

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Citrus limon

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Fruit Essent. Oil	512000.0	980000.0	1.267182025507371	Jim Duke's personal files.
0	WATER	Fruit	850000.0	894000.0	0.5366602504029064	--
0	CARBOHYDRATES	Fruit	111000.0	863000.0	0.42843384218109976	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
60	LIMONENE	Pericarp Essent. Oil	512000.0	774000.0		--
60	LIMONENE	Leaf Essent. Oil	284000.0	754000.0	2.654734671831716	--
19	D-LIMONENE	Pericarp Essent. Oil		694400.0		Jim Duke's personal files.
19	D-LIMONENE	Leaf Essent. Oil	99000.0	667000.0	1.0	Jim Duke's personal files.
0	FAT	Seed	300000.0	400000.0	0.7090517076840918	--
13	GERANIAL	Leaf Essent. Oil	3000.0	233000.0	1.0	Jim Duke's personal files.
4	NERAL	Leaf Essent. Oil	4000.0	172700.0	1.0	Jim Duke's personal files.
23	ALPHA-TERPINEOL	Leaf Essent. Oil	4000.0	125000.0	1.6609342933031976	Jim Duke's personal files.
0	ISOPULEGOLE	Leaf Essent. Oil	18000.0	114000.0	1.0	Jim Duke's personal files.
71	THYMOL	Pericarp Essent. Oil	53000.0	111000.0		Jim Duke's personal files.
53	LINALOOL	Pericarp Essent. Oil	7000.0	111000.0		Jim Duke's personal files.
0	PROTEIN	Fruit	10000.0	111000.0	0.020127724197141796	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	LINALOL	Pericarp Essent. Oil	7000.0	110000.0		--
20	CITRONELLAL	Leaf Essent. Oil	25000.0	89000.0	-1.0	Jim Duke's personal files.
11	GAMMA-TERPINENE	Pericarp Essent. Oil	12000.0	83200.0		Jim Duke's personal files.
0	LINALOL	Leaf Essent. Oil	17000.0	81000.0	-1.0	--
53	LINALOOL	Leaf Essent. Oil	18000.0	81000.0	-0.1829511978385886	Jim Duke's personal files.
10	NEROL	Leaf Essent. Oil	8000.0	76000.0	-1.0	Jim Duke's personal files.
23	ALPHA-TERPINEOL	Pericarp Essent. Oil	4000.0	73000.0		Jim Duke's personal files.
31	HESPERIDIN	Pericarp	20500.0	68800.0	0.9831655478788394	Jim Duke's personal files.
3	BETA-PHELLANDRENE	Pericarp Essent. Oil		65900.0		Jim Duke's personal files.
35	GERANIOL	Leaf Essent. Oil	13000.0	60200.0	-0.6318280565838599	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	CITRIC-ACID	Fruit		59500.0	0.3223249898875974	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
67	1,8-CINEOLE	Leaf Essent. Oil	11000.0	50000.0	-0.6565847961763176	Jim Duke's personal files.
15	FIBER	Fruit	17000.0	47000.0	-0.8934118438004772	--
11	GAMMA-TERPINENE	Leaf Essent. Oil	3000.0	44000.0	-0.14954213307604686	Jim Duke's personal files.
3	ISOPULEGOL	Leaf Essent. Oil		40000.0	-1.0	Jim Duke's personal files.
23	TERPINEN-4-OL	Leaf Essent. Oil	29600.0	31000.0	-0.2861319108695746	Jim Duke's personal files.
0	NERYL-ACETONE	Leaf Essent. Oil		28000.0		Jim Duke's personal files.
0	FAT	Fruit		28000.0	-0.42739034203512904	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ASH	Fruit		28000.0	-0.7422580290226741	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	LINALOOL-ACETATE	Leaf Essent. Oil		22000.0	0.409907762680937	Jim Duke's personal files.
16	P-CYMENE	Leaf Essent. Oil	4100.0	20000.0	-0.4814765484301064	Jim Duke's personal files.
13	GERANIAL	Pericarp Essent. Oil		17600.0		Jim Duke's personal files.
8	CARYOPHYLENE-OXIDE	Leaf Essent. Oil	0.8	15600.0	1.322705019532784	Jim Duke's personal files.
14	POTASSIUM	Fruit		14700.0	-0.28457604716385243	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
15	CITRONELLOL	Leaf Essent. Oil	3700.0	14000.0	-0.9724708703903254	Jim Duke's personal files.
0	NONAN-1-OL	Leaf Essent. Oil		14000.0		Jim Duke's personal files.
28	ALPHA-PINENE	Pericarp Essent. Oil	5000.0	14000.0		Jim Duke's personal files.
23	TERPINEN-4-OL	Pericarp Essent. Oil	1000.0	11000.0		Jim Duke's personal files.
71	THYMOL	Leaf Essent. Oil		11000.0	1.0	Jim Duke's personal files.
5	SABINENE	Leaf Essent. Oil		10000.0	-0.4720621937310914	Jim Duke's personal files.
22	MYRCENE	Leaf Essent. Oil	5500.0	10000.0	-0.32786228882013646	Jim Duke's personal files.
0	NEROL-ACETATE	Leaf Essent. Oil		9000.0	1.0	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GERANIOL-ACETATE	Leaf Essent. Oil		8100.0	1.0	Jim Duke's personal files.
6	BETA-BISABOLENE	Leaf Essent. Oil		8000.0	-0.45226094922261545	Jim Duke's personal files.
60	LIMONENE	Essential Oil	2796.0	8000.0	-0.6910184174131357	--
0	BETA-BERGAMOTENE	Leaf Essent. Oil		8000.0		Jim Duke's personal files.
0	TRANS-BETA-OCIMENE	Leaf Essent. Oil		7500.0	0.027166291246208063	Jim Duke's personal files.
28	ALPHA-PINENE	Fruit Essent. Oil		7000.0	-0.7563238037559155	Jim Duke's personal files.
13	BETA-PINENE	Fruit Essent. Oil		7000.0	-0.6959144908685471	Jim Duke's personal files.
13	BETA-PINENE	Leaf Essent. Oil		7000.0	-0.6862264928828316	Jim Duke's personal files.
0	METHYL-HEPTENONE	Leaf Essent. Oil		6000.0		--
0	EO	Pt	2000.0	6000.0	1.0	--
53	CITRAL	Fruit Essent. Oil		6000.0		Jim Duke's personal files.
112	ASCORBIC-ACID	Fruit	5208.0	5566.0	0.061588136058018224	--
1	NARIRUTIN	Pericarp		3600.0	1.0	Jim Duke's personal files.
0	BETA-CARYOPHYLLENE	Leaf Essent. Oil	100.0	3500.0	-0.38515655776504104	Jim Duke's personal files.
3	BETA-PHELLANDRENE	Leaf Essent. Oil		3300.0	-0.6449387865926303	Jim Duke's personal files.
28	CALCIUM	Fruit	700.0	3227.0	-0.14521436633635507	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
60	LIMONENE	Petiole		3090.0		--
0	KILOCALORIES	Fruit		2640.0	-1.5500422105520721	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	EO	Pericarp		2600.0	-1.1594356213080714	--
28	ALPHA-PINENE	Leaf Essent. Oil	500.0	2000.0	-0.7421534872468563	Jim Duke's personal files.
4	PHOSPHORUS	Fruit	100.0	1979.0	-0.3757244939645237	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
11	GAMMA-TERPINENE	Essential Oil	290.0	1400.0	-0.8030057127991168	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
22	MYRCENE	Essential Oil	65.0	1270.0	-0.42741750795730477	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Essential Oil	40.0	1270.0	-0.7021862831547401	--
2	BERGAMOTTIN	Essential Oil		649.0		Jim Duke's personal files.
0	5-GERANOXY-7-METHOXYCOUMARIN	Essential Oil	603.0	630.0		--
13	BETA-PINENE	Petiole		595.0		--
11	GAMMA-TERPINENE	Petiole		535.0		--
28	ALPHA-PINENE	Essential Oil	40.0	500.0	-0.5556700287286983	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	SODIUM	Fruit		470.0	-0.13938121430353298	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	BETA-BISABOLENE	Essential Oil	23.0	400.0	-1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	8-GERAN-OXYSORALEN	Essential Oil		387.0		Jim Duke's personal files.
5	GERANYL-ACETATE	Essential Oil	12.0	310.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	NEROL-ACETATE	Essential Oil	16.0	310.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
53	CITRAL	Essential Oil	250.0	300.0	-0.7878308981922465	--
0	LIMETTIN	Essential Oil		295.0		--
0	ALPHA-BERGAMOTENE	Essential Oil		250.0	-1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	GERANIAL	Essential Oil	42.0	236.0	1.0	--
6	OXYPEUCEDANIN	Essential Oil		207.0		--
5	SABINENE	Essential Oil	50.0	175.0	-0.5948547061177535	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
22	SCOPARONE	Bark		162.5		Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6,7-DIMETHOXYCOUMARIN	Bark		162.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
4	NERAL	Essential Oil	27.0	130.0	1.0	--
2	PHYTOSTEROLS	Fruit		120.0	-1.0633155337611349	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
9	TERPINOLENE	Essential Oil	14.0	120.0	-0.39476259711357375	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
25	P-COUMARIC-ACID	Fruit	6.0	102.0	-0.20876433550573723	--
5	SABINENE	Petiole		95.0		--
28	ALPHA-PINENE	Petiole		90.0		--
47	BETA-SITOSTEROL	Fruit		80.0	-0.6891305552196143	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
3	BETA-PHELLANDRENE	Essential Oil		80.0	-1.254423892232491	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	GERANIOL	Petiole		80.0		--
22	MYRCENE	Petiole		75.0		--
6	IRON	Fruit	23.0	72.0	-0.24188358819633976	--
13	ALPHA-TERPINENE	Essential Oil		70.0	-0.7756123212065256	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	OXYPEUCEDANIN-HYDRATE	Essential Oil		64.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
4	NERAL	Petiole		60.0		--
13	GERANIAL	Petiole		60.0		--
23	ALPHA-TERPINEOL	Essential Oil	6.0	50.0	-0.7708262254085273	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
62	CAFFEINE	Flower		50.0	0.21997067253202995	--
9	CAMPHENE	Essential Oil	2.0	50.0	-0.6924881415674572	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
10	NEROL	Petiole		41.0		--
0	ALPHA-THUJENE	Essential Oil	16.0	40.0	-0.40032749008251933	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
61	FERULIC-ACID	Fruit	14.0	40.0	-0.3813850356982369	--
0	BERGAMOTENE	Essential Oil	16.0	40.0		--
23	TERPINEN-4-OL	Essential Oil	1.0	40.0	-0.6167580897613645	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
102	CAFFEIC-ACID	Fruit	21.0	35.0	-0.3324337022744836	--
23	ALPHA-TERPINEOL	Petiole		32.0		--
16	P-CYMENE	Essential Oil	12.0	31.0	-0.6331366260891432	--
53	LINALOOL	Essential Oil	8.0	30.0	-0.583010006932893	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LINALOL	Essential Oil	8.0	30.0	-1.0	--
0	NONANAL	Essential Oil	9.0	30.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	BYAKANGELICIN	Essential Oil		29.0		--
31	CARYOPHYLLENE	Essential Oil	11.0	28.0	-0.7680967243064245	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	TERPINOLENE	Petiole		26.0		--
6	BETA-BISABOLENE	Petiole		25.0		--
23	TERPINEN-4-OL	Petiole		22.0		--
0	ALPHA-THUJENE	Petiole		20.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	NERYL-FORMATE	Essential Oil		20.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	CAMPESTEROL	Fruit		20.0	-0.48957181191497545	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
0	DECANAL	Essential Oil	6.0	20.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	CITRONELLYL-ACETATE	Plant	4.0	20.0	-0.6827759635190207	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	ALPHA-PHELLANDRENE	Essential Oil		20.0	-0.5926545907300464	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ICHANGIN-4-BETA-D-GLUCOSIDE	Pericarp		19.6		Jim Duke's personal files.
39	NIACIN	Fruit	10.0	19.0	-0.5574314089774005	--
9	SINAPIC-ACID	Fruit	14.0	18.0	0.6272500481871801	--
0	OCTANOL	Essential Oil	10.0	15.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	NERYL-ACETATE	Petiole		13.0		--
0	BETA-CARYOPHYLLENE	Petiole		13.0		--
53	LINALOOL	Petiole		12.0		--
5	GERANYL-ACETATE	Petiole		12.0		--
2	ALPHA-HUMULENE	Essential Oil		10.0	-0.48105436900291004	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
26	BERGAPTEN	Essential Oil		10.0		Jim Duke's personal files.
12	STIGMASTEROL	Fruit		10.0	-1.0338847831220805	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TETRAHYDROGERANIOL	Essential Oil		10.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BETA-HUMULENE	Essential Oil		10.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	DODECANAL	Essential Oil		10.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	NOMILINIC-ACID-4-BETA-D-GLUCOSIDE	Pericarp		9.8		Jim Duke's personal files.
3	BETA-PHELLANDRENE	Petiole		8.0		--
13	ALPHA-TERPINENE	Petiole		8.0		--
16	P-CYMENE	Petiole		7.5		--
0	NONAN-1-AL	Essential Oil	3.0	7.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	THIAMIN	Fruit	4.0	6.0	0.08541669233982067	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	(E)-BETA-OCIMENE	Petiole		6.0		--
34	DIOSMIN	Fruit		5.0		--
1	DECYL-ACETATE	Plant		5.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	HEPTANAL	Essential Oil		4.0	-1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	(Z)-BETA-OCIMENE	Petiole		3.5		--
9	CAMPHENE	Petiole		3.0		--
15	RIBOFLAVIN	Fruit	2.0	3.0	-0.4303249009534089	--
20	CITRONELLAL	Petiole		3.0		--
11	ALPHA-PHELLANDRENE	Petiole		2.0		--
87	RUTIN	Fruit	1.0	2.0	-0.6531383244068485	--
0	OCTANOL	Petiole		2.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	OCTANAL	Petiole		2.0		--
0	1-HEXEN-3-OL	Petiole		2.0		--
53	BETA-CAROTENE	Fruit	0.0	2.0	-0.14693466516508752	--
0	NONANAL	Petiole		1.5		--
0	DECANAL	Petiole		1.5		--
2	ALPHA-HUMULENE	Petiole		1.5		--
0	BETA-SINENSAL	Petiole		1.5		--
15	LUTEIN	Fruit	0.12	1.2	-0.731124155967682	--
3	NOOTKATONE	Essential Oil		1.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	CITRONELLYL-ACETATE	Petiole		1.0		--
0	ERIOCITRIN	Fruit		1.0		Jim Duke's personal files.
8	DELTA-3-CARENE	Petiole		1.0		--
2	2-NONENAL	Petiole		1.0		--
0	ALPHA-TERPINYL-ACETATE	Petiole		0.1		--
0	NONANOL	Petiole		0.0		--
0	2-DODECENAL	Petiole		0.0		--
7	SALICYLATES	Fruit		0.0	-0.3367420403588193	--
2	DODECANAL	Petiole		0.0		--
0	ALPHA-COPAENE	Petiole		0.0		--
1	CARVEOL	Petiole		0.0		--
3	NOOTKATONE	Petiole		0.0		--
0	ALPHA-SINENSAL	Petiole		0.0		--
11	TYRAMINE	Leaf				--
0	5,7-DIMETHOXYCOUMARIN	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	PONCIRIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GAMMA-SITOSTEROL	Plant				--
12	NARINGIN	Leaf				Jim Duke's personal files.
0	ERIOCITRIN	Leaf				Jim Duke's personal files.
5	OCTANOIC-ACID	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LUTEOLIN-7-O-BETA-RUTINOSIDE	Leaf				--
9	TERPINOLENE	Pericarp Essent. Oil				Jim Duke's personal files.
0	BYAKANGELICOL	Fruit Essent. Oil				Jim Duke's personal files.
24	PECTIN	Exocarp				Jim Duke's personal files.
0	CITRUSIN-F	Pericarp				Jim Duke's personal files.
0	NOMILIN-17-O-BETA-D-GLUCOPYRANOSIDE	Seed				Jim Duke's personal files.
0	LIMOCITROL-3-O-(5-ALPHA-GLUCOSYL-3	Plant				--
2	RHOIFOLIN	Leaf				Jim Duke's personal files.
4	CADINENE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA,ALPHA-P-TRIMETHYLBENZYL-ALCOHOL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	3',4',5-TRIHYDROXY-FLAVONONE-7-O-BETA-D-RHAMNOSYL	Plant				--
25	IMPERATORIN	Fruit				--
0	ALPHA-BERGAMOTENE	Petiole				--
0	ISORHOIFOLIN	Leaf				Jim Duke's personal files.
5	ZEAXANTHIN	Leaf				--
0	7-RHAMNO-GLUCOSYL-DIOSMETIN	Flower				--
2	GERANYL-FORMATE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	NOBILETIN	Pericarp				Jim Duke's personal files.
0	DEACETYL-NOMILIN	Seed				Jim Duke's personal files.
0	HERACLENOL	Fruit Essent. Oil				Jim Duke's personal files.
0	TRIDECANAL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	4-(3-METHYL-2-BUTENOXY)-ACETOPHENONE	Pericarp				--
9	CAMPHENE	Leaf Essent. Oil				Jim Duke's personal files.
22	MYRCENE	Pericarp Essent. Oil				Jim Duke's personal files.
3	DIPHENYLAMINE	Plant				Jim Duke's personal files.
0	OCTAN-1-AL	Pericarp				Jim Duke's personal files.
78	LUTEOLIN	Flower				--
9	TERPINOLENE	Leaf Essent. Oil				Jim Duke's personal files.
5	BYAKANGELICIN	Fruit Essent. Oil				Jim Duke's personal files.
1	PABULENOL	Fruit Essent. Oil				Jim Duke's personal files.
0	ALPHA-TERPINYL-PROPIONATE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LIMOCITROL-3-O-(5-ALPHA-GLUCOSYL-3-HYDROXY-3-METHYL-GLUTARATE-(1,2)-BETA-GLUCOSIDE)	Pericarp				Jim Duke's personal files.
0	CITROPTEN	Fruit Essent. Oil				Jim Duke's personal files.
2	NOMILIN	Seed				Jim Duke's personal files.
0	LIMOCITROL	Pericarp				Jim Duke's personal files.
0	8-GERANYLOXYPORALEN	Fruit Essent. Oil				Jim Duke's personal files.
0	BYAKANGELICOL	Essential Oil				--
0	4',5,7-TRIHYDROXY-FLAVONE-8-O-BETA-D-RHAMNOSYL-GLUCOSIDE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-CUBEBENE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	3',4',5'-TRIHYDROXY-FLAVONE-7-O-BETA-D-RHAMNOSYL	Plant				--
3	HEXANOL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
15	OSTHOL	Root				Jim Duke's personal files.
13	DIOSMETIN	Plant				--
0	ISORHAMNETIN-3-ARABINOGLUCOSIDE	Plant				--
28	ALPHA-PINENE	Pericarp				Jim Duke's personal files.
0	XYLOSYL-VITEXIN	Flower				--
0	7-PENTAHYDROXY-2',3',5,5'-PENTAHYDROXY-FLAVANONE-7-(6-O-ALPHA-L-RHAMNOSYL-BETA-D-GLUCOSIDE	Pericarp				--
3	GERANYL-BUTYRATE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	D-GALACTURONIC-ACID	Fruit				--
2	HERACLENIN	Fruit Essent. Oil				Jim Duke's personal files.
0	NARINGOSIDE	Fruit				--
0	TRANS-LIMONENE-1,2-OXIDE	Essential Oil				Jim Duke's personal files.
0	4',7-DIHYDROXY-3'-METHOXY-FLAVONONE-8-O-BETA-D-GLUCOSYL-RHAMNOSIDE	Pericarp				Jim Duke's personal files.
11	ISORHAMNETIN	Flower				--
0	PHLORIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
22	MYRCENE	Pericarp				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
34	DIOSMIN	Leaf				Jim Duke's personal files.
2	OCIMENE	Leaf Essent. Oil				Jim Duke's personal files.
23	ALPHA-TERPINEOL	Pericarp				Jim Duke's personal files.
0	LIMOCITRIN-3-O-(5-ALPHA-GLUCOSYL-3-HYDROXY-3-METHYL-GLUTARATE-(1,2)-BETA-GLUCOSIDE)	Pericarp				Jim Duke's personal files.
15	CITRONELLOL	Pericarp Essent. Oil				Jim Duke's personal files.
0	LIMOCITRIN-3-O-(5-ALPHA-GLUCOSYL-3	Plant				--
0	8-GERANYL-OXY-5-METHOXY-PSORALEN	Fruit Essent. Oil				Jim Duke's personal files.
0	3',4',5-TRIHYDROXY-FLAVONE-7-O-BETA-D-RHAMNOSYL-GLUCOSIDE	Plant				--
0	ALPHA-COPAENE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	SYRINGIN	Pericarp				Jim Duke's personal files.
0	2',4',5-TRIHYDROXY-FLAVONONE-7-O-BETA-D-GLUCOSYL-RHAMNOSIDE	Pericarp				--
5	HEXANAL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	DICONIFERYL-ALCOHOL-4-BETA-D-GLUCOSIDE	Pericarp				Jim Duke's personal files.
0	3-(3',4',5'-TRIMETHOXY-PHENYL)-PROPANYL-PROPIONATE	Fruit Essent. Oil				Jim Duke's personal files.
1	XANTHYLETIN	Root				Jim Duke's personal files.
0	7-GLUCOSYL-APIGENIN	Flower				Jim Duke's personal files.
0	NEROL-ACETATE	Pericarp Essent. Oil				Jim Duke's personal files.
2	CONIFERIN	Pericarp				Jim Duke's personal files.
0	METHYL-HEPTANONE	Leaf Essent. Oil				Jim Duke's personal files.
0	P-ALPHA-DIMETHYLSTYRENE	Plant				--
12	NARINGIN	Pericarp				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	4',5,7-TRIHYDROXY-FLAVONE-8-O-BETA-D-RHAMNOSYL	Plant				--
2	PHELLOPTERIN	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LUTEOLIN-7-O-BETA-D-RUTINOSIDE	Leaf				Jim Duke's personal files.
16	P-CYMENE	Pericarp Essent. Oil				Jim Duke's personal files.
0	OBACUNONE-17-O-BETA-D-GLUCOPYRANOSIDE	Seed				Jim Duke's personal files.
7	LINALYL-ACETATE	Essential Oil				--
11	GAMMA-TERPINENE	Pericarp				Jim Duke's personal files.
26	BERGAPTEN	Plant				Jim Duke's personal files.
0	LIMOCITRIN-3-O-(3-HYDROXY-3-METHYL-GLUTARATE-(1,2)-BETA-GLUCOSIDE	Pericarp				Jim Duke's personal files.
15	CITRONELLOL	Pericarp				Jim Duke's personal files.
0	LIMOCITRIN-3-O-(3	Plant				--
0	BRAYLIN	Root				Jim Duke's personal files.
5	SYNEPHRINE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2'-O-XYLOSYL-VITEXIN	Flower				--
0	HEXADECANAL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	OBACUNONE-17-O-BETA-D-GLUCOSIDE	Seed				Jim Duke's personal files.
0	DELTA-CARENE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	3-(3',4',5'-TRIMETHOXY-PHENYL)-PROPANYL-ACETATE	Fruit Essent. Oil				Jim Duke's personal files.
1	XANTHOXYLETIN	Root				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6-C-GLUCOSYL-DIOSMETIN	Pericarp				Jim Duke's personal files.
87	RUTIN	Leaf				Jim Duke's personal files.
10	NEROL	Pericarp Essent. Oil				Jim Duke's personal files.
0	CITRUSIN-C	Pericarp				Jim Duke's personal files.
0	GERANIOL-ACETATE	Pericarp Essent. Oil				Jim Duke's personal files.
1	N-METHYL-TYRAMINE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	4',5,7-TRIHYDROXY-FLAVONE-6-O-BETA-D-RHAMNOSYL	Plant				--
11	PERILLALDEHYDE	Fruit				--
0	LINONIN	Leaf				Jim Duke's personal files.
0	CIS-LIMONENE-1,2-OXIDE	Essential Oil				Jim Duke's personal files.
3	OBACUNONE	Seed				Jim Duke's personal files.
15	TANGERETIN	Pericarp				Jim Duke's personal files.
26	BERGAPTEN	Fruit Essent. Oil				Jim Duke's personal files.
20	CITRONELLAL	Pericarp Essent. Oil				Jim Duke's personal files.
0	LIMOCITRIN-3-(6-O-ALPHA-L-RHAMNOSYL-BETA-D-GLUCOSIDE)	Pericarp				--
0	8-(7',8'-EPOXY-GERANYLOXY)-PSORALEN	Fruit Essent. Oil				Jim Duke's personal files.
47	BETA-SITOSTEROL	Plant				--
0	ALPHA-AMINO-BUTYRIC-ACID	Plant				--
0	SUBEROSIN	Root				Jim Duke's personal files.
0	HESPERIDOSIDE	Fruit				--
3	NOOTKATONE	Tissue Culture				Jim Duke's personal files.
0	DECYL-ALDEHYDE	Leaf				--
0	LIMOCITRIN-3-(6-O-ALPHA-L-RHAMNOSYL-BETA-D-GLUCOSE)	Pericarp				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	NEOHESPERIDOSIDE	Pericarp				--
0	3-(3',4',5'-TRIMETHOXY-PHENYL)-2-PROPENYL-PROPIONATE	Fruit Essent. Oil				Jim Duke's personal files.
0	AUREUSIDIN-6-RHAMNOGLUCOSIDE	Plant				--
0	6-8-DI-C-GLUCOSYL-DIOSMETIN	Pericarp				Jim Duke's personal files.
35	GERANIOL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
53	LINALOOL	Pericarp				Jim Duke's personal files.
10	NEROL	Pericarp				Jim Duke's personal files.
0	CITRUSIN-B	Pericarp				Jim Duke's personal files.
35	GERANIOL	Pericarp				Jim Duke's personal files.
15	ISOPIMPINELLIN	Plant				--
0	PENTADECANE	Plant				--
2	FARNESENE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CHLOROPHYLL-B	Leaf				--
0	7-(3'-METHYL-BUT-2'-ENYL-OXY)-COUMARIN	Fruit Essent. Oil				Jim Duke's personal files.
0	O-PHENYLPHENOL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	SYNEPHRINE	Pericarp				Jim Duke's personal files.
2	BERGAMOTTIN	Fruit Essent. Oil				Jim Duke's personal files.
13	ALPHA-TERPINENE	Pericarp				Jim Duke's personal files.
0	4',5,7-TRIHYDROXY-FLAVONE-6,8-DI-C-GLUCOSIDE	Pericarp				--
0	PENTADECANAL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
20	CITRONELLAL	Pericarp				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LIMOCITRIN	Pericarp				Jim Duke's personal files.
0	5-(3'-METHYL-BUT-2'-ENYL-OXY)-8-(2',3'-DIHYDROXY-3'-METHYL-BUTYL-OXY)-PSORALEN	Fruit Essent. Oil				Jim Duke's personal files.
0	ALPHA,ALPHA-P-TRIMETHYLBENZYL-ALCOHOL	Plant				--
6	STACHYDRINE	Plant				--
0	LIMETTIN	Shoot				Jim Duke's personal files.
0	3-(3',4',5'-TRIMETHOXY-PHENYL)-2-PROPENYL-ACETATE	Fruit Essent. Oil				Jim Duke's personal files.
0	AUREUSIDIN-6-GLUCOSIDE	Plant				--
2	VIOLAXANTHIN	Leaf				--
4	NERAL	Pericarp Essent. Oil				Jim Duke's personal files.
0	CITRUSIN-A	Pericarp				Jim Duke's personal files.
4	OSTHOLE	Root				--
56	NARINGENIN	Pericarp				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	ERIODICTYOSIDE	Fruit				--
0	LIMONOATE-A-RING-LACTONE	Leaf				Jim Duke's personal files.
0	CHLOROPHYLL-A	Leaf				--
0	5-GERANYL-OXY-7-METHOXY-COUMARIN	Fruit Essent. Oil				Jim Duke's personal files.
3	NOOTKATONE	Plant				--
3	SESELIN	Leaf				Jim Duke's personal files.
0	4',5,7-TRIHYDROXY-3',8-DIMETHOXY-FLAVONE-3-O-BETA-D-GLUCOSYL-RHAMNOSIDE	Pericarp				--
0	ISOLIMOCITROL-3-BETA-D-GLUCOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
24	PECTIN	Pericarp				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
20	CITRONELLAL	Essential Oil				Jim Duke's personal files.
0	5-(3'-METHYL-BUT-2'-ENYL-OXY)-8-(2'',3''-EPOXY-3''-METHYL-BUTYL-OXY)-PSORALEN	Fruit Essent. Oil				Jim Duke's personal files.
28	ADENOSINE	Pericarp				Jim Duke's personal files.
31	HESPERIDIN	Fruit				Jim Duke's personal files.
0	NONAN-1-AL	Pericarp				Jim Duke's personal files.
2	DECANOL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	ISOIMPERATORIN	Fruit Essent. Oil				Jim Duke's personal files.
2	PHELLOPTERIN	Fruit Essent. Oil				Jim Duke's personal files.
2	AUREUSIDIN	Plant				--
12	VICENIN-2	Pericarp				Jim Duke's personal files.
0	5-ISOPENTENOXY-7-METHOXYCOUMARIN	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	QUERCETIN-3,5-DIGLUCOSIDE	Plant				--
0	NARIRUTIN-GLUCOSIDE	Leaf				Jim Duke's personal files.
0	CITROPTEN	Fruit				--
0	OCTYL-ALDEHYDE	Essential Oil				--
3	MUCILAGE	Fruit				--
0	COUMARINS	Pt				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	LIMONIN-17-O-BETA-D-GLUCOSIDE	Seed				Jim Duke's personal files.
0	5-(3'-METHYL-BUT-2'-ENYL-OXY)-7-METHOXY-COUMARIN	Fruit Essent. Oil				Jim Duke's personal files.
0	NONYL-ALDEHYDE	Essential Oil				--
0	LIMONOATE-A-RING-LACTONE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
44	SCOPOLETIN	Leaf				Jim Duke's personal files.
2	AURAPTEN	Fruit Essent. Oil				Jim Duke's personal files.
0	TETRADECANE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	4',5,7-TRIHYDROXY-3',8-DIMETHOXY-FLAVONE-3-O-BETA-D-GLUCOSIDE	Pericarp				--
0	ISOLIMOCITROL-3,7,4'-TRIMETHYL-ETHER	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
23	CITRIC-ACID	Fruit Juice				Jim Duke's personal files.
0	LAURALDEHYDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	BETA-PINENE	Pericarp Essent. Oil				Jim Duke's personal files.
16	ACETIC-ACID	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	DECANOIC-ACID	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
25	IMPERATORIN	Fruit Essent. Oil				Jim Duke's personal files.
0	PE	Plant				--
2	UNDECANAL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	5-GERANYL-OXYPORALEN	Pericarp				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
176	QUERCETIN	Flower				--
1	NARIRUTIN	Leaf				Jim Duke's personal files.
0	CITRONIN	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	FATTY-ACIDS(C12-C24)	Silk Stigma Style				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	OCTYL-ACETATE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EPIJASMONIC-ACID-METHYL-ESTER	Pericarp				Jim Duke's personal files.
1	CARVEOL	Essential Oil				Jim Duke's personal files.
0	5-(2',3'-EPOXY-3'-METHYL-BUTYL-OXY)-7-METHOXY-COUMARIN	Fruit Essent. Oil				Jim Duke's personal files.
0	NONYL-ACETATE	Plant				--
0	LIMONIN-17-O-BETA-D-GLUCOPYRANOSIDE	Seed				Jim Duke's personal files.
22	SCOPARONE	Leaf				Jim Duke's personal files.
112	ASCORBIC-ACID	Fruit Juice				Jim Duke's personal files.
0	TETRADECANAL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	4',5,7-TRIHIDROXY-3',6,8-TRIMETHOXY-FLAVONE-3-O-BETA-D-GLUCOSIDE	Plant				--
0	ISOLIMOCITROL	Pericarp				Jim Duke's personal files.
53	CITRAL	Pericarp				--
5	BETA-ELEMENE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	8-GERAN-OXYPORALEN	Pericarp				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	SESELIN	Root				Jim Duke's personal files.
0	HEPTADECANAL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	NOMILINIC-ACID-17-O-BETA-D-GLUCOSIDE	Seed				Jim Duke's personal files.
0	P-MENTHA-2,8-DIEN-1-OL	Essential Oil				--
0	UMBELLIPRENIN	Shoot				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5-GERANOXY-7-METHOXYPSORALEN	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	NARINGIN-6"-MALONATE	Leaf				Jim Duke's personal files.
0	CITRONETIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ERIODICTYOSIDE	Pericarp				Jim Duke's personal files.
0	OCTOPAMINE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-HEPTANONE	Essential Oil				--
1	DODECANOIC-ACID	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
19	D-LIMONENE	Pericarp				Jim Duke's personal files.
0	5-(2',3'-DIHYDROXY-3'-METHYL-BUTYL-OXY)-7-METHOXY-COUMARIN	Fruit Essent. Oil				Jim Duke's personal files.
5	LIMONIN	Seed				Jim Duke's personal files.
0	2-CARBOXYARABINITOL	Leaf				Jim Duke's personal files.
0	3-HEXEN-1-OL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	ISOIMPERATORIN	Essential Oil				--
2	NEOXANTHIN	Leaf				--
0	JASMONIC-ACID-METHYL-ESTER	Pericarp				Jim Duke's personal files.
19	CARVONE	Essential Oil				Jim Duke's personal files.
0	8-C-GLUCOSYL-DIOSMETIN	Pericarp				Jim Duke's personal files.
1	SELINENE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	GLUTAMIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	NOMILIN-17-O-BETA-D-GLUCOSIDE	Seed				Jim Duke's personal files.
1	DECAN-1-AL	Pericarp				Jim Duke's personal files.
0	ICHANGIN-17-O-BETA-D-GLUCOSIDE	Seed				Jim Duke's personal files.
0	P-MENTHA-1,8-DIEN-9-YL-ACETATE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
6	OXYPEUCEDANIN	Fruit Essent. Oil				Jim Duke's personal files.
0	APIGENIN-C-GLYCOSIDE	Plant				--
22	UMBELLIFERONE	Shoot				Jim Duke's personal files.
31	CARYOPHYLLENE	Leaf Essent. Oil				Jim Duke's personal files.
0	NARINGIN-GLUCOSIDE	Leaf				Jim Duke's personal files.
0	ISOERIOCITRIN	Leaf				Jim Duke's personal files.
0	MENTH-1-EN-9-OL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	VALENCENE	Tissue Culture				Jim Duke's personal files.
0	NEOBYAKANGELICOL	Fruit Essent. Oil				Jim Duke's personal files.
19	D-LIMONENE	Essential Oil				Jim Duke's personal files.
0	CNIDICIN	Fruit Essent. Oil				Jim Duke's personal files.
5	LIMONIN	Fruit				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
5	SABINENE	Pericarp Essent. Oil				Jim Duke's personal files.
0	APIGENIN-7-(6-O-ALPHA-RHAMNOSYL-BETA-GLUCOSIDE)	Pericarp				Jim Duke's personal files.
0	3-(4-HYDROXY-3-METHOXY-PHENYL)-1-GLUCOSYL-PROP-2-ENE	Pericarp				Jim Duke's personal files.
6	NEOHESPERIDIN	Pericarp				Jim Duke's personal files.
4	ISOVITEXIN	Pericarp				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
13	BETA-PINENE	Pericarp				Jim Duke's personal files.
0	7-RHAMNO-GLUCOSYL-LUTEOLIN	Flower				--
44	SCOPOLETIN	Shoot				Jim Duke's personal files.
0	GERANYL-OXY-PYRANOCOUMARIN	Root				Jim Duke's personal files.
2	NOMILIN	Sprout Seedling				Jim Duke's personal files.
0	DEACETYL-NOMILIN-17-O-BETA-D-GLUCOPYRANOSIDE	Seed				--
31	HESPERIDIN	Leaf				Jim Duke's personal files.
0	P-CYMOL	Essential Oil				--