

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Ocimum basilicum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(-)-CEDRENOL	Shoot Essent. Oil				--
0	(-)-LINALOOL	Plant	30.0	300.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	(-)-LINALOOL	Leaf Essent. Oil		20000.0		--
0	(3)-BETA-FARNESENE	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.
0	(E)-ALPHA-BERGAMOTENE	Plant		75.0		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.
0	(E)-ALPHA-BERGAMOTTENE	Plant		75.0		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.
0	(E)-BETA-FARNESENE	Plant		7.0	-0.7155078185625302	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.
0	(E)-BETA-OCIMENE	Plant	1.0	435.0	2.2262230322078222	--
0	(Z)-BETA-FARNESENE	Plant		16.0	0.9506541513652698	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.
0	(Z)-BETA-FARNESENE	Plant		16.0	0.9506541513652698	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.
0	1,8-CINEOL	Leaf				--
0	1,8-CINEOL	Flower Essent. Oil				--
0	1,8-CINEOL	Shoot Essent. Oil		54400.0	-0.5387121307211548	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	1,8-CINEOL	Leaf Essent. Oil	5000.0	100000.0	-0.19227395568102532	--
0	1,8-CINEOL	Essential Oil	33700.0	77600.0	-0.1052841403773199	--
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.
0	1-EPI-BICYCLOSQUIPHELLANDRENE	Essential Oil				--
0	1-EPI-BICYCLOSQUIPHELLANDRENE	Leaf Essent. Oil				--
0	1-EPI-BICYCLOSQUIPHELLANDRENE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	1-OCTEN-3-OL	Plant				--
0	2-EPI-ALPHA-CEDRENE	Plant				--
0	2-ETHYL-FURAN	Shoot Essent. Oil		100.0		--
0	3-METHYL-BUTAN-1-AL	Shoot Essent. Oil		100.0		--
0	3-OCTANONE	Plant				--
0	3-OCTANONE	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	5,10(15)-CADINEN-4-OL	Plant		1.0		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.
0	5,10(15)-CADINEN-4-OL	Plant		1.0		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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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)
0	ALPHA-AMORPHENE	Plant				--
0	ALPHA-AMORPHENE	Essential Oil				--
0	ALPHA-BERGAMOTENE	Essential Oil				--
0	ALPHA-BERGAMOTENE	Plant		75.0		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.
0	ALPHA-BISABOLENE	Shoot Essent. Oil		36000.0		--
0	ALPHA-BISABOLENE	Plant		90.0	1.4102204808154215	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	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				--
0	ALPHA-BULNESENE	Shoot Essent. Oil		2600.0		--
0	ALPHA-BULNESENE	Plant		6.5		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
0	ALPHA-BULNESENE	Plant		6.5		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.
0	ALPHA-CADINENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	ALPHA-CARYOPHYLLENE	Shoot Essent. Oil				--
3	ALPHA-CEDRENE	Essential Oil				--
3	ALPHA-CEDRENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	ALPHA-COPAENE	Plant		0.8	-0.5360924635311449	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.
0	ALPHA-COPAENE	Plant	0.8	20.0	-0.43857493345252835	--
0	ALPHA-COPAENE	Shoot Essent. Oil	300.0	3600.0	-1.0	--
0	ALPHA-CUBEBENE	Plant				--
0	ALPHA-CUBEBENE	Shoot Essent. Oil		2800.0		--
0	ALPHA-CUBEBENE	Essential Oil		1200.0	-0.7318222037940755	--
0	ALPHA-FARNESENE	Plant				--
0	ALPHA-FENCHENE	Essential Oil				--
0	ALPHA-FENCHONE	Shoot Essent. Oil		1300.0		--
0	ALPHA-FENCHYL-ALCOHOL	Shoot Essent. Oil		2800.0		--
0	ALPHA-GUAIENE	Shoot Essent. Oil		1300.0		--
0	ALPHA-GUAIENE	Plant				--
2	ALPHA-HUMULENE	Shoot Essent. Oil	6700.0	11800.0	0.818288975563984	--
2	ALPHA-HUMULENE	Essential Oil		31300.0	-0.1980459026032663	--

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	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	Leaf Essent. Oil		5650.0	-0.5249878546134739	--
0	ALPHA-MUUROLENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	ALPHA-P-DIMETHYL-STYRENE	Plant				--
28	ALPHA-PINENE	Plant	2.0	180.0	-0.35409162350207984	--
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	Leaf Essent. Oil	3700.0	13000.0	-0.6816393866518402	--
0	ALPHA-SANTALENE	Essential Oil				--
3	ALPHA-SELINENE	Plant				--
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.
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	--
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.
23	ALPHA-TERPINEOL	Shoot Essent. Oil		9600.0	1.3997084244475302	--
23	ALPHA-TERPINEOL	Leaf Essent. Oil	5650.0	7000.0	-0.7232141414984458	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Essential Oil	6700.0	23900.0	0.2853731010302511	--
0	ALPHA-TERPINEOL ACETATE	Leaf Essent. Oil		45100.0	0.3967976763338348	--
0	ALPHA-TERPINYL-ACETATE	Plant				--
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				--
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	--
0	ASH	Plant	20000.0	153000.0	0.5778841665437804	--
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	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.
6	BETA-BISABOLENE	Shoot Essent. Oil		2600.0	1.0	--
0	BETA-BOURBONENE	Plant				--
0	BETA-BOURBONENE	Shoot Essent. Oil		3800.0	-1.183040531089796	--
0	BETA-CADINENE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-CADINOL	Essential Oil				--
53	BETA-CAROTENE	Leaf	4.0	333.0	0.31225803965642646	--
0	BETA-CARYOPHYLLENE	Shoot Essent. Oil	2300.0	13900.0	-1.1154717314686748	--
0	BETA-CARYOPHYLLENE	Essential Oil	6800.0	37700.0	-0.423331277266507	--
0	BETA-CARYOPHYLLENE	Leaf Essent. Oil		70000.0	0.01096743109356414	--
0	BETA-CARYOPHYLLENE	Plant		35.0	-0.7823361395544459	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.
0	BETA-CARYOPHYLLENE	Plant		35.0	-0.7823361395544459	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.
0	BETA-CEDRENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	BETA-CUBEBENE	Shoot Essent. Oil		3700.0		--
0	BETA-CUBEBENE	Plant				--
0	BETA-CYMENE	Essential Oil		3600.0	1.0	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.
0	BETA-CYMENE	Plant	5.0	36.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	BETA-DAMASCENONE	Shoot Essent. Oil		1700.0		--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	BETA-ELEMENE	Shoot Essent. Oil	4900.0	81600.0	1.4135003647459183	--
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	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	BETA-MYRCENE	Essential Oil				--
0	BETA-OCIMENE	Plant	1.0	435.0		--
0	BETA-OCIMENE	Shoot Essent. Oil				--
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	--
13	BETA-PINENE	Plant	3.0	160.0	-0.2627291295986692	--
2	BETA-SANTALENE	Essential Oil				--
3	BETA-SELINENE	Plant				--
47	BETA-SITOSTEROL	Stem		845.0	0.24120717836480773	--
47	BETA-SITOSTEROL	Seed		527.0	-0.4287473793704042	--
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	--
47	BETA-SITOSTEROL	Flower		1051.0	-0.8129550273341427	--
0	BETA-TERPINENE	Leaf Essent. Oil		28000.0		--
5	BETA-THUJONE	Plant				--
0	BETAPELEMENE	Plant		12.0		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.



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	--
0	BORNEOL-ACETATE	Plant	90.0	900.0		--
0	BORNEOL-ACETATE	Leaf Essent. Oil	10000.0	14400.0	-0.46886953625320477	--
0	BORNEOL-ACETATE	Essential Oil	5200.0	90000.0	0.2007529553084246	--
0	BORNEOL-ACETATE	Shoot Essent. Oil		4700.0	-1.0	--
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	Tissue Culture				--
102	CAFFEIC-ACID	Leaf		19100.0	1.933822416683755	--
0	CAFFEIC-ACID-N-BUTYL-ESTER	Leaf		252.0		--
0	CALAMENE	Plant				--
0	CALAMENENE	Shoot Essent. Oil		600.0		--
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	Essential Oil		900.0	-0.666936586225485	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	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				--
0	CARBOHYDRATE	Leaf	70000.0	652000.0	0.15153471586389045	--
0	CARBOHYDRATES	Leaf	70000.0	610000.0	-0.014709687051073339	--
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.
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
0	CHAVICOL-METHYL-ESTER	Essential Oil		22400.0		--
0	CHAVICOL-METHYL-ESTER	Shoot Essent. Oil		667500.0		--
0	CHAVICOL-METHYL-ETHER	Plant	500.0	5658.0		--
0	CINNAMIC-ACID-METHYL-ESTER	Leaf				--
0	CINNAMIC-ACID-METHYL-ESTER	Leaf Essent. Oil	45200.0	538000.0		--
0	CINNAMIC-ACID-METHYL-ESTER	Essential Oil				--
1	CIS-3-HEXENOL	Plant				--
0	CIS-ALLO-OCIMENE	Plant				--
1	CIS-ANETHOLE	Plant				--
0	CIS-CINNAMIC-ACID-METHYL-ESTER	Shoot Essent. Oil		14500.0		--
0	CIS-CINNAMIC-ACID-METHYL-ESTER	Flower Essent. Oil				--
0	CIS-CINNAMIC-ACID-METHYL-ESTER	Plant	67.0	900.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	CIS-GERANYL-ACETONE	Shoot Essent. Oil		1400.0		--
0	CIS-LIMONENE	Essential Oil		93300.0		--
0	CIS-LIMONENE	Plant	30.0	933.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	CIS-LINALOOL-OXIDE	Essential Oil		800.0		--
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.
0	CIS-SABINENE-HYDRATE	Plant				--
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	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	CITRONELLOL	Essential Oil	80000.0	241900.0	1.7378875538585694	--
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.
1	COPAENE	Essential Oil		1400.0	-0.8722389827292886	--
12	COPPER	Leaf		14.0	-0.3758429396758034	USDA's Ag Handbook 8 and sequelae)
0	CYCLOHEXANOL	Essential Oil				--
0	CYCLOHEXANONE	Essential Oil				--
0	CYCLOSATIVENE	Plant				--
2	CYSTINE	Leaf		1590.0	-1.117533773233964	USDA's Ag Handbook 8 and sequelae)
0	D-ARABINOSE	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.
0	D-GALACTOSE	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.
0	D-GALACTURONIC-ACID	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.
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.
0	D-LINALOOL	Plant	125.0	1375.0	-0.38805231936457235	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	D-MANNOSE	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.
0	D-MANNURONIC-ACID	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.
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	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	--
0	DELTA-GUAIENE	Plant				--
2	ELEMOL	Essential Oil				--
0	EO	Shoot				--
0	EO	Plant		2500.0	-0.5501330222038597	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.
0	EO	Plant		2500.0	-0.5501330222038597	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.
10	ERIODICTYOL	Leaf				--
0	ERIODICTYOL-7-O-BETA-D-GLUCOSIDE	Leaf				--
0	ERIODICTYOL-7-O-GLUCOSIDE	Leaf				Plantes Medicinales et Phytotherapie, 24: 193.
30	ESCULETIN	Leaf				Plantes Medicinales et Phytotherapie, 24: 193.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
29	ESCULIN	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	--
12	ESTRAGOLE	Shoot Essent. Oil				--
12	ESTRAGOLE	Flower Essent. Oil				--
12	ESTRAGOLE	Leaf				--
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	Leaf Essent. Oil		378000.0	1.0	--
5	EUGENOL-METHYL-ETHER	Shoot Essent. Oil	2000.0	8200.0		--
5	EUGENOL-METHYL-ETHER	Essential Oil		26800.0	0.04687758407501351	--
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.
17	FARNESOL	Plant				--
0	FAT	Seed		242000.0	-0.12319080878817229	--
0	FAT	Leaf	12000.0	89000.0	0.6483756218635724	--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
0	FENCHYL-ACETATE	Plant	1.0	60.0		--
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	--
0	FLAVONOIDS	Plant				--
6	FURFURAL	Plant				--
0	GAMMA-CADINENE	Leaf Essent. Oil		22800.0	1.411528302781677	--
0	GAMMA-CADINENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	GAMMA-CADINENE	Essential Oil				--
0	GAMMA-ELEMENE	Plant		15.0	-0.35322200627257305	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.
0	GAMMA-ELEMENE	Shoot Essent. Oil	5800.0	16200.0	1.0	--
0	GAMMA-ELEMENE	Plant		15.0	-0.35322200627257305	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.
0	GAMMA-GUAIENE	Shoot Essent. Oil		42600.0		--
0	GAMMA-GURJUNENE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GAMMA-MUUROLENE	Essential Oil				--
0	GAMMA-MUUROLENE	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
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	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	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	Leaf Essent. Oil		2000.0	-1.0	--
13	GERANIAL	Shoot Essent. Oil		2100.0		--
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	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.
35	GERANIOL	Shoot Essent. Oil	1100.0	3900.0		--
35	GERANIOL	Essential Oil		100000.0	0.4011550201900289	--
0	GERANIOL-ACETATE	Essential Oil				--
0	GERANIOL-ACETATE	Leaf Essent. Oil		5000.0	-1.0	--
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.



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GERMACRENE-A	Shoot Essent. Oil		1500.0		--
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	--
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.
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)
0	HEX-CIS-2-EN-1-OL-BUTYRATE	Shoot Essent. Oil		500.0		--
0	HEX-CIS-3-EN-1-OL-ACETATE	Essential Oil		500.0		--
0	HEX-CIS-3-EN-1-OL-ACETATE	Shoot Essent. Oil				--
0	HEXAHYDROFARNESYL-ACETONE	Shoot Essent. Oil		4400.0		--
0	HEXAN-1-AL	Shoot Essent. Oil				--
7	HISTIDINE	Leaf		2870.0	-1.2578053845584176	USDA's Ag Handbook 8 and sequelae)
2	HUMULENE	Essential Oil				--
0	HUMULENE-EPOXIDE	Plant		0.2		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.
0	HUMULENE-EPOXIDE	Plant		0.2		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.
0	HYDROXY-BENZOIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
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		--
0	ISOEUGENOL-METHYL-ETHER	Plant				Stitt, Paul. Why George should eat broccoli.
3	ISOLEUCINE	Leaf		5880.0	-1.5930724298495411	USDA's Ag Handbook 8 and sequelae)
22	ISOQUERCITRIN	Leaf				--
0	JUVOCIMENE-I	Plant	0.007	0.05		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	JUVOCIMENE-I	Essential Oil		5.0		--
0	JUVOCIMENE-II	Plant	0.007	0.05		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	JUVOCIMENE-II	Essential Oil		5.0		--
75	KAEMPFEROL	Leaf				--
0	KAEMPFEROL-3-O-BETA-D-RUTINOSIDE	Leaf				--
0	KAEMPFEROL-GLYCOSIDE	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	KILOCALORIES	Plant	430.0	3280.0	-0.019226817903195786	--
0	L-RHAMNOSE	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.
0	LEDENE	Plant				--
2	LEUCINE	Leaf		10780.0	-0.8829732628709146	USDA's Ag Handbook 8 and sequelae)
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	Leaf Essent. Oil	1000.0	2900.0	-0.6654054021595263	--
60	LIMONENE	Essential Oil	3100.0	77600.0	-0.2904096059080155	--
60	LIMONENE	Shoot Essent. Oil		7100.0	-0.8611251092370704	--
0	LINALOL	Plant	30.0	300.0	-0.36439344091845893	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	LINALOL	Plant	5.0	8730.0	1.541392799837111	--
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	--
53	LINALOOL	Essential Oil	10.0	630000.0	2.241643366280597	--
53	LINALOOL	Leaf Essent. Oil	14000.0	593000.0	3.0590616231923224	--
53	LINALOOL	Leaf				--
0	LINALOOL-ACETATE	Essential Oil				--
0	LINALOOL-ACETATE	Shoot Essent. Oil		2400.0		--
0	LINALOOL-ACETATE	Leaf Essent. Oil		6000.0	-1.108269136137348	--
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	--
0	LINOLENIC-ACID	Seed	50820.0	121000.0	1.5324980081440946	--
78	LUTEOLIN	Plant				Stitt, Paul. Why George should eat broccoli.
4	LYSINE	Leaf		6180.0	-1.5226687945679613	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Leaf	4100.0	4340.0	0.08273170384575512	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
0	METHYL-THYMOL	Plant		0.2	-0.9999999999999998	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.
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	--
0	MYRCENOL	Essential Oil				--
4	NERAL	Leaf Essent. Oil		1000.0	-1.0	--
4	NERAL	Shoot Essent. Oil		2000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
10	NEROL	Plant	2.5	300.0	-0.24843221504215574	--
10	NEROL	Shoot Essent. Oil		700.0		--
10	NEROL	Essential Oil		30000.0	-0.586310919290707	--
0	NEROL-ACETATE	Shoot Essent. Oil		2500.0		--
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	Essential Oil				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
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	Shoot Essent. Oil		4700.0		--
39	NIACIN	Leaf	8.0	69.0	-0.34667165096151836	--
0	NONANAL	Plant				--
6	O-METHOXYCINNAMALDEHYDE	Plant				--
2	OCIMENE	Leaf Essent. Oil		1000.0	-1.0	--
2	OCIMENE	Essential Oil				--
0	OCTAN-1-OL	Shoot Essent. Oil				--
0	OCTAN-1-OL-ACETATE	Shoot Essent. Oil		1700.0		--
0	OCTANOL	Plant				--
0	OCTEN-1-OL-ACETATE	Shoot Essent. Oil		300.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	--
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.
0	P-METHOXYBENZALDEHYDE	Plant				--
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.
0	PHENYL-ETHYL-ALCOHOL	Plant	18.0	136.0	-0.5062572440365607	--
4	PHOSPHORUS	Leaf	380.0	5235.0	0.04848893148250219	--
2	PHYTOSTEROLS	Leaf		1060.0	-0.47114523357690347	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PLANTEOSE	Seed				--
0	POLYSACCHARIDE	Seed				--
14	POTASSIUM	Leaf	4290.0	42900.0	0.5544414923455223	--
0	PROLINE	Leaf		5880.0	-0.7770140055446013	USDA's Ag Handbook 8 and sequelae)
6	PROPIONIC-ACID	Essential Oil				--
0	PROTEIN	Leaf	33000.0	240000.0	0.28087283644332645	--
0	PROTEIN	Seed		214000.0	-0.17609627257566335	--
176	QUERCETIN	Leaf				--
0	QUERCETIN-3-O-DIGLUCOSIDE	Leaf				--
0	QUERCETIN-GLYCOSIDE	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
15	RIBOFLAVIN	Leaf	3.0	4.0	-0.15911158075734227	--
57	ROSMARINIC-ACID	Plant	1000.0	19000.0	-0.5696167858896972	--
57	ROSMARINIC-ACID	Shoot		1300.0	-0.7944986102342779	--
57	ROSMARINIC-ACID	Tissue Culture				--
57	ROSMARINIC-ACID	Root				--
87	RUTIN	Leaf				--
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.
5	SABINENE	Leaf Essent. Oil	2000.0	3900.0	-0.5747006667443069	--
5	SABINENE	Essential Oil		2500.0	-0.5783801713741707	--
5	SABINENE	Shoot Essent. Oil	3100.0	3500.0	-0.7938224515162632	--
29	SAFROLE	Plant	60.0	400.0	0.8497176108557255	--
0	SALICYLIC-ACID-2-BETA-D-GLUCOSIDE	Leaf				--
0	SAMBULENE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SAPONIN	Plant		50000.0	0.6036784588712457	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	SERINE	Leaf		5610.0	-1.1663710510980512	USDA's Ag Handbook 8 and sequelae)
0	SESQUITHUJENE	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SESQUITHUJENE	Plant				--
1	SODIUM	Leaf	120.0	890.0	-0.4892147785607772	--
1	SODIUM	Plant	294.0	386.0	-0.28271053121447925	--
0	SPATHULENOL	Shoot Essent. Oil		16700.0	1.0	--
8	STEARIC-ACID	Seed		485.0	-0.5548671871852875	--
12	STIGMASTEROL	Plant				Stitt, Paul. Why George should eat broccoli.
12	STIGMASTEROL	Leaf		180.0	1.194435720377775	--
7	SUCCINIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
0	SYRINGIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
0	SYRINGOYL-GLUCOSE	Leaf				--
0	T-CADINOL	Plant		0.5	-0.7318552362623783	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.
0	T-CADINOL	Shoot Essent. Oil		71400.0		--
0	T-CADINOL	Plant		0.5	-0.7318552362623783	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	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.
35	TANNIN	Tissue Culture				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TERPINEN-1-OL	Essential Oil				--
23	TERPINEN-4-OL	Essential Oil	1700.0	6800.0	-0.5510718514991831	--
23	TERPINEN-4-OL	Leaf Essent. Oil	24300.0	25700.0	-0.33110328936252614	--
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	Shoot Essent. Oil				--
0	TERPINENE	Leaf				--
9	TERPINOLENE	Leaf Essent. Oil		2600.0	-0.536195561668254	--
9	TERPINOLENE	Shoot Essent. Oil		400.0	-1.0	--
9	TERPINOLENE	Plant	1.0	22.0	-0.5437369745244341	--
9	TERPINOLENE	Essential Oil		1000.0	-0.38815736668905965	--
31	THIAMIN	Leaf	1.0	6.0	-0.4802995853174522	--
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	Leaf		1415.0	0.34997957884319775	--
71	THYMOL	Essential Oil				--
0	TRANS-ALLO-OCIMENE	Plant				--
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.
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRANS-CINNAMIC-ACID	Plant	350.0	7000.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	TRANS-CINNAMIC-ACID	Leaf Essent. Oil				--
0	TRANS-CINNAMIC-ACID-METHYL-ESTER	Plant	350.0	7000.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	TRANS-CINNAMIC-ACID-METHYL-ESTER	Shoot Essent. Oil		126600.0		--
0	TRANS-CINNAMIC-ACID-METHYL-ESTER	Leaf Essent. Oil		47300.0		--
0	TRANS-CINNAMIC-ACID-METHYL-ESTER	Flower Essent. Oil				--
0	TRANS-LINALOOL-OXIDE	Essential Oil		800.0		--
0	TRANS-OCIMENE	Essential Oil		16100.0	-1.0567716958245414	--
0	TRANS-OCIMENE	Plant	8.0	161.0	-0.42179956415038755	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	TRANS-SABINENE-HYDRATE	Essential Oil				--
0	TRANS-SABINENE-HYDRATE	Plant				--
0	TRICYCLEN	Essential Oil				--
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)
0	UNDECYLALDEHYDE	Plant		0.0		--
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.
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				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
89	URSOLIC-ACID	Flower		1740.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	URSOLIC-ACID-II	Stem		106.0		--
0	URSOLIC-ACID-II	Leaf	413.0	1144.0		--
0	URSOLIC-ACID-II	Sprout Seedling		63.0		--
0	URSOLIC-ACID-II	Flower		1274.0		--
9	VALERIC-ACID	Essential Oil				--
3	VALINE	Leaf		7170.0	-1.5483541431568815	USDA's Ag Handbook 8 and sequelae)
0	VANILLIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
12	VICENIN-2	Leaf				--
0	WATER	Leaf	771000.0	865000.0	0.28617957864078786	--
3	XANTHOMICROL	Leaf		350.0		--
0	XI-BULGARENE	Plant				--
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)