

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Eriobotrya japonica

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EUSCAPHIC-ACID	Leaf		88.0	1.0	Jim Duke's personal files.
0	FAT	Seed	350000.0	450000.0	0.9724195926436688	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
14	POTASSIUM	Fruit	2600.0	27632.0	0.8595648729318401	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CARBOHYDRATES	Fruit	102000.0	919000.0	0.7278946208977922	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	ARSENIC	Leaf		0.28	0.6766860903511981	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	WATER	Fruit	865000.0	886000.0	0.5018755015736748	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
28	CALCIUM	Leaf		21900.0	0.23660629291768703	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	NITROGEN	Seed		26000.0	0.1597754541937655	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	KILOCALORIES	Fruit	400.0	3700.0	0.05991469824355707	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
53	BETA-CAROTENE	Fruit	2.6	68.0	-0.019357854301927577	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
14	MANGANESE	Leaf		224.0	-0.08749518887396016	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
1	SODIUM	Fruit	40.0	351.0	-0.1506658506572727	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	PHOSPHORUS	Fruit	140.0	2667.0	-0.16675151955051457	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	RIBOFLAVIN	Fruit	0.4	4.2	-0.17332492840658087	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
112	ASCORBIC-ACID	Fruit	10.0	840.0	-0.23226033158102166	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FAT	Fruit	2000.0	50000.0	-0.2593561116439818	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
6	IRON	Fruit	20.0	67.0	-0.26171724059735857	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
7	SALICYLATES	Fruit	2.0	20.0	-0.27939275728713464	--
0	ASH	Fruit	4000.0	44000.0	-0.327932470205319	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
28	CALCIUM	Fruit	180.0	2381.0	-0.3404376421043665	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
87	RUTIN	Leaf		10500.0	-0.35268150298219647	Jim Duke's personal files.
77	ZINC	Leaf		28.0	-0.35493160662883855	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
89	URSOLIC-ACID	Leaf	13.7	955.6	-0.39428056659544786	--
6	IRON	Leaf		200.0	-0.41363063591366483	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
31	THIAMIN	Fruit	0.2	1.8	-0.4522055324810564	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
39	NIACIN	Fruit	2.0	25.0	-0.4772218216222814	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
6	MASLINIC-ACID	Leaf	12.0	90.0	-0.5100739140245585	--
12	COPPER	Leaf		7.0	-0.568480004325441	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
47	BETA-SITOSTEROL	Fruit	20.0	150.0	-0.5971588891273873	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
1	MERCURY	Leaf		0.02	-0.6073252476761057	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
65	MAGNESIUM	Leaf		2480.0	-0.6354777022063127	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
1	SODIUM	Leaf		63.0	-0.636095668285742	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
14	POTASSIUM	Leaf		15500.0	-0.6554812506655916	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
15	FIBER	Fruit	5000.0	71000.0	-0.66693630707276	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PENTOSANS	Seed		46000.0	-0.6806406574511674	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PROTEIN	Fruit	2000.0	56000.0	-0.7171711920861981	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Seed		42900.0	-0.7254908761481202	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	AMYGDALIN	Seed		14000.0	-0.8358359394440793	--
0	ROSEOSIDE	Leaf		5.5	-1.0	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	PHYTOSTEROLS	Fruit	20.0	150.0	-1.0246670818297896	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
0	GIBBERELLIN-A-44	Seed				Jim Duke's personal files.
2	AUCUPARIN	Bark				Jim Duke's personal files.
0	NEROLIDOL-3-O-[ALPHA-L-RHAMNOPYRANOSYL-(1,2)-BETA-D-GLUCOPYRANOSIDE]	Leaf				Jim Duke's personal files.
7	SUCCINIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	CAMPESTEROL	Fruit				Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
0	GAMMA-GUANIDINOPROPIONIC-ACID	Shoot				Jim Duke's personal files.
18	OLEIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	23-TRANS-P-COUMAROYL-TORMENTIC-ACID	Leaf		20.0		Jim Duke's personal files.
0	GIBBERELLIN-METHYL-ESTER	Seed				Jim Duke's personal files.
0	GIBBERELLIN-A-35	Seed				Jim Duke's personal files.
1	L-ARGININE	Stem				Jim Duke's personal files.
27	LINOLEIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	NEROLIDOL-3-O-[ALPHA-L-RHAMNOPYRANOSYL(1,4)-ALPHA-L-RHAMNOPYRANOSYL(1,2)-[ALPHA-L-RHAMNOPYRANOSYL(1,6)]-BETA-D-GLUCOPYRA	Leaf		40.0		Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	AMYGDALIN	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
0	DL-LACTIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GAMMA-GUANIDINOBUTYRIC-ACID	Stem				Jim Duke's personal files.
64	OLEANOLIC-ACID	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
0	23-CIS-P-COUMAROYL-TORMENTIC-ACID	Leaf		7.5		Jim Duke's personal files.
0	GIBBERELLIN-GA-9	Seed				Jim Duke's personal files.
1	L-ARGININE	Shoot				Jim Duke's personal files.
1	LEVULOSE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	NEROLIDOL-3-O-ALPHA-L-RHAMNOPYRANOSYL(1,4)-ALPHA-L-RHAMNOPYRANOSYL(1,2)-[ALPHA-L-(4-TRANS-FERULOYL)-RHAMNOPYRANOSYL(1,6)	Leaf		20.0		Jim Duke's personal files.
0	GIBBERELLIN-A-29	Seed				Jim Duke's personal files.
0	AUCAPARIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	D-SORBITOL	Leaf		2000.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	GAMMA-GUANIDINOBUTYRIC-ACID	Shoot				Jim Duke's personal files.
1	TORMENTIC-ACID	Leaf				Jim Duke's personal files.
102	CAFFEIC-ACID	Plant				--
0	GIBBERELLIN-GA-50	Seed				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-ALPHA-ACETYL-L-ARGININE	Stem				Jim Duke's personal files.
0	LEUCOPELARGONIDIN-3-O-ALPHA-L-RHAMNO-BETA-D-GLUCOPYRENOSIDE	Plant				--
0	MASLINIC-ACID-METHYL-ESTER	Leaf		100.0		Jim Duke's personal files.
0	GIBBERELLIN-A-20	Seed				Jim Duke's personal files.
0	VOMIFOLIOL-9-O-BETA-D-APIOFURANOSYL-(1,6)-BETA-D-GLUCOPYRANOSIDE	Leaf		5.2		Jim Duke's personal files.
0	D-(+)-TARTARIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GAMMA-GUANIDINOBUTRAMIDE	Stem				Jim Duke's personal files.
0	DEHYDRO-GIBBERELLIN-GA-35	Seed				Jim Duke's personal files.
0	N-ALPHA-ACETYL-L-ARGININE	Shoot				Jim Duke's personal files.
0	GIBBERELLIN-A-19	Seed				Jim Duke's personal files.
176	QUERCETIN	Plant				--
0	2ALPHA-HYDROXYURSOLIC-ACID	Leaf		12.1		Jim Duke's personal files.
7	CYANIDIN	Plant				--
0	GAMMA-GUANIDINOBUTRAMIDE	Shoot				Jim Duke's personal files.
0	NEO-BETA-CAROTENE-U	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	3-O-TRANS-P-COUMAROYL-ROTUNDIC-ACID	Leaf		9.0		Jim Duke's personal files.
24	BENZALDEHYDE	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
0	GIBBERELLIN-GA-35	Seed				Jim Duke's personal files.
0	GIBBERELLIN-A-9	Seed				Jim Duke's personal files.
75	KAEMPFEROL	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LOQUATOSIDE	Pericarp				Jim Duke's personal files.
0	GIBBERELLIN-A-15	Seed				Jim Duke's personal files.
0	3BETA,6BETA,19ALPHA-TRIHYDROXY-URS-12-EN-28-OIC-ACID	Leaf		5.0		Jim Duke's personal files.
2	CRYPTOXANTHIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GUANIDINOACETIC-ACID	Stem				Jim Duke's personal files.
0	DEHYDRO-GIBBERELLIN-GA-25	Seed				Jim Duke's personal files.
0	1-BETA-HYDROXY-EUSCAPHIC-ACID	Leaf				Jim Duke's personal files.
0	NEO-BETA-CAROTENE-B	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LOQUATIFOLIN-A	Leaf		800.0		Jim Duke's personal files.
0	3-BETA-6-ALPHA-19-ALPHA-TRIHYDROXY-URS-12-EN-28-OIC-ACID	Leaf		13.6		Jim Duke's personal files.
0	GUANIDINOACETIC-ACID	Shoot				Jim Duke's personal files.
0	NEROLIDOL-3-O-[ALPHA-L-RHAMNOPYRANOSYL-(1,2)-D-GLUCOPYRANOSIDE]	Leaf		7.5		Jim Duke's personal files.
0	ASCORBIC-ACID-OXIDASE	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	GIBBERELLIN-GA-24	Seed				Jim Duke's personal files.
0	NEO-BETA-CAROTENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
30	HYPEROSIDE	Shoot				Jim Duke's personal files.
0	3,6,19-TRIHYDROXY-URS-12-EN-28-OIC-ACID	Leaf		25.0		Jim Duke's personal files.
23	CITRIC-ACID	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	METHYL-GUANIDINE	Stem				Jim Duke's personal files.
0	GIBBERELLIN-GA-15	Seed				Jim Duke's personal files.
0	CREATINE	Stem				Jim Duke's personal files.
0	NEROLIDOL-3-O-[ALPHA-L-RHAMNOPYRANOSYL-(1,4)-ALPHA-L-RHAMNOPYRANOSYL-(1,2)-BETA-D-GLUCOPYRANOSIDE]	Leaf		37.0		Jim Duke's personal files.
0	GUANIDINOSUCCINIC-ACID	Stem				Jim Duke's personal files.
0	2-ALPHA-3-BETA-19-ALPHA-23-TETRAHYDROXY-URS-12-EN-28-OIC-ACID	Leaf		25.0		Jim Duke's personal files.
0	CERYL-PALMITATE	Seed		600.0		--
0	METHYL-GUANIDINE	Shoot				Jim Duke's personal files.
0	GIBBERELLIN-A-61	Seed				Jim Duke's personal files.
0	CREATINE	Shoot				Jim Duke's personal files.
0	NEROLIDOL-3-O-[ALPHA-L-RHAMNOPYRANOSYL-(1,4)-ALPHA-L-RHAMNOPYRANOSYL-(1,6)-BETA-D-GLUCOPYRANOSIDE]	Leaf		36.0		Jim Duke's personal files.
35	TANNIN	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
0	GUANIDINOSUCCINIC-ACID	Shoot				Jim Duke's personal files.
0	2-ALPHA-3-ALPHA-19-ALPHA-TRIHYDROXY-URS-12-EN-28-OIC-ACID	Leaf		5.0		Jim Duke's personal files.
0	CERYL-ALCOHOL	Seed		200.0		--
6	GUANIDINE	Stem				Jim Duke's personal files.
0	ARACHIDIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	GIBBERELLIN-A50	Seed				Jim Duke's personal files.
7	ALPHA-CAROTENE	Fruit				Jim Duke's personal files.



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	MALIC-ACID	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
0	NEROLIDOL-3-O-(ALPHA-L-RHAMNOPYRANOSYL-(1,4)-ALPHA-L-RHAMNOPYRANOSYL-(1,2)-[ALPHA-L-RHAMNOPYRANOSYL-(1,6)]-BETA-D-GLUCOP	Leaf				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.
0	GAMMA-GUANIDINOPROPIONIC-ACID	Stem				Jim Duke's personal files.
13	PALMITIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	3-O-TRANS-CAFFEOYL-TORMENTIC-ACID	Leaf		15.0		Jim Duke's personal files.
6	GUANIDINE	Shoot				Jim Duke's personal files.