

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Carica papaya

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DEHYDROCARPAMINES	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	CARICA-PAPAYA-POLYSACCHARIDE	Latex Exudate				Jim Duke's personal files.
0	BENZYLSENEVOL	Seed				--
2	METHANOL	Fruit				Jim Duke's personal files.
2	VIOLAXANTHIN	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	BENZYL-GLUCOSINOLATE	Fruit				Jim Duke's personal files.
47	BETA-SITOSTEROL	Leaf				Jim Duke's personal files.
17	CARPAINE	Plant				Jim Duke's personal files.
0	2,6-DIMETHYL-OCTA-1,7-DIENE-3,6-DIOL	Fruit Essent. Oil				Jim Duke's personal files.
4	CARPOSIDE	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	MYROSIN	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	BUTANOIC-ACID-METHYL-ESTER	Fruit		0.047		Jim Duke's personal files.
0	AMYL-ACETATE	Fruit				--
7	LAURIC-ACID	Flower				Jim Duke's personal files.
0	N-TRICOSANE	Seed Oil				Jim Duke's personal files.
0	FATTY-ACIDS	Seed Oil				Jim Duke's personal files.
0	PAPAYA-PROTEINASE-OMEGA	Latex Exudate				Jim Duke's personal files.
0	LINALOOL-OXIDE-A	Fruit				--
0	N-HEPTACOSANE	Seed Oil				Jim Duke's personal files.
8	GLUTAMIC-ACID	Fruit				USDA's Ag Handbook 8 and sequelae)
0	DELTA-5-STIGMASTEROL	Seed Oil				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CRYPTOXANTHIN-MONOEOXIDE	Pericarp				Jim Duke's personal files.
5	OCTANOIC-ACID	Fruit				Jim Duke's personal files.
0	FAT	Latex Exudate		24000.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	CALLOSE	Latex Exudate				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-GERANATE	Fruit				--
0	ARACHIDIC-ACID	Flower				Jim Duke's personal files.
0	(Z)-BETA-OCIMENE	Fruit				--
0	DEHYDROCARPAINES	Leaf		1000.0		Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
0	CARICA-PAPAYA-ANTICOAGULANT	Latex Exudate				Jim Duke's personal files.
20	BENZYL-ISOTHIOCYANATE	Fruit	0.001	291.0		--
0	LYSOZYME	Latex Exudate				Jim Duke's personal files.
0	BETA-CAROTENE-5,6-EPOXIDE	Fruit				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
7	GLUCOSE	Leaf				Jim Duke's personal files.
3	PYRIDINE	Fruit				Jim Duke's personal files.
0	BETA-BETA-CAROTENE-3-DIOL	Leaf				Jim Duke's personal files.
0	2,6-DIMETHYL-OCT-7-ENE-2,3,6-TRIOL	Fruit Essent. Oil				Jim Duke's personal files.
0	CARPASEMINE	Seed		3500.0		--
6	MYRISTIC-ACID	Seed				--
0	BUTANOIC-ACID	Fruit		1.2		Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	ALPHA-TERPINENE	Fruit				--
7	LAURIC-ACID	Leaf				Jim Duke's personal files.
0	N-TRIACONTANE	Seed Oil				Jim Duke's personal files.
14	SUCROSE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
24	ETHANOL	Fruit				Jim Duke's personal files.
0	PAPAYA-POLYSACCHARIDE-II	Fruit				Jim Duke's personal files.
0	GLUCOTROPAEOLIN	Plant				--
12	STIGMASTEROL	Seed Oil				Jim Duke's personal files.
0	PSEUDOCARPAIN	Leaf		100.0		--
2	CRYPTOXANTHIN	Pericarp				Jim Duke's personal files.
0	OCTAN-3-OL	Fruit				Jim Duke's personal files.
0	METHYL-ALCOHOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	(E)-BETA-OCIMENE	Fruit				--
3	N-HENTRIACONTANE	Seed Oil				Jim Duke's personal files.
0	DECANAL	Fruit				--
0	CARICA-PAPAYA-AMYLASE	Fruit				Jim Duke's personal files.
16	LYCOPENE	Pericarp				Jim Duke's personal files.
0	LINALOL-OXIDE-B	Fruit				--
0	BETA-CRYPTOXANTHIN-PALMITATE	Fruit				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
7	GLUCOSE	Bark				Jim Duke's personal files.
2	PRUNASIN	Leaf				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PSEUDO-PSEUDOCAROTENE	Leaf				Jim Duke's personal files.
0	N-NONADECANE	Seed Oil				Jim Duke's personal files.
17	CARPAININE	Seed				--
0	BUTANEDIONE	Fruit				Jim Duke's personal files.
11	ALPHA-PHELLANDRENE	Fruit				--
2	ISOAMYL-ACETATE	Fruit				--
0	N-EICOSANE	Seed Oil				Jim Duke's personal files.
0	PAPAYA-PEPTIDASE-A	Latex Exudate				Jim Duke's personal files.
8	STEARIC-ACID	Flower				Jim Duke's personal files.
0	COTININE	Leaf		27.8		Jim Duke's personal files.
53	BETA-CAROTENE	Pericarp				Jim Duke's personal files.
3	METHYL-ACETATE	Fruit				--
0	MUTATOCHROME	Fruit				--
0	N-HENEICOSANE	Seed Oil				Jim Duke's personal files.
2	GERMACRENE-D	Fruit				--
0	D-GALACTURONIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CARICA-PAPAYA-ALKALOID-(C-11-H-14-N-2-O)	Leaf		2.8		Jim Duke's personal files.
1	BEHENIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LINOLENIC-ACID	Seed Oil				Jim Duke's personal files.
0	LINALOL-OXIDE-A	Fruit				--
1	ANTHERAXANTHIN	Fruit				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	GLUCOSE	Fruit				Jim Duke's personal files.
0	PROTEINASE	Latex Exudate				Jim Duke's personal files.
1	EPSILON-CAROTENE	Pericarp				Jim Duke's personal files.
1	N-NONACOSANE	Seed Oil				Jim Duke's personal files.
17	CARPAIN	Root				--
22	MYRCENE	Fruit				--
0	2-METHYL-BUTAN-1-AL	Fruit		0.006		Jim Duke's personal files.
0	HEXYL-ALCOHOL	Fruit				Jim Duke's personal files.
32	ALPHA-TOCOPHEROL	Leaf				Jim Duke's personal files.
0	N-DOTRIACONTANE	Seed Oil				Jim Duke's personal files.
2	PALMITOLEIC-ACID	Flower				Jim Duke's personal files.
4	CHYMOPAPAIN	Latex Exudate				--
0	OCTADECENOIC-ACID	Seed Oil				Jim Duke's personal files.
0	ETHYL-OCTANOATE	Fruit				--
0	PHENYLACETONITRILE	Fruit		0.017		--
53	BETA-CAROTENE	Seed Oil				Jim Duke's personal files.
0	BUTYL-HEXANOATE	Fruit				--
31	CARYOPHYLLENE	Fruit				--
0	SULFOQUINOVOSYL-DIACYL-GLYCEROL	Fruit				Jim Duke's personal files.
2	GERANYL-ACETONE	Fruit				--
8	STEARIC-ACID	Leaf				Jim Duke's personal files.
0	D-GALACTOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OCTANAL	Fruit				--
1	CAPROIC-ACID	Fruit				Jim Duke's personal files.
27	LINOLEIC-ACID	Flower				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LINALOL	Fruit				--
10	XYLITOL	Bark				Jim Duke's personal files.
0	TRIACETIN	Fruit				--
8	GENTISIC-ACID	Leaf				Jim Duke's personal files.
0	PROTEASE	Tissue Culture				Jim Duke's personal files.
17	CARPAIN	Leaf	150.0	4000.0		--
2	MYOSMINE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BUT-2-ENOIC-ACID-METHYL-ESTER	Fruit		0.0		Jim Duke's personal files.
1	HEXYL-ACETATE	Fruit				Jim Duke's personal files.
0	N-DODECANE	Seed Oil				Jim Duke's personal files.
13	PALMITIC-ACID	Flower				Jim Duke's personal files.
0	N-OCTADECANE	Seed Oil				Jim Duke's personal files.
1	ETHYL-BUTYRATE	Fruit				--
0	PENTAN-2,4-DIONE	Fruit				--
0	BETA-PSEUDOCAROTENE	Leaf				Jim Duke's personal files.
0	BUTYL-BENZOATE	Fruit				--
77	ZINC	Fruit				--
0	SULFOQUINOVOSYL-DIACYL-GLYCEROL	Pericarp				Jim Duke's personal files.
11	GAMMA-TERPINENE	Fruit				--
0	COTININE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	NONANAL	Fruit				--
2	CAMPESTEROL	Seed Oil				Jim Duke's personal files.
27	LINOLEIC-ACID	Leaf				Jim Duke's personal files.
0	O-XYLENE	Fruit				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	GALACTOSE	Bark				Jim Duke's personal files.
2	ISOPROPYL-ALCOHOL	Fruit				Jim Duke's personal files.
0	METHYL-NICOTINATE	Fruit		0.001		Jim Duke's personal files.
17	CARPAIN	Bark				--
0	MUTATOCHROM	Fruit				--
0	BUT-2-ENOIC-ACID-BENZYL-ESTER	Fruit		0.0		Jim Duke's personal files.
0	TETRAPHYLLIN-B	Leaf				Jim Duke's personal files.
0	N-DOCOSANE	Seed Oil				Jim Duke's personal files.
13	PALMITIC-ACID	Leaf				Jim Duke's personal files.
2	GAMMA-CAROTENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CHOLESTEROL	Seed Oil				Jim Duke's personal files.
0	OCTADECADIENOIC-ACID	Seed Oil				Jim Duke's personal files.
1	ETHYL-BENZOATE	Fruit				--
0	PENTADECANE	Fruit				--
0	BETA-EPSILON-CAROTENE	Leaf				Jim Duke's personal files.
2	BUTYL-ALCOHOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	MALIC-ACID	Latex Exudate		4400.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
5	ZEAXANTHIN	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	SULFOQUINOVOSYL-DIACYL-GLYCEROL	Leaf				Jim Duke's personal files.
0	GAMMA-OCTALACTONE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	SQUALENE	Seed Oil				Jim Duke's personal files.
0	PROPYL-ALCOHOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
21	NICOTINE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
102	CAFFEIC-ACID	Leaf				Jim Duke's personal files.
7	LAURIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	VIOLAXANTHIN	Leaf				Jim Duke's personal files.
8	FRUCTOSE	Leaf				Jim Duke's personal files.
0	PROPYL-ACETATE	Fruit				Jim Duke's personal files.
1	MYRISTOLEIC-ACID	Fruit				Jim Duke's personal files.
0	6-METHYLHEPT-5-EN-2-ONE	Fruit				--
0	HEXADECENOIC-ACID	Seed Oil		8000.0		Jim Duke's personal files.
5	HEXANAL	Fruit				--
0	N-TETRADECANE	Seed Oil				Jim Duke's personal files.
0	CARICIN	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	N-OCTACOSANE	Seed Oil				Jim Duke's personal files.
0	ETHYL-ALCOHOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
25	PAPAIN	Latex Exudate	51000.0	135000.0		--
0	BETA-BETA-CAROTENE	Leaf				Jim Duke's personal files.
6	MYRISTIC-ACID	Flower				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PHOSPHATIDYL-GLYCEROL	Fruit				Jim Duke's personal files.
47	BETA-SITOSTEROL	Seed				Jim Duke's personal files.
0	PROP-2-YL-BUTYRATE	Fruit				--
0	CARPASAMINE	Seed		3500.0		Jim Duke's personal files.
23	CITRIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	ISOBUTYL-ALCOHOL	Fruit				Jim Duke's personal files.
0	6,7-EPOXY-LINALOOL	Fruit Essent. Oil				Jim Duke's personal files.
15	5-HYDROXYTRYPTAMINE	Plant				Jim Duke's personal files.
8	FRUCTOSE	Bark				Jim Duke's personal files.
0	PAPAYA-PEPTIDASE-B	Latex Exudate				Jim Duke's personal files.
1	MYRISTOLEIC-ACID	Flower				Jim Duke's personal files.
0	METHYL-THIOCYANATE	Fruit				--
0	5,6-MONOEPOXI-BETA-CAROTENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-HEXADECANE	Seed Oil				Jim Duke's personal files.
0	HEXADECENOIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-TETRACOSANE	Seed Oil				Jim Duke's personal files.
0	CYCLOBRANOL	Seed Oil				Jim Duke's personal files.
18	OLEIC-ACID	Flower				Jim Duke's personal files.
0	2,6-DIMETHYL-OCTA-TRANS-2,7-DIENE-1,6-DIOL	Fruit Essent. Oil				Jim Duke's personal files.
6	ETHYL-ACETATE	Fruit				--
25	PAPAIN	Fruit				--
0	CARICACIN	Plant				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	BETA-PHELLANDRENE	Fruit				--
6	MYRISTIC-ACID	Leaf				Jim Duke's personal files.
0	PHOSPHATIDYL-GLYCEROL	Pericarp				Jim Duke's personal files.
47	BETA-SITOSTEROL	Fruit				Jim Duke's personal files.
0	DEHYDROCARPAINE-II	Leaf				Jim Duke's personal files.
0	CHYMOPAPAIN-B	Latex Exudate				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	ISOBUTYL-ACETATE	Fruit				Jim Duke's personal files.
0	TRANS-LINALOOL-OXIDE	Fruit		0.001		Jim Duke's personal files.
0	KRYPTOXANTHIN	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	N-TRITRIACONTANE	Seed Oil				Jim Duke's personal files.
9	TERPINOLENE	Fruit				--
8	FRUCTOSE	Fruit				Jim Duke's personal files.
0	N-PENTADECANE	Seed Oil				Jim Duke's personal files.
0	7-DEHYDRO-AVENASTEROL	Seed Oil				Jim Duke's personal files.
8	4-TERPINEOL	Fruit				--
2	N-HEXACOSANE	Seed Oil				Jim Duke's personal files.
0	HEPTANAL	Fruit				--
14	SUCROSE	Leaf				Jim Duke's personal files.
0	24-METHYLENE-CYCLOARTENOL	Seed Oil				Jim Duke's personal files.
18	OLEIC-ACID	Leaf				Jim Duke's personal files.
21	METHYL-SALICYLATE	Fruit				--
1	EPSILON-CAROTENE	Fruit				--
0	CARICA-PAPAYA-POLYSACCHARIDE-PP-II	Latex Exudate				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PHOSPHATIDYL-GLYCEROL	Leaf				Jim Duke's personal files.
47	BETA-SITOSTEROL	Flower				Jim Duke's personal files.
0	DEHYDROCARPAINE-I	Leaf				Jim Duke's personal files.
0	2,6-DIMETHYL-OCTA-CIS-2,7-DIENE-1,6-DIOL	Fruit Essent. Oil				Jim Duke's personal files.
0	CHYMOPAPAIN-A	Latex Exudate				--
2	NEOXANTHIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BUTYL-ACETATE	Fruit				Jim Duke's personal files.
0	CIS-LINALOOL-OXIDE	Fruit		0.007		Jim Duke's personal files.
0	KRYPTOFLAVIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-TRIDECANE	Seed Oil				Jim Duke's personal files.
0	N,N-DIMETHYL-FORMAMIDE	Fruit		1000.0		Jim Duke's personal files.
0	N-PENTACOSANE	Seed Oil				Jim Duke's personal files.
0	5-DEHYDRO-AVENASTEROL	Seed Oil				Jim Duke's personal files.
0	4-HYDROXY-4-METHYL-PENTAN-2-ONE	Fruit				--
0	HEX-2-ENOIC-ACID-METHYL-ESTER	Fruit		0.0		Jim Duke's personal files.
0	HEPTAN-2-ONE	Fruit				--
14	SUCROSE	Bark				Jim Duke's personal files.
7	CYCLOARTENOL	Seed Oil				Jim Duke's personal files.
0	PHYTOFLUENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-OCTANOATE	Fruit				--
0	CARICA-PAPAYA-POLYSACCHARIDE-PP-I	Latex Exudate				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	BETA-CAROTENE	Fruit				--
2	MYOSMINE	Leaf		1.4		Jim Duke's personal files.
16	LYCOPENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BENZYL-GLUCOSINOLATE	Latex Exudate		116000.0		Jim Duke's personal files.
47	BETA-SITOSTEROL	Seed Oil				Jim Duke's personal files.
17	CARPAIN	Fruit		200.0		Jim Duke's personal files.
0	2,6-DIMETHYL-OCTA-3,7-DIENE-2,6-DIOL	Fruit Essent. Oil				Jim Duke's personal files.
0	CHRYSANTHEMEXANTHIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	N-ACETYL-HEXOSAMIDASE	Latex Exudate				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-BUTANOL	Fruit				Jim Duke's personal files.
1	LIGNOCERIC-ACID	Seed Oil				Jim Duke's personal files.
0	TRICOSANOIC-ACID	Seed Oil				Jim Duke's personal files.
24	PECTIN	Fruit				Jim Duke's personal files.
0	LINALOOL-OXIDE-B	Fruit				--
0	3-METHYL-BUTYL-BENZOATE	Fruit				--
0	N-HEPTADECANE	Seed Oil				Jim Duke's personal files.
3	STYRENE	Fruit				Jim Duke's personal files.
0	CYCLOARTANOL	Seed Oil				Jim Duke's personal files.
0	OCTANOIC-ACID-METHYL-ESTER	Fruit		0.0		Jim Duke's personal files.
0	PHYTOENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	METHYL-HEXANOATE	Fruit				--
0	ARACHIDIC-ACID	Fruit				Jim Duke's personal files.
0	KILOCALORIES	Leaf		740.0	-3.6720692567684576	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	RESIN	Latex Exudate		28000.0	-1.5290479699508885	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
27	LINOLEIC-ACID	Seed Oil		4000.0	-1.5223259403119926	Jim Duke's personal files.
0	CARBOHYDRATES	Seed		155000.0	-1.4641051144109738	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FIBER(DIETARY)	Fruit		300000.0	-1.302068533036617	--
0	FIBER(CRUDE)	Fruit		44000.0	-1.259564822908674	--
0	TANNINS	Leaf	5000.0	6000.0	-1.136809680787192	--
14	POTASSIUM	Fruit	690.0	5110.0	-1.1330381120971724	--
0	VIT-B-6	Fruit	0.2	1.7	-1.0936771834138939	USDA's Ag Handbook 8 and sequelae)
0	DELTA-OCTALACTONE	Fruit		0.0	-1.0	Jim Duke's personal files.
20	BENZYL-ISOTHIOCYANATE	Seed	2000.0	5000.0	-1.0	Jim Duke's personal files.
0	HEXANOIC-ACID-METHYL-ESTER	Fruit		0.0	-1.0	Jim Duke's personal files.
0	METHYL-CYCLOHEXANE	Fruit		0.005	-1.0	Jim Duke's personal files.
0	PROTEIN	Fruit	4995.0	37000.0	-0.9718744540749881	--
3	ALANINE	Fruit	140.0	1253.0	-0.9646875161658541	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Fruit	10.0	179.0	-0.9599249017247726	--
14	ARGININE	Fruit	100.0	895.0	-0.9108448929638525	USDA's Ag Handbook 8 and sequelae)
0	ASH	Fruit	2970.0	22000.0	-0.8976301135791823	--
31	THIAMIN	Leaf	1.0	4.0	-0.8971070751644596	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
7	HISTIDINE	Fruit	50.0	448.0	-0.8866430953186365	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ISOLEUCINE	Fruit	80.0	716.0	-0.8775495343550369	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Fruit	90.0	806.0	-0.8738816258110772	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Seed		5389.0	-0.871660128625913	--
0	PROLINE	Fruit	100.0	895.0	-0.8544471302048274	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Fruit	110.0	985.0	-0.8449765955821991	USDA's Ag Handbook 8 and sequelae)
6	IRON	Leaf	8.0	38.0	-0.824258114808842	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	TYROSINE	Fruit	50.0	448.0	-0.8166172460051626	USDA's Ag Handbook 8 and sequelae)
1	SERINE	Fruit	150.0	1343.0	-0.8120190151666494	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Fruit	160.0	1432.0	-0.7800180381461054	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Fruit	180.0	1611.0	-0.7711938117552699	USDA's Ag Handbook 8 and sequelae)
3	ASPARTIC-ACID	Fruit	490.0	4387.0	-0.7582452723944939	USDA's Ag Handbook 8 and sequelae)
21	NICOTINE	Leaf		102.8	-0.7499661778472884	Jim Duke's personal files.
3	VALINE	Fruit	100.0	895.0	-0.7341136385803058	USDA's Ag Handbook 8 and sequelae)
9	BENZYL-ALCOHOL	Fruit		0.0	-0.7177394965097122	Jim Duke's personal files.
1	TOLUENE	Fruit		0.005	-0.707116857507301	Jim Duke's personal files.
7	LAURIC-ACID	Seed Oil		4000.0	-0.7012763853261376	Jim Duke's personal files.
4	PUFA	Fruit	310.0	2775.0	-0.6408686079046128	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Fruit	159.0	1180.0	-0.6175808503755033	--
65	MAGNESIUM	Fruit	110.0	815.0	-0.608799543813469	--
12	COPPER	Fruit	0.1	5.0	-0.6085448044834153	--
0	THIAMINE	Fruit	0.3	2.2	-0.6034288366312146	--
4	PHOSPHORUS	Fruit	170.0	1260.0	-0.5941134018186989	--
53	LINALOOL	Fruit		0.0	-0.5857755812776223	--
4	SILICON	Fruit	1.2	10.0	-0.5759531928031193	--
6	MYRISTIC-ACID	Seed Oil		4000.0	-0.5619514869490164	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EO	Seed		900.0	-0.5391224836655536	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	STEARIC-ACID	Seed Oil		50000.0	-0.5312228391740013	Jim Duke's personal files.
0	WATER	Leaf	697000.0	703000.0	-0.5220354959902203	--
1	SODIUM	Leaf	160.0	711.0	-0.521006410073194	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
6	IRON	Fruit	0.4	3.0	-0.5155879913303996	--
0	ALKALOIDS	Leaf	1300.0	1500.0	-0.5088573165279121	--
4	BORON	Fruit	5.0	15.0	-0.5018987122156774	--
4	LYSINE	Fruit	250.0	2238.0	-0.48599361292492554	USDA's Ag Handbook 8 and sequelae)
0	CAROTENOIDS	Fruit	10.0	138.0	-0.4785627182338816	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
20	CHOLINE	Leaf		200.0	-0.47726562792110133	Jim Duke's personal files.
0	FAT	Fruit	2970.0	22000.0	-0.4732178594145328	--
18	OLEIC-ACID	Fruit	180.0	1611.0	-0.4683286447061981	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Fruit	5000.0	92198.0	-0.46690178925800363	--
7	LAURIC-ACID	Fruit	10.0	90.0	-0.4444146432555388	--
0	CARBOHYDRATES	Leaf	113000.0	556000.0	-0.4441509020941317	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Fruit	0.4	3.0	-0.4303249009534089	--
39	NIACIN	Fruit	4.0	30.0	-0.41038049882634875	--
14	MANGANESE	Fruit	0.1	1.0	-0.3969436204051225	--
24	CHROMIUM	Fruit	0.1	1.0	-0.3671750908546996	--
14	SULFUR	Fruit	300.0	900.0	-0.35813249886374227	--
31	THIAMIN	Fruit	0.2	2.6	-0.34980129918184183	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Fruit	60.0	537.0	-0.347823614663473	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	PALMITIC-ACID	Fruit	320.0	2865.0	-0.320933619156033	--
7	SALICYLATES	Fruit	0.8	8.0	-0.31380232713014544	--
0	SFA	Fruit	430.0	3850.0	-0.2946275915794172	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed	12650.0	13282.0	-0.2772157419739704	--
8	STEARIC-ACID	Fruit	20.0	179.0	-0.2673505228936131	--
0	KILOCALORIES	Fruit	231.0	3491.0	-0.25752020169822265	--
0	CAOUTCHOUC	Latex Exudate		45000.0	-0.24590586593070748	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	TARTARIC-ACID	Fruit	3150.0	23333.0	-0.24237898104354536	--
6	MYRISTIC-ACID	Fruit	70.0	627.0	-0.23956447622829535	--
13	MUFA	Fruit	380.0	3402.0	-0.2044785517519125	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Leaf	18000.0	145000.0	-0.20447325046745057	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
29	TRYPTOPHAN	Fruit	40.0	716.0	-0.18868896426915321	--
1	SODIUM	Fruit	60.0	444.0	-0.14184676510350971	--
0	SUGARS	Fruit	24300.0	180000.0	-0.14120496307260672	--
15	ALPHA-LINOLENIC-ACID	Fruit	250.0	2238.0	-0.1389637310912248	USDA's Ag Handbook 8 and sequelae)
60	SELENIUM	Fruit	0.1	1.0	-0.13821084305127834	--
15	RIBOFLAVIN	Leaf	5.0	21.0	-0.07942432526480918	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
13	PALMITIC-ACID	Seed	28791.0	30107.0	-0.07839595078720965	--
0	FIXED-OIL	Seed		250000.0	-0.07337682878990565	Jim Duke's personal files.
0	FAT	Seed		253000.0	-0.06524987409706533	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
24	BENZALDEHYDE	Fruit		300.0	-0.06377099858893052	--
14	POTASSIUM	Leaf	6520.0	28978.0	-0.060322902844285126	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
39	NIACIN	Leaf	21.0	93.0	-0.05474550834730091	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	PALMITOLEIC-ACID	Fruit	200.0	1790.0	-0.01827100523355692	--
112	ASCORBIC-ACID	Fruit	640.0	4741.0	0.010292117056281466	--
13	PALMITIC-ACID	Seed Oil	162000.0	190000.0	0.05419140224469152	Jim Duke's personal files.
11	PANTOTHENIC-ACID	Fruit	2.0	19.0	0.05712424299404392	USDA's Ag Handbook 8 and sequelae)
0	ARACHIDIC-ACID	Seed Oil	5000.0	10000.0	0.12115877505042544	Jim Duke's personal files.
112	ASCORBIC-ACID	Leaf	1400.0	6222.0	0.13340221850054146	--
4	PHOSPHORUS	Leaf	1420.0	6311.0	0.24645891872875847	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Seed		170000.0	0.27811243148773734	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	BEHENIC-ACID	Seed Oil		16000.0	0.29658976365227746	Jim Duke's personal files.
28	CALCIUM	Leaf	3440.0	23800.0	0.36642881915355097	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	WATER	Fruit		865000.0	0.41056553589694156	--
15	MALIC-ACID	Fruit	3150.0	23333.0	0.567329421438877	--
0	ASH	Leaf	22000.0	154000.0	0.619270031345806	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
18	OLEIC-ACID	Seed	193545.0	202400.0	0.6847466271086402	--
0	WATER	Latex Exudate		750000.0	0.7071067811865475	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	CARBOHYDRATES	Fruit	124065.0	919000.0	0.7278946208977922	--
0	FLAVONOLS	Leaf	0.0	2000.0	1.0	--
53	BETA-CAROTENE	Leaf	116.0	514.0	1.1005033579469683	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Leaf	70000.0	326000.0	1.1388059318506265	--
2	COBALT	Fruit	2.0	14.0	1.1597144135765933	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ASH	Seed		88000.0	1.2067110962539076	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	FUMARIC-ACID	Fruit	3150.0	23333.0	1.4090927316950586	--
0	PROTEIN	Seed	243000.0	400000.0	1.478470052739822	--
0	FAT	Leaf	8000.0	136000.0	1.584934648662207	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
18	OLEIC-ACID	Seed Oil	743000.0	755000.0	2.266462351347825	Jim Duke's personal files.