA-SELINENE	Plant				--
13	ALPHA-TERPINENE	Leaf Essent. Oil		600.0	-0.698535055754104	--
13	ALPHA-TERPINENE	Shoot Essent. Oil		300.0	-0.9635029368323148	--
13	ALPHA-TERPINENE	Essential Oil		400.0	-0.766355883758014	--
13	ALPHA-TERPINENE	Plant	1.0	10.0	-0.48651836720139585	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
23	ALPHA-TERPINEOL	Shoot Essent. Oil		9600.0	1.3997084244475302	--
23	ALPHA-TERPINEOL	Leaf Essent. Oil	5650.0	7000.0	-0.7232141414984458	--
23	ALPHA-TERPINEOL	Essential Oil	6700.0	23900.0	0.2853731010302511	--
23	ALPHA-TERPINEOL	Plant	36.0	239.0	-0.2954805858988341	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
6	ALPHA-THUJONE	Plant				--
36	ANETHOLE	Essential Oil				--
36	ANETHOLE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
30	ANTHOCYANINS	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
101	APIGENIN	Plant				Stitt, Paul. Why George should eat broccoli.
14	ARGININE	Leaf		6620.0	-0.863646085190795	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Leaf	27.0	2000.0	-0.25834558219747267	--
3	ASPARTIC-ACID	Leaf		16960.0	-0.6357584583519637	USDA's Ag Handbook 8 and sequelae)
24	BENZALDEHYDE	Essential Oil		700.0	-0.6916241263883828	--
9	BENZYL-ACETATE	Leaf	17.0	163.0		--
9	BENZYL-ALCOHOL	Essential Oil				--
6	BETA-BISABOLENE	Shoot Essent. Oil		2600.0	1.0	--
6	BETA-BISABOLENE	Plant		6.5	-0.6328717716575204	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
6	BETA-BISABOLENE	Plant		6.5	-0.6328717716575204	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
53	BETA-CAROTENE	Leaf	4.0	333.0	0.31225803965642646	--
3	BETA-DAMASCENONE	Shoot Essent. Oil		1700.0		--
5	BETA-ELEMENE	Shoot Essent. Oil	4900.0	81600.0	1.4135003647459183	--
5	BETA-ELEMENE	Plant		12.0	-0.43128205717178886	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
5	BETA-ELEMENE	Essential Oil		16100.0	-0.9072086362241611	--
13	BETA-EUDESOL	Shoot Essent. Oil		3000.0	-1.0	--
13	BETA-IONONE	Shoot Essent. Oil		1600.0		--
2	BETA-MYRCENE	Essential Oil				--
2	BETA-MYRCENE	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
13	BETA-PINENE	Plant	3.0	160.0	-0.2627291295986692	--
13	BETA-PINENE	Essential Oil	5500.0	16000.0	-0.37511613864599774	--
13	BETA-PINENE	Shoot Essent. Oil	8200.0	9300.0	1.1230823071409943	--
13	BETA-PINENE	Leaf Essent. Oil	7300.0	2000.0	-0.9267593911993299	--
2	BETA-SANTALENE	Essential Oil				--
3	BETA-SELINENE	Plant				--
47	BETA-SITOSTEROL	Flower		1051.0	-0.8129550273341427	--
47	BETA-SITOSTEROL	Seed		527.0	-0.4287473793704042	--
47	BETA-SITOSTEROL	Stem		845.0	0.24120717836480773	--
47	BETA-SITOSTEROL	Sprout Seedling		230.0	-1.0962039963725738	--
47	BETA-SITOSTEROL	Root		408.0	-0.2659856197797314	--
47	BETA-SITOSTEROL	Leaf	790.0	1705.0	-0.15694051781455237	--
5	BETA-THUJONE	Plant				--
35	BORNEOL	Plant		3.0	-0.6682251883160577	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
35	BORNEOL	Plant		3.0	-0.6682251883160577	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
35	BORNEOL	Shoot Essent. Oil		1200.0	-0.7871147430282157	--
35	BORNEOL	Essential Oil		1200.0	-0.9038697263749434	--
4	BORON	Plant	18.0	31.0	-0.49409835011398384	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	BUTYRIC-ACID	Essential Oil				--
102	CAFFEIC-ACID	Leaf		19100.0	1.933822416683755	--
102	CAFFEIC-ACID	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	CALCIUM	Leaf	3200.0	23700.0	0.35959605461482125	--
2	CAMPESTEROL	Leaf		90.0	-0.37970082853926607	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	Plant	0.0	400.0	0.07840780100655714	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
9	CAMPHENE	Essential Oil		900.0	-0.666936586225485	--
9	CAMPHENE	Shoot Essent. Oil		500.0	-0.8123496252026575	--
9	CAMPHENE	Leaf Essent. Oil	300.0	900.0	-0.8450720560025149	--
41	CAMPHOR	Plant	2.0	31.0	-0.6381982068688171	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
41	CAMPHOR	Shoot Essent. Oil		4500.0	-1.0	--
41	CAMPHOR	Leaf Essent. Oil		10000.0	-0.7795867266952746	--
41	CAMPHOR	Essential Oil	2100.0	7200.0	-1.1929832436449845	--
1	CAPROIC-ACID	Essential Oil				--
37	CARVACROL	Plant				--
37	CARVACROL	Shoot Essent. Oil		6800.0	-0.7212680383887677	--
19	CARVONE	Shoot Essent. Oil		16000.0	-0.6664162971220318	--
19	CARVONE	Plant				Stitt, Paul. Why George should eat broccoli.
31	CARYOPHYLLENE	Plant	18.0	3196.0	3.6582342247473596	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
8	CARYOPHYLLENE-OXIDE	Essential Oil				--
3	CHAVICOL	Plant		3.0	-0.7071067811865478	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CHAVICOL	Plant		3.0	-0.7071067811865478	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
1	CIS-3-HEXENOL	Plant				--
1	CIS-ANETHOLE	Plant				--
3	CIS-OCIMENE	Plant	3.0	252.0	0.3293039459859423	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
53	CITRAL	Plant	560.0	7000.0	-0.02464955373944787	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
53	CITRAL	Essential Oil		700000.0	1.6605158904602735	--
15	CITRONELLOL	Plant		0.2	-0.7485510521834722	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
15	CITRONELLOL	Plant		0.2	-0.7485510521834722	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
15	CITRONELLOL	Essential Oil	80000.0	241900.0	1.7378875538585694	--
1	COPAENE	Essential Oil		1400.0	-0.8722389827292886	--
12	COPPER	Leaf		14.0	-0.3758429396758034	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Leaf		1590.0	-1.117533773233964	USDA's Ag Handbook 8 and sequelae)
1	D-GLUCOSE	Seed				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	DELTA-CADINENE	Plant		5.0	-0.5302645800660227	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
9	DELTA-CADINENE	Shoot Essent. Oil	2600.0	66600.0	1.0	--
9	DELTA-CADINENE	Plant		5.0	-0.5302645800660227	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
2	ELEMOL	Essential Oil				--
10	ERIODICTYOL	Leaf				--
30	ESCULETIN	Leaf				Plantes Medicinales et Phytotherapie, 24: 193.
29	ESCULIN	Leaf				--
12	ESTRAGOLE	Shoot Essent. Oil				--
12	ESTRAGOLE	Flower Essent. Oil				--
12	ESTRAGOLE	Leaf				--
12	ESTRAGOLE	Leaf Essent. Oil	7500.0	900000.0	1.0365049414283074	--
12	ESTRAGOLE	Essential Oil	300.0	872100.0	0.7157318089649249	--
12	ESTRAGOLE	Plant	35.0	9000.0	-0.6985578481954239	--
76	EUGENOL	Plant		14.0	-0.6109651056315911	--
76	EUGENOL	Leaf	14.0	8575.0	0.19127842889726174	--
76	EUGENOL	Leaf Essent. Oil	51200.0	270000.0	-0.30638029986732646	--
76	EUGENOL	Shoot Essent. Oil	5700.0	26700.0		--
76	EUGENOL	Essential Oil	300.0	857500.0	1.714831728119204	--
5	EUGENOL-METHYL-ETHER	Plant	375.0	2500.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
5	EUGENOL-METHYL-ETHER	Leaf Essent. Oil		378000.0	1.0	--
5	EUGENOL-METHYL-ETHER	Shoot Essent. Oil	2000.0	8200.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	EUGENOL-METHYL-ETHER	Essential Oil		26800.0	0.04687758407501351	--
17	FARNESOL	Plant				--
6	FENCHONE	Plant		30.0	-0.4714639178202843	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
6	FENCHONE	Shoot Essent. Oil		12900.0		--
6	FENCHONE	Plant		30.0	-0.4714639178202843	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
1	FENCHYL-ALCOHOL	Plant		7.0		Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
1	FENCHYL-ALCOHOL	Plant		7.0		Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
15	FIBER	Leaf	145790.0	154290.0	-0.08959174734898213	--
6	FURFURAL	Plant				--
11	GAMMA-TERPINENE	Plant	1.0	10.0	-0.529894116080377	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
11	GAMMA-TERPINENE	Leaf Essent. Oil	2000.0	14900.0	-0.5298384190634473	--
13	GERANIAL	Leaf Essent. Oil		2000.0	-1.0	--
13	GERANIAL	Plant		5.0	-0.8456994799530183	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
13	GERANIAL	Shoot Essent. Oil		2100.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	GERANIAL	Plant		5.0	-0.8456994799530183	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
35	GERANIOL	Shoot Essent. Oil	1100.0	3900.0		--
35	GERANIOL	Plant		3.0	-0.44914525148490203	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
35	GERANIOL	Essential Oil		100000.0	0.4011550201900289	--
35	GERANIOL	Plant	1.0	1000.0	-0.27782019166414046	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
5	GERANYL-ACETATE	Leaf	11.0	84.0	-0.6125829219693176	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	GERMACRENE-D	Leaf Essent. Oil		11100.0	-0.6029429234203527	--
2	GERMACRENE-D	Plant		35.0	-0.3920642941811044	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
2	GERMACRENE-D	Plant		35.0	-0.3920642941811044	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
2	GERMACRENE-D	Shoot Essent. Oil	13600.0	36200.0	-1.277169083049922	--
8	GLUTAMIC-ACID	Leaf		15650.0	-1.204342874821576	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Leaf		6900.0	-0.9337878392435092	USDA's Ag Handbook 8 and sequelae)
7	HISTIDINE	Leaf		2870.0	-1.2578053845584176	USDA's Ag Handbook 8 and sequelae)
2	HUMULENE	Essential Oil				--
6	IRON	Leaf	48.0	478.0	0.2910263957706515	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	ISOCARYOPHYLLENE	Plant				--
16	ISOEUGENOL	Plant	8.0	95.0		--
3	ISOLEUCINE	Leaf		5880.0	-1.5930724298495411	USDA's Ag Handbook 8 and sequelae)
22	ISOQUERCITRIN	Leaf				--
75	KAEMPFEROL	Leaf				--
2	LEUCINE	Leaf		10780.0	-0.8829732628709146	USDA's Ag Handbook 8 and sequelae)
60	LIMONENE	Leaf Essent. Oil	1000.0	2900.0	-0.6654054021595263	--
60	LIMONENE	Shoot Essent. Oil		7100.0	-0.8611251092370704	--
60	LIMONENE	Essential Oil	3100.0	77600.0	-0.2904096059080155	--
60	LIMONENE	Plant		20.0	-0.4735121569427471	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
60	LIMONENE	Plant		20.0	-0.4735121569427471	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
53	LINALOOL	Essential Oil	10.0	630000.0	2.241643366280597	--
53	LINALOOL	Leaf Essent. Oil	14000.0	593000.0	3.0590616231923224	--
53	LINALOOL	Leaf				--
53	LINALOOL	Shoot Essent. Oil	49500.0	177100.0	0.31770222209079224	--
53	LINALOOL	Flower Essent. Oil		416000.0		--
53	LINALOOL	Plant	5.0	8730.0	0.5167217771424646	--
7	LINALYL-ACETATE	Plant	15.0	240.0	-0.4626561664258833	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
27	LINOLEIC-ACID	Seed	53240.0	145200.0	0.32625439958347807	--
78	LUTEOLIN	Plant				Stitt, Paul. Why George should eat broccoli.
4	LYSINE	Leaf		6180.0	-1.5226687945679613	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
65	MAGNESIUM	Leaf	4100.0	4340.0	0.08273170384575512	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Leaf		32.0	-0.40668721364691	USDA's Ag Handbook 8 and sequelae)
63	MENTHOL	Plant	4.0	32.0	-0.6155897076601419	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
63	MENTHOL	Essential Oil				--
30	MENTHONE	Plant		1.0	-0.5150338999298373	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
30	MENTHONE	Essential Oil				--
15	METHIONINE	Leaf		2020.0	-0.8867496430331252	USDA's Ag Handbook 8 and sequelae)
6	METHYL-CHAVICOL	Plant	238.0	8780.0	0.8345194128913528	--
5	METHYL-CINNAMATE	Plant	1.0	2800.0		--
20	METHYL-EUGENOL	Plant	13.0	1400.0	0.9663911485584473	--
15	METHYL-ISOEUGENOL	Plant				--
3	MUCILAGE	Seed Oil				--
3	MUCILAGE	Seed		93000.0	-0.6574211348716195	--
22	MYRCENE	Plant	2.0	80.0	-0.3882101667097782	--
22	MYRCENE	Leaf Essent. Oil	1000.0	8600.0	-0.3333131413210551	--
22	MYRCENE	Shoot Essent. Oil	2600.0	18000.0	-0.40439631676723714	--
22	MYRCENE	Essential Oil		1300.0	-0.4270241436912702	--
22	MYRCENE	Leaf	2.0	80.0	-0.14380734093480035	--
4	NERAL	Leaf Essent. Oil		1000.0	-1.0	--
4	NERAL	Shoot Essent. Oil		2000.0		--
4	NERAL	Plant		5.0	-0.761795742829685	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	NEROL	Essential Oil		30000.0	-0.586310919290707	--
10	NEROL	Plant	2.5	300.0	-0.24843221504215574	--
10	NEROL	Shoot Essent. Oil		700.0		--
1	NEROLIDIOL	Plant		5.0		Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
1	NEROLIDIOL	Essential Oil				--
11	NEROLIDOL	Plant		5.0	-0.9701964434020749	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
11	NEROLIDOL	Essential Oil				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
11	NEROLIDOL	Shoot Essent. Oil		4700.0		--
39	NIACIN	Leaf	8.0	69.0	-0.34667165096151836	--
6	O-METHOXYCINNAMALDEHYDE	Plant				--
2	OCIMENE	Leaf Essent. Oil		1000.0	-1.0	--
2	OCIMENE	Essential Oil				--
64	OLEANOLIC-ACID	Flower		1300.0	-0.6357280607585934	--
64	OLEANOLIC-ACID	Leaf		1700.0	0.19433717473155765	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
18	OLEIC-ACID	Seed	26620.0	36300.0	-0.6806928979897604	--
4	ORIENTIN	Plant				Stitt, Paul. Why George should eat broccoli.
25	P-COUMARIC-ACID	Leaf		760.0	-0.150429773215176	--
16	P-CYMENE	Tissue Culture				--
16	P-CYMENE	Leaf Essent. Oil		300.0	-0.7742826608460229	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
16	P-CYMENE	Shoot Essent. Oil		300.0	-1.3971068639782231	--
16	P-CYMENE	Essential Oil		2400.0	-0.6135781849583403	--
16	P-CYMENE	Plant	1.0	16.0	-0.4160900695992076	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	P-METHOXYCINNAMALDEHYDE	Flower Essent. Oil		40000.0		--
2	P-METHOXYCINNAMALDEHYDE	Essential Oil	1000.0	4000.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
13	PALMITIC-ACID	Seed		16940.0	-0.350073884010438	--
4	PHELLANDRENE	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.
4	PHOSPHORUS	Leaf	380.0	5235.0	0.04848893148250219	--
2	PHYTOSTEROLS	Leaf		1060.0	-0.47114523357690347	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Leaf	4290.0	42900.0	0.5544414923455223	--
6	PROPIONIC-ACID	Essential Oil				--
176	QUERCETIN	Leaf				--
15	RIBOFLAVIN	Leaf	3.0	4.0	-0.15911158075734227	--
57	ROSMARINIC-ACID	Tissue Culture				--
57	ROSMARINIC-ACID	Shoot		1300.0	-0.7944986102342779	--
57	ROSMARINIC-ACID	Root				--
57	ROSMARINIC-ACID	Plant	1000.0	19000.0	-0.5696167858896972	--
87	RUTIN	Leaf				--
5	SABINENE	Leaf Essent. Oil	2000.0	3900.0	-0.5747006667443069	--
5	SABINENE	Essential Oil		2500.0	-0.5783801713741707	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SABINENE	Shoot Essent. Oil	3100.0	3500.0	-0.7938224515162632	--
5	SABINENE	Plant		8.0	-0.4483811260005284	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
29	SAFROLE	Plant	60.0	400.0	0.8497176108557255	--
1	SERINE	Leaf		5610.0	-1.1663710510980512	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Plant	294.0	386.0	-0.28271053121447925	--
1	SODIUM	Leaf	120.0	890.0	-0.4892147785607772	--
8	STEARIC-ACID	Seed		485.0	-0.5548671871852875	--
12	STIGMASTEROL	Leaf		180.0	1.194435720377775	--
12	STIGMASTEROL	Plant				Stitt, Paul. Why George should eat broccoli.
7	SUCCINIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
35	TANNIN	Tissue Culture				--
35	TANNIN	Plant		50000.0	-0.4910667725786353	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
23	TERPINEN-4-OL	Shoot Essent. Oil				--
23	TERPINEN-4-OL	Essential Oil	1700.0	6800.0	-0.5510718514991831	--
23	TERPINEN-4-OL	Plant	2.0	120.0	-0.2292113627770182	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
23	TERPINEN-4-OL	Leaf Essent. Oil	24300.0	25700.0	-0.33110328936252614	--
9	TERPINOLENE	Leaf Essent. Oil		2600.0	-0.536195561668254	--
9	TERPINOLENE	Shoot Essent. Oil		400.0	-1.0	--
9	TERPINOLENE	Essential Oil		1000.0	-0.38815736668905965	--
9	TERPINOLENE	Plant	1.0	22.0	-0.5437369745244341	--
31	THIAMIN	Leaf	1.0	6.0	-0.4802995853174522	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	THREONINE	Leaf		5880.0	-1.3106860880630495	USDA's Ag Handbook 8 and sequelae)
71	THYMOL	Shoot Essent. Oil		1000.0	-0.6751908682417391	--
71	THYMOL	Essential Oil				--
71	THYMOL	Leaf		1415.0	0.34997957884319775	--
8	TRANS-ANETHOLE	Shoot Essent. Oil		6300.0	-1.0	--
8	TRANS-ANETHOLE	Essential Oil		7400.0	-1.2051729948329528	Hussain, R.A., et. al. 1990. Sweetening Agents of Plant Origin: Phenylpropanoid Constituents of Seven Sweet-Tasting Plants. Econ. Bot. 44 2: 174-182. Program Collab. Res. Pharm. Sci. Coll. Pharmacy Univ. Illinois at Chicago IL 60680, USA.
8	TRANS-ANETHOLE	Plant	11.0	74.0	-0.4532712115799402	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
29	TRYPTOPHAN	Leaf		2210.0	-0.8173232064374916	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Leaf		4320.0	-1.0238955187502574	USDA's Ag Handbook 8 and sequelae)
89	URSOLIC-ACID	Sprout Seedling		63.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
89	URSOLIC-ACID	Leaf				--
89	URSOLIC-ACID	Flower		1740.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
89	URSOLIC-ACID	Stem		845.0	0.7881966335751702	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
9	VALERIC-ACID	Essential Oil				--
3	VALINE	Leaf		7170.0	-1.5483541431568815	USDA's Ag Handbook 8 and sequelae)
12	VICENIN-2	Leaf				--
3	XANTHOMICROL	Leaf		350.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	XYLOSE	Seed				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
77	ZINC	Leaf	5.0	6.0	-0.48994598747101986	USDA's Ag Handbook 8 and sequelae)