

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Citrus limon

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	NONANOL	Petiole		0.0		--
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.
0	8-C-GLUCOSYL-DIOSMETIN	Pericarp				Jim Duke's personal files.
24	PECTIN	Exocarp				Jim Duke's personal files.
11	TYRAMINE	Leaf				--
0	PONCIRIN	Plant				--
0	GAMMA-SITOSTEROL	Plant				--
9	CAMPHENE	Petiole		3.0		--
12	NARINGIN	Leaf				Jim Duke's personal files.
0	LIMOCITROL-3-O-(5-ALPHA-GLUCOSYL-3	Plant				--
0	APIGENIN-C-GLYCOSIDE	Plant				--
2	RHOIFOLIN	Leaf				Jim Duke's personal files.
0	ALPHA,ALPHA-P-TRIMETHYLBENZYL-ALCOHOL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	5-GERANOXY-7-METHOXYCOUMARIN	Essential Oil	603.0	630.0		--
25	IMPERATORIN	Fruit				--
34	DIOSMIN	Fruit		5.0		--
5	SABINENE	Petiole		95.0		--
19	D-LIMONENE	Pericarp Essent. Oil		694400.0		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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2-DODECENAL	Petiole		0.0		--
2	GERANYL-FORMATE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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	ALPHA-BERGAMOTENE	Petiole				--
0	ISORHOIFOLIN	Leaf				Jim Duke's personal files.
5	ZEAXANTHIN	Leaf				--
0	3-(4-HYDROXY-3-METHOXY-PHENYL)-1-GLUCOSYL-PROP-2-ENE	Pericarp				Jim Duke's personal files.
3	DIPHENYLAMINE	Plant				Jim Duke's personal files.
0	OCTAN-1-AL	Pericarp				Jim Duke's personal files.
0	NONANAL	Petiole		1.5		--
78	LUTEOLIN	Flower				--
9	TERPINOLENE	Leaf Essent. Oil				Jim Duke's personal files.
5	BYAKANGELICIN	Fruit Essent. Oil				Jim Duke's personal files.
0	7-RHAMNO-GLUCOSYL-LUTEOLIN	Flower				--
1	PABULENOL	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.
9	CAMPHENE	Leaf Essent. Oil				Jim Duke's personal files.
22	MYRCENE	Pericarp Essent. Oil				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	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	5,7-DIMETHOXYCOUMARIN	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	TERPINEN-4-OL	Pericarp Essent. Oil	1000.0	11000.0		Jim Duke's personal files.
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				--
13	BETA-PINENE	Petiole		595.0		--
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.
2	DODECANAL	Petiole		0.0		--
3	GERANYL-BUTYRATE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	NERYL-ACETONE	Leaf Essent. Oil		28000.0		Jim Duke's personal files.
0	D-GALACTURONIC-ACID	Fruit				--
2	HERACLENIN	Fruit Essent. Oil				Jim Duke's personal files.
0	NARINGOSIDE	Fruit				--
4	CADINENE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ISORHAMNETIN-3-ARABINOGLUCOSIDE	Plant				--
28	ALPHA-PINENE	Pericarp				Jim Duke's personal files.
0	XYLOSYL-VITEXIN	Flower				--
0	3',4',5-TRIHYDROXY-FLAVONONE-7-O-BETA-D-RHAMNOSYL	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
34	DIOSMIN	Leaf				Jim Duke's personal files.
2	OCIMENE	Leaf Essent. Oil				Jim Duke's personal files.
5	NERYL-ACETATE	Petiole		13.0		--
23	ALPHA-TERPINEOL	Pericarp				Jim Duke's personal files.
0	7-RHAMNO-GLUCOSYL-DIOSMETIN	Flower				--
0	TRANS-LIMONENE-1,2-OXIDE	Essential Oil				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.
0	ALPHA-THUJENE	Petiole		20.0		--
22	MYRCENE	Pericarp				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	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	4-(3-METHYL-2-BUTENOXY)-ACETOPHENONE	Pericarp				--
9	SYRINGIN	Pericarp				Jim Duke's personal files.
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.
28	ALPHA-PINENE	Petiole		90.0		--
0	LIMOCITRIN-3-O-(5-ALPHA-GLUCOSYL-3-HYDROXY-3-METHYL-GLUTARATE-(1,2)-BETA-GLUCOSIDE)	Pericarp				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	CITRONELLOL	Pericarp Essent. Oil				Jim Duke's personal files.
0	DECANAL	Petiole		1.5		--
0	LIMOCITRIN-3-O-(5-ALPHA-GLUCOSYL-3	Plant				--
5	GERANYL-ACETATE	Essential Oil	12.0	310.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
53	LINALOOL	Petiole		12.0		--
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.
0	BYAKANGELICOL	Essential Oil				--
0	ALPHA-CUBEBENE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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	3',4',5'-TRIHYDROXY-FLAVONE-7-O-BETA-D-RHAMNOSYL	Plant				--
16	P-CYMENE	Pericarp Essent. Oil				Jim Duke's personal files.
0	OBACUNONE-17-O-BETA-D-GLUCOPYRANOSIDE	Seed				Jim Duke's personal files.
10	NEROL	Petiole		41.0		--
7	LINALYL-ACETATE	Essential Oil				--
26	BERGAPTEN	Essential Oil		10.0		Jim Duke's personal files.
11	GAMMA-TERPINENE	Pericarp				Jim Duke's personal files.
26	BERGAPTEN	Plant				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	7-PENTAHYDROXY-2',3',5,5'-PENTAHYDROXY-FLAVANONE-7-(6-O-ALPHA-L-RHAMNOSYL-BETA-D-GLUCOSIDE	Pericarp				--
2	PHELLOPTERIN	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-TERPINYL-ACETATE	Petiole		0.1		--
0	LUTEOLIN-7-O-BETA-D-RUTINOSIDE	Leaf				Jim Duke's personal files.
0	8-GERAN-OXYPORALEN	Essential Oil		387.0		Jim Duke's personal files.
0	4',7-DIHYDROXY-3'-METHOXY-FLAVONONE-8-O-BETA-D-GLUCOSYL-RHAMNOSIDE	Pericarp				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	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.
3	BETA-PHELLANDRENE	Petiole		8.0		--
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.
2	NERYL-FORMATE	Essential Oil		20.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
16	P-CYMENE	Petiole		7.5		--
0	LIMOCITRIN-3-O-(3	Plant				--
10	NEROL	Pericarp Essent. Oil				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CITRUSIN-C	Pericarp				Jim Duke's personal files.
0	GERANIOL-ACETATE	Pericarp Essent. Oil				Jim Duke's personal files.
2	OXYPEUCEDANIN-HYDRATE	Essential Oil		64.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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.
5	BYAKANGELICIN	Essential Oil		29.0		--
0	ALPHA-COPAENE	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.
0	2',4',5'-TRIHYDROXY-FLAVONONE-7-O-BETA-D-GLUCOSYL-RHAMNOSIDE	Pericarp				--
87	RUTIN	Leaf				Jim Duke's personal files.
3	OBACUNONE	Seed				Jim Duke's personal files.
4	NERAL	Petiole		60.0		--
2	BERGAMOTTIN	Essential Oil		649.0		Jim Duke's personal files.
15	TANGERETIN	Pericarp				Jim Duke's personal files.
26	BERGAPTEN	Fruit Essent. Oil				Jim Duke's personal files.
0	7-GLUCOSYL-APIGENIN	Flower				Jim Duke's personal files.
71	THYMOL	Pericarp Essent. Oil	53000.0	111000.0		Jim Duke's personal files.
11	PERILLALDEHYDE	Fruit				--
23	ALPHA-TERPINEOL	Petiole		32.0		--
0	LINONIN	Leaf				Jim Duke's personal files.
0	CIS-LIMONENE-1,2-OXIDE	Essential Oil				Jim Duke's personal files.
0	8-(7',8'-EPOXY-GERANYL-OXY)-PSORALEN	Fruit Essent. Oil				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	NOOTKATONE	Essential Oil		1.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	4',5,7-TRIHYDROXY-FLAVONE-8-O-BETA-D-RHAMNOSYL	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				--
11	ALPHA-PHELLANDRENE	Petiole		2.0		--
0	LIMOCITRIN-3-(6-O-ALPHA-L-RHAMNOSYL-BETA-D-GLUCOSE)	Pericarp				Jim Duke's personal files.
20	CITRONELLAL	Pericarp Essent. Oil				Jim Duke's personal files.
0	NEROL-ACETATE	Essential Oil	16.0	310.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-COPAENE	Petiole		0.0		--
0	LIMOCITRIN-3-(6-O-ALPHA-L-RHAMNOSYL-BETA-D-GLUCOSIDE)	Pericarp				--
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.
6	OXYPEUCEDANIN	Essential Oil		207.0		--
0	OCTANOL	Petiole		2.0		--
0	BRAYLIN	Root				Jim Duke's personal files.
0	NEOHESPERIDOSIDE	Pericarp				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3-(3',4',5'-TRIMETHOXY-PHENYL)-2-PROPENYL-PROPIONATE	Fruit Essent. Oil				Jim Duke's personal files.
0	2'-O-XYLOSYL-VITEXIN	Flower				--
0	O-PHENYLPHENOL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
22	MYRCENE	Petiole		75.0		--
0	BERGAMOTENE	Essential Oil	16.0	40.0		--
5	SYNEPHRINE	Pericarp				Jim Duke's personal files.
2	BERGAMOTTIN	Fruit Essent. Oil				Jim Duke's personal files.
0	6-C-GLUCOSYL-DIOSMETIN	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.
9	TERPINOLENE	Petiole		26.0		--
0	CHLOROPHYLL-B	Leaf				--
0	7-(3'-METHYL-BUT-2'-ENYL-OXY)-COUMARIN	Fruit Essent. Oil				Jim Duke's personal files.
0	4',5,7-TRIHYDROXY-FLAVONE-6-O-BETA-D-RHAMNOSYL	Plant				--
6	STACHYDRINE	Plant				--
0	NONAN-1-OL	Leaf Essent. Oil		14000.0		Jim Duke's personal files.
1	DECYL-ACETATE	Plant		5.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LIMETTIN	Shoot				Jim Duke's personal files.
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
2	CITRONELLYL-ACETATE	Petiole		1.0		--
0	LIMOCITRIN	Pericarp				Jim Duke's personal files.
23	ALPHA-TERPINEOL	Pericarp Essent. Oil	4000.0	73000.0		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.
4	NERAL	Pericarp Essent. Oil				Jim Duke's personal files.
0	CITRUSIN-A	Pericarp				Jim Duke's personal files.
4	OSTHOLE	Root				--
0	OCTANAL	Petiole		2.0		--
47	BETA-SITOSTEROL	Plant				--
56	NARINGENIN	Pericarp				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	ALPHA-AMINO-BUTYRIC-ACID	Plant				--
0	3-(3',4',5'-TRIMETHOXY-PHENYL)-2-PROPENYL-ACETATE	Fruit Essent. Oil				Jim Duke's personal files.
2	VIOLAXANTHIN	Leaf				--
3	NOOTKATONE	Plant				--
2	ALPHA-HUMULENE	Petiole		1.5		--
0	LINALOL	Pericarp Essent. Oil	7000.0	110000.0		--
0	AUREUSIDIN-6-RHAMNOGLUCOSIDE	Plant				--
3	SESELIN	Leaf				Jim Duke's personal files.
0	BETA-BERGAMOTENE	Leaf Essent. Oil		8000.0		Jim Duke's personal files.
0	6-8-DI-C-GLUCOSYL-DIOSMETIN	Pericarp				Jim Duke's personal files.
0	TETRAHYDROGERANIOL	Essential Oil		10.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ISOLIMOCITROL-3-BETA-D-GLUCOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ERIODICTYOSIDE	Fruit				--
23	TERPINEN-4-OL	Petiole		22.0		--
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.
0	4',5,7-TRIHYDROXY-FLAVONE-6,8-DI-C-GLUCOSIDE	Pericarp				--
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.
24	PECTIN	Pericarp				--
20	CITRONELLAL	Essential Oil				Jim Duke's personal files.
20	CITRONELLAL	Petiole		3.0		--
0	LIMETTIN	Essential Oil		295.0		--
13	ALPHA-TERPINENE	Pericarp				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.
0	NARIRUTIN-GLUCOSIDE	Leaf				Jim Duke's personal files.
0	CITROPTEN	Fruit				--
13	GERANIAL	Pericarp Essent. Oil		17600.0		Jim Duke's personal files.
0	OCTYL-ALDEHYDE	Essential Oil				--
0	(Z)-BETA-OCIMENE	Petiole		3.5		--
3	MUCILAGE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	COUMARINS	Pt				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	ALPHA,ALPHA-P-TRIMETHYLBENZYL-ALCOHOL	Plant				--
2	PHELLOPTERIN	Fruit Essent. Oil				Jim Duke's personal files.
12	VICENIN-2	Pericarp				Jim Duke's personal files.
0	QUERCETIN-3,5-DIGLUCOSIDE	Plant				--
53	LINALOOL	Pericarp Essent. Oil	7000.0	111000.0		Jim Duke's personal files.
0	NONYL-ALDEHYDE	Essential Oil				--
0	1-HEXEN-3-OL	Petiole		2.0		--
0	LIMONOATE-A-RING-LACTONE	Fruit				--
0	AUREUSIDIN-6-GLUCOSIDE	Plant				--
44	SCOPOLETIN	Leaf				Jim Duke's personal files.
2	AURAPTEN	Fruit Essent. Oil				Jim Duke's personal files.
0	6,7-DIMETHOXYCOUMARIN	Bark		162.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TETRADECANE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ISOLIMOCITROL-3,7,4'-TRIMETHYL-ETHER	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ERIOCITRIN	Fruit		1.0		Jim Duke's personal files.
11	GAMMA-TERPINENE	Petiole		535.0		--
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.
60	LIMONENE	Pericarp Essent. Oil	512000.0	774000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	4',5,7-TRIHYDROXY-3',8-DIMETHOXY-FLAVONE-3-O-BETA-D-GLUCOSYL-RHAMNOSIDE	Pericarp				--
0	NOMILINIC-ACID-4-BETA-D-GLUCOSIDE	Pericarp		9.8		Jim Duke's personal files.
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				--
23	CITRIC-ACID	Fruit Juice				Jim Duke's personal files.
0	BETA-CARYOPHYLLENE	Petiole		13.0		--
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.
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.
0	OCTYL-ACETATE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	(E)-BETA-OCIMENE	Petiole		6.0		--
0	METHYL-HEPTENONE	Leaf Essent. Oil		6000.0		--
28	ADENOSINE	Pericarp				Jim Duke's personal files.
2	UNDECANAL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
176	QUERCETIN	Flower				--
60	LIMONENE	Petiole		3090.0		--
5	GERANYL-ACETATE	Petiole		12.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LIMONIN-17-O-BETA-D-GLUCOPYRANOSIDE	Seed				Jim Duke's personal files.
2	AUREUSIDIN	Plant				--
22	SCOPARONE	Leaf				Jim Duke's personal files.
112	ASCORBIC-ACID	Fruit Juice				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	TETRADECANAL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ISOLIMOCITROL	Pericarp				Jim Duke's personal files.
0	EPIJASMONIC-ACID-METHYL-ESTER	Pericarp				Jim Duke's personal files.
13	ALPHA-TERPINENE	Petiole		8.0		--
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	4',5,7-TRIHYDROXY-3',8-DIMETHOXY-FLAVONE-3-O-BETA-D-GLUCOSIDE	Pericarp				--
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	DECANAL	Essential Oil	6.0	20.0		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.
0	P-MENTHA-2,8-DIEN-1-OL	Essential Oil				--
53	CITRAL	Pericarp				--
1	CARVEOL	Petiole		0.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
3	NOOTKATONE	Petiole		0.0		--
0	METHYL-HEPTANONE	Essential Oil				--
0	BETA-HUMULENE	Essential Oil		10.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
53	CITRAL	Fruit Essent. Oil		6000.0		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	BETA-PHELLANDRENE	Pericarp Essent. Oil		65900.0		Jim Duke's personal files.
0	UMBELLIPRENIN	Shoot				Jim Duke's personal files.
35	GERANIOL	Petiole		80.0		--
5	LIMONIN	Seed				Jim Duke's personal files.
22	SCOPARONE	Bark		162.5		Jim Duke's personal files.
0	2-CARBOXYARABINITOL	Leaf				Jim Duke's personal files.
0	5-GERANYL-OXYPYSORALEN	Pericarp				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	ISOIMPERATORIN	Essential Oil				--
1	DODECANOIC-ACID	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BETA-SINENSAL	Petiole		1.5		--
19	D-LIMONENE	Pericarp				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5-(2',3'-DIHYDROXY-3'-METHYL-BUTYL-OXY)-7-METHOXY-COUMARIN	Fruit Essent. Oil				Jim Duke's personal files.
0	NONANAL	Essential Oil	9.0	30.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	SELINENE	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	GLUTAMIC-ACID	Plant				--
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.
2	NEOXANTHIN	Leaf				--
8	DELTA-3-CARENE	Petiole		1.0		--
0	JASMONIC-ACID-METHYL-ESTER	Pericarp				Jim Duke's personal files.
19	CARVONE	Essential Oil				Jim Duke's personal files.
0	4',5,7-TRIHYDROXY-3',6,8-TRIMETHOXY-FLAVONE-3-O-BETA-D-GLUCOSIDE	Plant				--
0	ISOERIOCITRIN	Leaf				Jim Duke's personal files.
0	OCTANOL	Essential Oil	10.0	15.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	2-NONENAL	Petiole		1.0		--
0	MENTH-1-EN-9-OL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	BETA-ELEMENE	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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	NEOBYAKANGELICOL	Fruit Essent. Oil				Jim Duke's personal files.
0	8-GERAN-OXYPsorALEN	Pericarp				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
6	OXYPEUCEDANIN	Fruit Essent. Oil				Jim Duke's personal files.
22	UMBELLIFERONE	Shoot				Jim Duke's personal files.
11	GAMMA-TERPINENE	Pericarp Essent. Oil	12000.0	83200.0		Jim Duke's personal files.
31	CARYOPHYLLENE	Leaf Essent. Oil				Jim Duke's personal files.
0	NARINGIN-GLUCOSIDE	Leaf				Jim Duke's personal files.
13	GERANIAL	Petiole		60.0		--
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	5-GERANOXY-7-METHOXYPsorALEN	Essential Oil				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	ALPHA-SINENSAL	Petiole		0.0		--
19	D-LIMONENE	Essential Oil				Jim Duke's personal files.
0	CNIDICIN	Fruit Essent. Oil				Jim Duke's personal files.
0	NONAN-1-AL	Essential Oil	3.0	7.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
44	SCOPOLETIN	Shoot				Jim Duke's personal files.
0	GERANYL-OXY-PYRANOCOUMARIN	Root				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
6	NEOHESPERIDIN	Pericarp				Jim Duke's personal files.
6	BETA-BISABOLENE	Petiole		25.0		--
4	ISOVITEXIN	Pericarp				Jim Duke's personal files.
28	ALPHA-PINENE	Pericarp Essent. Oil	5000.0	14000.0		Jim Duke's personal files.
13	BETA-PINENE	Pericarp				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.
0	KILOCALORIES	Fruit		2640.0	-1.5500422105520721	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
3	BETA-PHELLANDRENE	Essential Oil		80.0	-1.254423892232491	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EO	Pericarp		2600.0	-1.1594356213080714	--
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.)
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.)
20	CITRONELLAL	Leaf Essent. Oil	25000.0	89000.0	-1.0	Jim Duke's personal files.
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	LINALOL	Essential Oil	8.0	30.0	-1.0	--
3	ISOPULEGOL	Leaf Essent. Oil		40000.0	-1.0	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-BERGAMOTENE	Essential Oil		250.0	-1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LINALOL	Leaf Essent. Oil	17000.0	81000.0	-1.0	--
10	NEROL	Leaf Essent. Oil	8000.0	76000.0	-1.0	Jim Duke's personal files.
0	HEPTANAL	Essential Oil		4.0	-1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
15	CITRONELLOL	Leaf Essent. Oil	3700.0	14000.0	-0.9724708703903254	Jim Duke's personal files.
15	FIBER	Fruit	17000.0	47000.0	-0.8934118438004772	--
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.
53	CITRAL	Essential Oil	250.0	300.0	-0.7878308981922465	--
13	ALPHA-TERPINENE	Essential Oil		70.0	-0.7756123212065256	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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.
31	CARYOPHYLLENE	Essential Oil	11.0	28.0	-0.7680967243064245	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
28	ALPHA-PINENE	Fruit Essent. Oil		7000.0	-0.7563238037559155	Jim Duke's personal files.
0	ASH	Fruit		28000.0	-0.7422580290226741	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
28	ALPHA-PINENE	Leaf Essent. Oil	500.0	2000.0	-0.7421534872468563	Jim Duke's personal files.
15	LUTEIN	Fruit	0.12	1.2	-0.731124155967682	--
13	BETA-PINENE	Essential Oil	40.0	1270.0	-0.7021862831547401	--
13	BETA-PINENE	Fruit Essent. Oil		7000.0	-0.6959144908685471	Jim Duke's personal files.
9	CAMPHENE	Essential Oil	2.0	50.0	-0.6924881415674572	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
60	LIMONENE	Essential Oil	2796.0	8000.0	-0.6910184174131357	--
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.)
13	BETA-PINENE	Leaf Essent. Oil		7000.0	-0.6862264928828316	Jim Duke's personal files.
2	CITRONELLYL-ACETATE	Plant	4.0	20.0	-0.6827759635190207	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
67	1,8-CINEOLE	Leaf Essent. Oil	11000.0	50000.0	-0.6565847961763176	Jim Duke's personal files.
87	RUTIN	Fruit	1.0	2.0	-0.6531383244068485	--
3	BETA-PHELLANDRENE	Leaf Essent. Oil		3300.0	-0.6449387865926303	Jim Duke's personal files.
16	P-CYMENE	Essential Oil	12.0	31.0	-0.6331366260891432	--
35	GERANIOL	Leaf Essent. Oil	13000.0	60200.0	-0.6318280565838599	Jim Duke's personal files.
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.
5	SABINENE	Essential Oil	50.0	175.0	-0.5948547061177535	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.
53	LINALOOL	Essential Oil	8.0	30.0	-0.583010006932893	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
39	NIACIN	Fruit	10.0	19.0	-0.5574314089774005	--
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.
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.)
16	P-CYMENE	Leaf Essent. Oil	4100.0	20000.0	-0.4814765484301064	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ALPHA-HUMULENE	Essential Oil		10.0	-0.48105436900291004	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	SABINENE	Leaf Essent. Oil		10000.0	-0.4720621937310914	Jim Duke's personal files.
6	BETA-BISABOLENE	Leaf Essent. Oil		8000.0	-0.45226094922261545	Jim Duke's personal files.
15	RIBOFLAVIN	Fruit	2.0	3.0	-0.4303249009534089	--
22	MYRCENE	Essential Oil	65.0	1270.0	-0.42741750795730477	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	FAT	Fruit		28000.0	-0.42739034203512904	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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.
9	TERPINOLENE	Essential Oil	14.0	120.0	-0.39476259711357375	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BETA-CARYOPHYLLENE	Leaf Essent. Oil	100.0	3500.0	-0.38515655776504104	Jim Duke's personal files.
61	FERULIC-ACID	Fruit	14.0	40.0	-0.3813850356982369	--
4	PHOSPHORUS	Fruit	100.0	1979.0	-0.3757244939645237	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
7	SALICYLATES	Fruit		0.0	-0.3367420403588193	--
102	CAFFEIC-ACID	Fruit	21.0	35.0	-0.3324337022744836	--
22	MYRCENE	Leaf Essent. Oil	5500.0	10000.0	-0.32786228882013646	Jim Duke's personal files.
23	TERPINEN-4-OL	Leaf Essent. Oil	29600.0	31000.0	-0.2861319108695746	Jim Duke's personal files.
14	POTASSIUM	Fruit		14700.0	-0.28457604716385243	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	IRON	Fruit	23.0	72.0	-0.24188358819633976	--
25	P-COUMARIC-ACID	Fruit	6.0	102.0	-0.20876433550573723	--
53	LINALOOL	Leaf Essent. Oil	18000.0	81000.0	-0.1829511978385886	Jim Duke's personal files.
11	GAMMA-TERPINENE	Leaf Essent. Oil	3000.0	44000.0	-0.14954213307604686	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	BETA-CAROTENE	Fruit	0.0	2.0	-0.14693466516508752	--
28	CALCIUM	Fruit	700.0	3227.0	-0.14521436633635507	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	SODIUM	Fruit		470.0	-0.13938121430353298	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	PROTEIN	Fruit	10000.0	111000.0	0.020127724197141796	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	TRANS-BETA-OCIMENE	Leaf Essent. Oil		7500.0	0.027166291246208063	Jim Duke's personal files.
112	ASCORBIC-ACID	Fruit	5208.0	5566.0	0.061588136058018224	--
31	THIAMIN	Fruit	4.0	6.0	0.08541669233982067	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
62	CAFFEINE	Flower		50.0	0.21997067253202995	--
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.
0	LINALOOL-ACETATE	Leaf Essent. Oil		22000.0	0.409907762680937	Jim Duke's personal files.
0	CARBOHYDRATES	Fruit	111000.0	863000.0	0.42843384218109976	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	WATER	Fruit	850000.0	894000.0	0.5366602504029064	--
9	SINAPIC-ACID	Fruit	14.0	18.0	0.6272500481871801	--
0	FAT	Seed	300000.0	400000.0	0.7090517076840918	--
31	HESPERIDIN	Pericarp	20500.0	68800.0	0.9831655478788394	Jim Duke's personal files.
1	NARIRUTIN	Pericarp		3600.0	1.0	Jim Duke's personal files.
71	THYMOL	Leaf Essent. Oil		11000.0	1.0	Jim Duke's personal files.
0	ISOPULEGOLE	Leaf Essent. Oil	18000.0	114000.0	1.0	Jim Duke's personal files.
0	GERANIOL-ACETATE	Leaf Essent. Oil		8100.0	1.0	Jim Duke's personal files.
0	NEROL-ACETATE	Leaf Essent. Oil		9000.0	1.0	Jim Duke's personal files.
13	GERANIAL	Essential Oil	42.0	236.0	1.0	--
13	GERANIAL	Leaf Essent. Oil	3000.0	233000.0	1.0	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
4	NERAL	Essential Oil	27.0	130.0	1.0	--
19	D-LIMONENE	Leaf Essent. Oil	99000.0	667000.0	1.0	Jim Duke's personal files.
4	NERAL	Leaf Essent. Oil	4000.0	172700.0	1.0	Jim Duke's personal files.
0	EO	Pt	2000.0	6000.0	1.0	--
60	LIMONENE	Fruit Essent. Oil	512000.0	980000.0	1.267182025507371	Jim Duke's personal files.
8	CARYOPHYLLENE-OXIDE	Leaf Essent. Oil	0.8	15600.0	1.322705019532784	Jim Duke's personal files.
23	ALPHA-TERPINEOL	Leaf Essent. Oil	4000.0	125000.0	1.6609342933031976	Jim Duke's personal files.
60	LIMONENE	Leaf Essent. Oil	284000.0	754000.0	2.654734671831716	--