

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in *Ocimum basilicum***

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(-)-CEDRENOL	Shoot Essent. Oil	30	300		
0	(-)-LINALOOL	Plant	30	300		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	(3)-BETA-FARNESENE	Plant	7	7		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	75		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		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	7	-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	435	2.2262230322078222	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(Z)-BETA-FARNESENE	Plant	16	16	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	0.9506541513652698	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	Essential Oil	33700	77600	-0.1052841403773199	
0	1,8-CINEOL	Leaf Essent. Oil	5000	100000	-0.19227395568102532	
0	1,8-CINEOL	Shoot Essent. Oil	--	54400	-0.5387121307211548	
0	1,8-CINEOL	Flower Essent. Oil	--	--		
0	1,8-CINEOL	Leaf	--	--		
67	1,8-CINEOLE	Plant	135	135	-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	-0.5237695990512106	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	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	1-EPI-BICYCLOSQUIPHELLANDRENE	Leaf Essent. Oil	--	--		
0	1-EPI-BICYCLOSQUIPHELLANDRENE	Essential Oil	--	--		
0	1-OCTEN-3-OL	Plant	--	--		
0	2-EPI-ALPHA-CEDRENE	Plant	--	--		
0	2-ETHYL-FURAN	Shoot Essent. Oil	--	100		
0	3-METHYL-BUTAN-1-AL	Shoot Essent. Oil	--	100		
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	1		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		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	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	AESCULOSIDE	Flower	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
3	ALANINE	Leaf	7470	7470	-1.1923060818343414	USDA's Ag Handbook 8 and sequelae)
0	ALPHA-AMORPHENE	Plant	--	--		
0	ALPHA-AMORPHENE	Essential Oil	--	--		
0	ALPHA-BERGAMOTENE	Plant	75	75		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-BERGAMOTENE	Essential Oil	--	--		
0	ALPHA-BISABOLENE	Plant	90	90	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.
0	ALPHA-BISABOLENE	Shoot Essent. Oil	--	36000		
20	ALPHA-BISABOLOL	Essential Oil	--	--		
20	ALPHA-BISABOLOL	Plant	--	90	-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.
0	ALPHA-BULNESENE	Plant	6.5	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.

Activity 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-BULNESENE	Shoot Essent. Oil	--	2600		
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	Plant	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	ALPHA-CEDRENE	Essential Oil	--	--		
0	ALPHA-COPAENE	Plant	0.8	20	-0.43857493345252835	
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	Shoot Essent. Oil	300	3600	-1	
0	ALPHA-CUBEBENE	Plant	--	--		
0	ALPHA-CUBEBENE	Shoot Essent. Oil	--	2800		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-CUBEBENE	Essential Oil	--	1200	-0.7318222037940755	
0	ALPHA-FARNESENE	Plant	--	--		
0	ALPHA-FENCHENE	Essential Oil	--	--		
0	ALPHA-FENCHONE	Shoot Essent. Oil	--	1300		
0	ALPHA-FENCHYL-ALCOHOL	Shoot Essent. Oil	--	2800		
0	ALPHA-GUAIENE	Plant	--	--		
0	ALPHA-GUAIENE	Shoot Essent. Oil	--	1300		
2	ALPHA-HUMULENE	Plant	16	16	-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	-0.6253709820933909	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	-0.5249878546134739	
2	ALPHA-HUMULENE	Essential Oil	--	31300	-0.1980459026032663	
2	ALPHA-HUMULENE	Shoot Essent. Oil	6700	11800	0.818288975563984	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	180	-0.35409162350207984	
28	ALPHA-PINENE	Leaf Essent. Oil	3700	13000	-0.6816393866518402	
28	ALPHA-PINENE	Shoot Essent. Oil	4600	7200	-0.46017762363908365	
28	ALPHA-PINENE	Essential Oil	300	18000	-0.4016792923021472	
0	ALPHA-SANTALENE	Essential Oil	--	--		
3	ALPHA-SELINENE	Plant	--	--		
13	ALPHA-TERPINENE	Plant	1	10	-0.48651836720139585	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
13	ALPHA-TERPINENE	Essential Oil	--	400	-0.766355883758014	
13	ALPHA-TERPINENE	Shoot Essent. Oil	--	300	-0.9635029368323148	
13	ALPHA-TERPINENE	Leaf Essent. Oil	--	600	-0.698535055754104	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Plant	36	239	-0.2954805858988341	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
23	ALPHA-TERPINEOL	Essential Oil	6700	23900	0.2853731010302511	
23	ALPHA-TERPINEOL	Leaf Essent. Oil	5650	7000	-0.7232141414984458	
23	ALPHA-TERPINEOL	Shoot Essent. Oil	--	9600	1.3997084244475302	
0	ALPHA-TERPINEOL ACETATE	Leaf Essent. Oil	--	45100	0.3967976763338348	
0	ALPHA-TERPINYL-ACETATE	Plant	--	--		
6	ALPHA-THUJONE	Plant	--	--		
36	ANETHOLE	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
36	ANETHOLE	Essential Oil	--	--		
30	ANTHOCYANINS	Leaf	--	--		
101	APIGENIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
14	ARGININE	Leaf	6620	6620	-0.863646085190795	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Leaf	27	612	-0.25834558219747267	
0	ASH	Plant	20000	153000	0.5778841665437804	



Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ASPARTIC-ACID	Leaf	16960	16960	-0.6357584583519637	USDA's Ag Handbook 8 and sequelae)
24	BENZALDEHYDE	Essential Oil	--	700	-0.6916241263883828	
9	BENZYL-ACETATE	Leaf	17	163		
9	BENZYL-ALCOHOL	Essential Oil	--	--		
6	BETA-BISABOLENE	Plant	6.5	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	1	
0	BETA-BOURBONENE	Plant	--	--		
0	BETA-BOURBONENE	Shoot Essent. Oil	--	3800	-1.183040531089796	
0	BETA-CADINENE	Plant	--	--		
0	BETA-CADINOL	Essential Oil	--	--		
53	BETA-CAROTENE	Leaf	4	333	0.31225803965642646	
0	BETA-CARYOPHYLLENE	Plant	35	35	-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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-CARYOPHYLLENE	Plant	--	35	-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	Leaf Essent. Oil	--	70000	0.01096743109356414	
0	BETA-CARYOPHYLLENE	Essential Oil	6800	37700	-0.423331277266507	
0	BETA-CARYOPHYLLENE	Shoot Essent. Oil	2300	13900	-1.1154717314686748	
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	Plant	--	--		
0	BETA-CUBEBENE	Shoot Essent. Oil	--	3700		
0	BETA-CYMENE	Plant	5	36		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	BETA-CYMENE	Essential Oil	--	3600	1	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.
3	BETA-DAMASCENONE	Shoot Essent. Oil	--	1700		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	BETA-ELEMENE	Plant	12	12	-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	Shoot Essent. Oil	4900	81600	1.4135003647459183	
5	BETA-ELEMENE	Essential Oil	--	16100	-0.9072086362241611	
13	BETA-EUDES MOL	Shoot Essent. Oil	--	3000	-1	
13	BETA-IONONE	Shoot Essent. Oil	--	1600		
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	435		
0	BETA-OCIMENE	Shoot Essent. Oil	--	--		
13	BETA-PINENE	Plant	3	160	-0.2627291295986692	
13	BETA-PINENE	Leaf Essent. Oil	7300	2000	-0.9267593911993299	
13	BETA-PINENE	Shoot Essent. Oil	8200	9300	1.1230823071409943	
13	BETA-PINENE	Essential Oil	5500	16000	-0.37511613864599774	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	BETA-SANTALENE	Essential Oil	--	--		
3	BETA-SELINENE	Plant	--	--		
47	BETA-SITOSTEROL	Flower	1051	1051	-0.8129550273341427	
47	BETA-SITOSTEROL	Leaf	790	1705	-0.15694051781455237	
47	BETA-SITOSTEROL	Root	408	408	-0.2659856197797314	
47	BETA-SITOSTEROL	Sprout Seedling	230	230	-1.0962039963725738	
47	BETA-SITOSTEROL	Stem	230	845	0.24120717836480773	
47	BETA-SITOSTEROL	Seed	--	527	-0.4287473793704042	
0	BETA-TERPINENE	Leaf Essent. Oil	--	28000		
5	BETA-THUJONE	Plant	--	--		
0	BETAPELEMENE	Plant	12	12		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	3	-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	-0.6682251883160577	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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	BORNEOL	Essential Oil	--	1200	-0.9038697263749434	
35	BORNEOL	Shoot Essent. Oil	--	1200	-0.7871147430282157	
0	BORNEOL-ACETATE	Plant	90	900		
0	BORNEOL-ACETATE	Shoot Essent. Oil	90	900	-1	
0	BORNEOL-ACETATE	Essential Oil	5200	90000	0.2007529553084246	
0	BORNEOL-ACETATE	Leaf Essent. Oil	10000	14400	-0.46886953625320477	
4	BORON	Plant	18	31	-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	19000	19100	1.933822416683755	
102	CAFFEIC-ACID	Tissue Culture	--	--		
0	CAFFEIC-ACID-N-BUTYL-ESTER	Leaf	252	252		
0	CALAMENE	Plant	--	--		
0	CALAMENENE	Shoot Essent. Oil	--	600		
28	CALCIUM	Leaf	3200	22112	0.35959605461482125	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	CAMPESTEROL	Leaf	--	90	-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	--	400	0.07840780100655714	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
9	CAMPHENE	Leaf Essent. Oil	300	900	-0.8450720560025149	
9	CAMPHENE	Shoot Essent. Oil	--	500	-0.8123496252026575	
9	CAMPHENE	Essential Oil	--	900	-0.666936586225485	
41	CAMPHOR	Plant	2	31	-0.6381982068688171	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
41	CAMPHOR	Essential Oil	2100	7200	-1.1929832436449845	
41	CAMPHOR	Leaf Essent. Oil	--	10000	-0.7795867266952746	
41	CAMPHOR	Shoot Essent. Oil	--	4500	-1	
1	CAPROIC-ACID	Essential Oil	--	--		
0	CARBOHYDRATE	Leaf	70000	610000	0.15153471586389045	
0	CARBOHYDRATES	Leaf	70000	610000	-0.014709687051073339	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
37	CARVACROL	Shoot Essent. Oil	--	6800	-0.7212680383887677	
37	CARVACROL	Plant	--	--		
19	CARVONE	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
19	CARVONE	Shoot Essent. Oil	--	16000	-0.6664162971220318	
31	CARYOPHYLLENE	Plant	18	3196	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	3	-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	-0.7071067811865478	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.
0	CHAVICOL-METHYL-ESTER	Shoot Essent. Oil	--	667500		
0	CHAVICOL-METHYL-ESTER	Essential Oil	--	22400		
0	CHAVICOL-METHYL-ETHER	Plant	500	5658		
0	CINNAMIC-ACID-METHYL-ESTER	Essential Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CINNAMIC-ACID-METHYL-ESTER	Leaf Essent. Oil	45200	538000		
0	CINNAMIC-ACID-METHYL-ESTER	Leaf	--	--		
1	CIS-3-HEXENOL	Plant	--	--		
0	CIS-ALLO-OCIMENE	Plant	--	--		
1	CIS-ANETHOLE	Plant	--	--		
0	CIS-CINNAMIC-ACID-METHYL-ESTER	Plant	67	900		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	CIS-CINNAMIC-ACID-METHYL-ESTER	Flower Essent. Oil	--	--		
0	CIS-CINNAMIC-ACID-METHYL-ESTER	Shoot Essent. Oil	--	14500		
0	CIS-GERANYL-ACETONE	Shoot Essent. Oil	--	1400		
0	CIS-LIMONENE	Plant	30	933		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	CIS-LIMONENE	Essential Oil	--	93300		
0	CIS-LINALOOL-OXIDE	Essential Oil	--	800		



Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CIS-OCIMENE	Plant	3	252	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	7000	-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	1.6605158904602735	
15	CITRONELLOL	Plant	0.2	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	241900	1.7378875538585694	
1	COPAENE	Essential Oil	--	1400	-0.8722389827292886	
12	COPPER	Leaf	14	14	-0.3758429396758034	USDA's Ag Handbook 8 and sequelae)
0	CYCLOHEXANOL	Essential Oil	--	--		
0	CYCLOHEXANONE	Essential Oil	--	--		
0	CYCLOSATIVENE	Plant	--	--		
2	CYSTINE	Leaf	1590	1590	-1.117533773233964	USDA's Ag Handbook 8 and sequelae)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	1375	-0.38805231936457235	
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	5	-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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	DELTA-CADINENE	Plant	--	5	-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	66600	1	
0	DELTA-GUAIENE	Plant	--	--		
2	ELEMOL	Essential Oil	--	--		
0	EO	Plant	2500	2500	-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	-0.5501330222038597	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	Shoot	--	--		
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.
29	ESCULIN	Leaf	--	--		
12	ESTRAGOLE	Plant	35	9000	-0.6985578481954239	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	ESTRAGOLE	Essential Oil	300	872100	0.7157318089649249	
12	ESTRAGOLE	Leaf Essent. Oil	7500	900000	1.0365049414283074	
12	ESTRAGOLE	Leaf	--	--		
12	ESTRAGOLE	Flower Essent. Oil	--	--		
12	ESTRAGOLE	Shoot Essent. Oil	--	--		
76	EUGENOL	Leaf	14	8575	0.19127842889726174	
76	EUGENOL	Plant	--	14	-0.6109651056315911	
76	EUGENOL	Essential Oil	300	857500	1.714831728119204	
76	EUGENOL	Shoot Essent. Oil	5700	26700		
76	EUGENOL	Leaf Essent. Oil	51200	270000	-0.30638029986732646	
5	EUGENOL-METHYL-ETHER	Plant	375	2500		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
5	EUGENOL-METHYL-ETHER	Essential Oil	--	26800	0.04687758407501351	
5	EUGENOL-METHYL-ETHER	Shoot Essent. Oil	2000	8200		
5	EUGENOL-METHYL-ETHER	Leaf Essent. Oil	--	378000	1	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
17	FARNESOL	Plant	--	--		
0	FAT	Leaf	12000	43680	0.6483756218635724	
0	FAT	Seed	--	242000	-0.12319080878817229	
6	FENCHONE	Plant	30	30	-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	Plant	--	30	-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	FENCHYL-ACETATE	Plant	1	60		
1	FENCHYL-ALCOHOL	Plant	7	7		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		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	154290	-0.08959174734898213	
0	FLAVONOIDS	Plant	--	--		
6	FURFURAL	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	Leaf Essent. Oil	--	22800	1.411528302781677	
0	GAMMA-CADINENE	Essential Oil	--	--		
0	GAMMA-ELEMENE	Plant	15	15	-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	Plant	--	15	-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	16200	1	
0	GAMMA-GUAIENE	Shoot Essent. Oil	--	42600		
0	GAMMA-GURJUNENE	Plant	--	--		
0	GAMMA-MUUROLENE	Plant	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	GAMMA-MUUROLENE	Essential Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	GAMMA-TERPINENE	Plant	1	10	-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	14900	-0.5298384190634473	
13	GERANIAL	Plant	5	5	-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	-0.8456994799530183	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		
13	GERANIAL	Leaf Essent. Oil	--	2000	-1	
35	GERANIOL	Plant	1	1000	-0.27782019166414046	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
35	GERANIOL	Plant	--	3	-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	0.4011550201900289	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	GERANIOL	Shoot Essent. Oil	1100	3900		
0	GERANIOL-ACETATE	Essential Oil	--	--		
0	GERANIOL-ACETATE	Leaf Essent. Oil	--	5000	-1	
5	GERANYL-ACETATE	Leaf	11	84	-0.6125829219693176	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	GERMACRENE-A	Shoot Essent. Oil	--	1500		
2	GERMACRENE-D	Plant	35	35	-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	-0.3920642941811044	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	Leaf Essent. Oil	--	11100	-0.6029429234203527	
2	GERMACRENE-D	Shoot Essent. Oil	13600	36200	-1.277169083049922	
8	GLUTAMIC-ACID	Leaf	15650	15650	-1.204342874821576	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Leaf	6900	6900	-0.9337878392435092	USDA's Ag Handbook 8 and sequelae)



Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEX-CIS-2-EN-1-OL-BUTYRATE	Shoot Essent. Oil	--	500		
0	HEX-CIS-3-EN-1-OL-ACETATE	Shoot Essent. Oil	--	--		
0	HEX-CIS-3-EN-1-OL-ACETATE	Essential Oil	--	500		
0	HEXAHYDROFARNESYL-ACETONE	Shoot Essent. Oil	--	4400		
0	HEXAN-1-AL	Shoot Essent. Oil	--	--		
7	HISTIDINE	Leaf	2870	2870	-1.2578053845584176	USDA's Ag Handbook 8 and sequelae)
2	HUMULENE	Essential Oil	--	--		
0	HUMULENE-EPOXIDE	Plant	0.2	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	478	0.2910263957706515	
1	ISOCARYOPHYLLENE	Plant	--	--		
16	ISOEUGENOL	Plant	8	95		
0	ISOEUGENOL-METHYL-ETHER	Plant	--	--		Stitt, Paul. Why George should eat broccoli.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ISOLEUCINE	Leaf	5880	5880	-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	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		
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	3280	-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	10780	-0.8829732628709146	USDA's Ag Handbook 8 and sequelae)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Plant	20	20	-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	-0.4735121569427471	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	Essential Oil	3100	77600	-0.2904096059080155	
60	LIMONENE	Shoot Essent. Oil	--	7100	-0.8611251092370704	
60	LIMONENE	Leaf Essent. Oil	1000	2900	-0.6654054021595263	
0	LINALOL	Plant	5	8730	1.541392799837111	
0	LINALOL	Plant	30	300	-0.36439344091845893	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
53	LINALOOL	Plant	5	8730	0.5167217771424646	
53	LINALOOL	Leaf	--	--		
53	LINALOOL	Leaf Essent. Oil	14000	593000	3.0590616231923224	
53	LINALOOL	Essential Oil	10	630000	2.241643366280597	
53	LINALOOL	Flower Essent. Oil	--	416000		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	LINALOOL	Shoot Essent. Oil	49500	177100	0.31770222209079224	
0	LINALOOL-ACETATE	Essential Oil	--	--		
0	LINALOOL-ACETATE	Leaf Essent. Oil	--	6000	-1.108269136137348	
0	LINALOOL-ACETATE	Shoot Essent. Oil	--	2400		
7	LINALYL-ACETATE	Plant	15	240	-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	145200	0.32625439958347807	
0	LINOLENIC-ACID	Seed	50820	121000	1.5324980081440946	
78	LUTEOLIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
4	LYSINE	Leaf	6180	6180	-1.5226687945679613	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Leaf	4100	4340	0.08273170384575512	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Leaf	32	32	-0.40668721364691	USDA's Ag Handbook 8 and sequelae)
63	MENTHOL	Plant	4	32	-0.6155897076601419	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
63	MENTHOL	Essential Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	MENTHONE	Plant	1	1	-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	2020	-0.8867496430331252	USDA's Ag Handbook 8 and sequelae)
6	METHYL-CHAVICOL	Plant	238	8780	0.8345194128913528	
5	METHYL-CINNAMATE	Plant	1	2800		
20	METHYL-EUGENOL	Plant	13	1400	0.9663911485584473	
15	METHYL-ISOEUGENOL	Plant	--	--		
0	METHYL-THYMOL	Plant	0.2	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	93000	93000	-0.6574211348716195	
3	MUCILAGE	Seed Oil	--	--		
22	MYRCENE	Leaf	2	80	-0.14380734093480035	
22	MYRCENE	Plant	2	80	-0.3882101667097782	
22	MYRCENE	Essential Oil	--	1300	-0.4270241436912702	
22	MYRCENE	Shoot Essent. Oil	2600	18000	-0.40439631676723714	
22	MYRCENE	Leaf Essent. Oil	1000	8600	-0.3333131413210551	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	MYRCENOL	Essential Oil	--	--		
4	NERAL	Plant	5	5	-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.
4	NERAL	Shoot Essent. Oil	--	2000		
4	NERAL	Leaf Essent. Oil	--	1000	-1	
10	NEROL	Plant	2.5	300	-0.24843221504215574	
10	NEROL	Essential Oil	--	30000	-0.586310919290707	
10	NEROL	Shoot Essent. Oil	--	700		
0	NEROL-ACETATE	Shoot Essent. Oil	--	2500		
1	NEROLIDIOL	Plant	--	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.
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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	NEROLIDOL	Plant	5	5	-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		
39	NIACIN	Leaf	8	69	-0.34667165096151836	
0	NONANAL	Plant	--	--		
6	O-METHOXYCINNAMALDEHYDE	Plant	--	--		
2	OCIMENE	Essential Oil	--	--		
2	OCIMENE	Leaf Essent. Oil	--	1000	-1	
0	OCTAN-1-OL	Shoot Essent. Oil	--	--		
0	OCTAN-1-OL-ACETATE	Shoot Essent. Oil	--	1700		
0	OCTANOL	Plant	--	--		
0	OCTEN-1-OL-ACETATE	Shoot Essent. Oil	--	300		
64	OLEANOLIC-ACID	Flower	1300	1300	-0.6357280607585934	
64	OLEANOLIC-ACID	Leaf	--	1700	0.19433717473155765	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	OLEIC-ACID	Seed	26620	36300	-0.6806928979897604	
4	ORIENTIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
25	P-COUMARIC-ACID	Leaf	760	760	-0.150429773215176	
16	P-CYMENE	Plant	1	16	-0.4160900695992076	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
16	P-CYMENE	Essential Oil	--	2400	-0.6135781849583403	
16	P-CYMENE	Shoot Essent. Oil	--	300	-1.3971068639782231	
16	P-CYMENE	Leaf Essent. Oil	--	300	-0.7742826608460229	
16	P-CYMENE	Tissue Culture	--	--		
0	P-METHOXYBENZALDEHYDE	Plant	--	--		
2	P-METHOXYCINNAMALDEHYDE	Essential Oil	1000	4000		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		
13	PALMITIC-ACID	Seed	--	16940	-0.350073884010438	



Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PELLANDRENE	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	136	-0.5062572440365607	
4	PHOSPHORUS	Leaf	380	5168	0.04848893148250219	
2	PHYTOSTEROLS	Leaf	1060	1060	-0.47114523357690347	USDA's Ag Handbook 8 and sequelae)
0	PLANTEOSE	Seed	--	--		
0	POLYSACCHARIDE	Seed	--	--		
14	POTASSIUM	Leaf	4290	42900	0.5544414923455223	
0	PROLINE	Leaf	5880	5880	-0.7770140055446013	USDA's Ag Handbook 8 and sequelae)
6	PROPIONIC-ACID	Essential Oil	--	--		
0	PROTEIN	Leaf	33000	169850	0.28087283644332645	
0	PROTEIN	Seed	--	214000	-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	4	-0.15911158075734227	
57	ROSMARINIC-ACID	Plant	1000	19000	-0.5696167858896972	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
57	ROSMARINIC-ACID	Root	--	--		
57	ROSMARINIC-ACID	Tissue Culture	--	--		
57	ROSMARINIC-ACID	Shoot	--	1300	-0.7944986102342779	
87	RUTIN	Leaf	--	--		
5	SABINENE	Plant	8	8	-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	Shoot Essent. Oil	3100	3500	-0.7938224515162632	
5	SABINENE	Essential Oil	--	2500	-0.5783801713741707	
5	SABINENE	Leaf Essent. Oil	2000	3900	-0.5747006667443069	
29	SAFROLE	Plant	60	400	0.8497176108557255	
0	SALICYLIC-ACID-2-BETA-D-GLUCOSIDE	Leaf	--	--		
0	SAMBULENE	Leaf	--	--		
0	SAPONIN	Plant	--	50000	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	5610	-1.1663710510980512	USDA's Ag Handbook 8 and sequelae)
0	SESQUITHUJENE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SESQUITHUJENE	Leaf	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	SODIUM	Plant	294	386	-0.28271053121447925	
1	SODIUM	Leaf	120	890	-0.4892147785607772	
0	SPATHULENOL	Shoot Essent. Oil	--	16700	1	
8	STEARIC-ACID	Seed	--	485	-0.5548671871852875	
12	STIGMASTEROL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
12	STIGMASTEROL	Leaf	--	180	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	0.5	-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	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		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	TANNIN	Tissue Culture	--	--		
35	TANNIN	Plant	--	50000	-0.4910667725786353	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TERPINEN-1-OL	Essential Oil	--	--		
23	TERPINEN-4-OL	Plant	2	120	-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	25700	-0.33110328936252614	
23	TERPINEN-4-OL	Essential Oil	1700	6800	-0.5510718514991831	
23	TERPINEN-4-OL	Shoot Essent. Oil	--	--		
0	TERPINENE	Leaf	--	--		
9	TERPINOLENE	Plant	1	22	-0.5437369745244341	
9	TERPINOLENE	Essential Oil	--	1000	-0.38815736668905965	
9	TERPINOLENE	Shoot Essent. Oil	--	400	-1	
9	TERPINOLENE	Leaf Essent. Oil	--	2600	-0.536195561668254	
31	THIAMIN	Leaf	1	6	-0.4802995853174522	
4	THREONINE	Leaf	5880	5880	-1.3106860880630495	USDA's Ag Handbook 8 and sequelae)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
71	THYMOL	Leaf	1415	1415	0.34997957884319775	
71	THYMOL	Essential Oil	--	--		
71	THYMOL	Shoot Essent. Oil	--	1000	-0.6751908682417391	
0	TRANS-ALLO-OCIMENE	Plant	--	--		
8	TRANS-ANETHOLE	Plant	11	74	-0.4532712115799402	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
8	TRANS-ANETHOLE	Essential Oil	--	7400	-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	Shoot Essent. Oil	--	6300	-1	
0	TRANS-CINNAMIC-ACID	Plant	350	7000		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	7000		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRANS-CINNAMIC-ACID-METHYL-ESTER	Flower Essent. Oil	--	--		
0	TRANS-CINNAMIC-ACID-METHYL-ESTER	Leaf Essent. Oil	--	47300		
0	TRANS-CINNAMIC-ACID-METHYL-ESTER	Shoot Essent. Oil	--	126600		
0	TRANS-LINALOOL-OXIDE	Essential Oil	--	800		
0	TRANS-OCIMENE	Plant	8	161	-0.42179956415038755	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	TRANS-OCIMENE	Essential Oil	--	16100	-1.0567716958245414	
0	TRANS-SABINENE-HYDRATE	Plant	--	--		
0	TRANS-SABINENE-HYDRATE	Essential Oil	--	--		
0	TRICYCLENENE	Essential Oil	--	--		
29	TRYPTOPHAN	Leaf	2210	2210	-0.8173232064374916	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Leaf	4320	4320	-1.0238955187502574	USDA's Ag Handbook 8 and sequelae)
0	UNDECYLALDEHYDE	Plant	--	--		
89	URSOLIC-ACID	Flower	--	1740		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
89	URSOLIC-ACID	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
89	URSOLIC-ACID	Sprout Seedling	--	63		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
89	URSOLIC-ACID	Stem	--	845	0.7881966335751702	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	URSOLIC-ACID-II	Flower	1740	1274		
0	URSOLIC-ACID-II	Sprout Seedling	63	63		
0	URSOLIC-ACID-II	Leaf	413	1143		
0	URSOLIC-ACID-II	Stem	845	106		
9	VALERIC-ACID	Essential Oil	--	--		
3	VALINE	Leaf	7170	7170	-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	865000	0.28617957864078786	
3	XANTHOMICROL	Leaf	350	350		
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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Leaf	5	6	-0.48994598747101986	USDA's Ag Handbook 8 and sequelae)