

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Capsicum annum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	1,1-DIETHOXY-2-METHYLPROPANE	Fruit				--
0	1,1-DIETHOXY-3-METHYLBUTANE	Fruit				--
0	1-HEXANOL	Fruit				--
0	1-HYDROXY-PROPAN-2-ONE	Fruit				--
0	1-METHYLPYRROLE-KETONE	Fruit				--
0	1-O-CAFFELOYL-BETA-D-GLUCOSE	Fruit				--
0	1-O-FERRULOYL-BETA-D-GLUCOSE	Fruit				--
0	13-CIS-CAPSANTHIN	Fruit	0.0	205.0		--
0	13-CIS-ZEAXANTHIN	Fruit	2.0	43.0		--
0	15-CIS-ZEAXANTHIN	Fruit	0.0	9.0		--
0	2,3,5-TRIMETHYLPYRAZINE	Fruit				--
0	2,3-BUTANEDIOL	Fruit				--
0	2,3-DIMETHYL-5-ETHYLPYRAZINE	Fruit				--
0	2,3-DIMETHYL-PYRAZINE	Fruit				--
0	2-BUTANONE	Fruit				--
0	2-HEXANOL	Fruit				--
0	2-HEXANONE	Fruit				--
0	2-HYDROXY-3-METHYL-CYCLOPENT-2-EN-1-ONE	Fruit				--
0	2-METHOXY-3-ISOBUTYL-PYRAZINE	Fruit				--
0	2-METHYL-5-ETHYLPYRAZINE	Fruit				--
0	2-METHYL-BUTAN-1-OL	Fruit				--
0	2-METHYL-BUTAN-2-OL	Fruit				--
0	2-METHYL-BUTANAL	Fruit				--
0	2-METHYL-BUTYRIC-ACID	Fruit				--
0	2-METHYL-PENTAN-2-OL	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2-METHYL-PROPANAL	Fruit				--
0	2-METHYL-PROPIONIC-ACID	Fruit				--
0	2-PENTYL-FURAN	Fruit				--
0	2-PENTYLPYRIDINE	Fruit				--
0	24-(R)-ETHYL-LOPHENOL	Seed				--
0	24-DIHYDROLANOSTEROL	Seed				--
0	24-METHYL-LANOST-9(11)-EN-3-BETA-OL	Seed				--
0	24-METHYL-LOPHENOL	Seed				--
5	24-METHYLENE-CYCLOARTANOL	Seed				--
0	3'-O-MYRISTOYL-CAPSANTHIN	Fruit				--
0	3,6-EPOXIDE-5-HYDROXY-5,6-DIHYDRO-ZEAXANTHIN	Fruit				--
0	3-(SEC-BUTYL)-2-METHOXYPIRAZINE	Fruit				--
0	3-HEXANOL	Fruit				--
0	3-HYDROXY-ALPHA-CAROTENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	3-ISOBUTYL-2-METHOXYPIRAZINE	Fruit				--
0	3-ISOPROPYL-2-METHOXYPIRAZINE	Fruit				--
0	3-METHYL-1-PENTYL-3-METHYL-BUTYRATE	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	3-METHYL-BUTANAL	Fruit				--
0	3-METHYL-BUTYRIC-ACID	Fruit				--
0	3-METHYL-CYCLOPENT-2-EN-1-ONE	Fruit				--
0	3-METHYL-PENTAN-3-OL	Fruit				--
0	31-NOR-LANOST-8-EN-3-BETA-OL	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	31-NOR-LANOST-9(11)-EN-3-BETA-OL	Seed				--
0	31-NOR-LANOSTEROL	Seed				--
0	31-NORCYCLOARTANOL	Seed				--
0	4-ALPHA-14-ALPHA-24-TRIMETHYL-CHOLESTA-8(24)-DIEN-3-BETA-OL	Seed				--
0	4-ALPHA-24-DIMETHYL-CHOLESTA-7,24-DIEN-3-BETA-OL	Seed				--
0	4-ALPHA-METHYL-24-ETHYL-CHOLESTA-7,24-DIEN-3-BETA-OL	Seed				--
0	4-ALPHA-METHYL-5-ALPHA-CHOLEST-8(14)-EN-3-BETA-OL	Seed				--
0	4-ETHYL-GUAIACOL	Fruit				--
0	4-METHYL-1-PENTYL-2-METHYL-BUTYRATE	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	4-METHYL-3-PENTEN-2-ONE	Fruit				--
0	4-METHYL-GUAIACOL	Fruit				--
0	4-METHYL-HEPTADECANE	Fruit				--
0	4-METHYL-HEXADECANE	Fruit				--
0	4-METHYL-PENTANOIC-ACID	Fruit				--
0	4-METHYLPENTADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	4-METHYLTETRADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	4-METHYLTRIDECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	5,6-DIHYDROXY-5,6-DIHYDRO-ZEAXANTHIN	Fruit				--
0	5-ALPHA-CHOLEST-8(14)-EN-3-BETA-OL	Seed				--
0	5-HYDROXY-CAPSANTHIN-3,6-EPOXIDE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5-HYDROXY-CAPSANTHIN-5,6-EPOXIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	5-HYDROXYCAPSANTHIN	Fruit				Jim Duke's personal files.
0	5-METHYL-2-FURFURAL	Fruit				--
0	5-METHYL-FURFURAL	Fruit				--
0	9-CIS-CAPSANTHIN	Fruit	0.5	140.0		--
0	9-CIS-ZEAXANTHIN	Fruit	2.0	32.0		--
16	ACETIC-ACID	Fruit				--
0	ACETOIN	Fruit				--
19	ACETYL-CHOLINE	Seed		105.0	0.5835650056778248	--
19	ACETYL-CHOLINE	Pericarp		15.0	-1.0	--
0	ACETYLFURAN	Fruit				--
3	ALANINE	Fruit	350.0	4774.0	0.41916448807939843	--
7	ALPHA-CAROTENE	Fruit	0.2	20.0	2.436266539567189	--
0	ALPHA-COPAENE	Fruit				--
2	ALPHA-CRYPTOXANTHIN	Fruit	1.0	25.0		--
2	ALPHA-CRYPTOXANTHIN	Plant				--
15	ALPHA-LINOLENIC-ACID	Fruit	220.0	3001.0	0.20656945687815753	USDA's Ag Handbook 8 and sequelae)
11	ALPHA-PHELLANDRENE	Fruit				--
28	ALPHA-PINENE	Fruit				--
23	ALPHA-TERPINEOL	Fruit				--
0	ALPHA-THUJENE	Fruit				--
32	ALPHA-TOCOPHEROL	Fruit	22.0	284.0	3.249804110897653	--
5	ALUMINUM	Fruit				--
0	AMMONIA	Fruit		382.0	1.0	--
0	AMMONIA(NH3)	Fruit		382.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	ANTHERAXANTHIN	Fruit	0.5	165.0		--
4	APIIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ARACHIDIC-ACID	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
14	ARGININE	Fruit	410.0	5592.0	0.34202092362066183	USDA's Ag Handbook 8 and sequelae)
2	ARSENIC	Fruit	0.004	0.015	-0.5177009203400424	--
112	ASCORBIC-ACID	Fruit	230.0	20982.0	1.0201086559741077	--
0	ASH	Fruit	13416.0	52000.0	-0.12076969079664142	--
2	ASPARAGINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	ASPARTIC-ACID	Fruit	1200.0	16504.0	0.8336382798513058	--
0	AUROCHROME	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	AUROXANTHIN-1	Fruit	0.0	0.5		--
0	AUROXANTHIN-2	Fruit	0.0	0.5		--
0	BARIUM	Fruit	2.0	8.0	-0.8930759463364307	--
1	BEHENIC-ACID	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
24	BENZALDEHYDE	Fruit				--
9	BETA-AMYRIN	Seed				--
0	BETA-APO-8'-CAROTENAL	Fruit				--
53	BETA-CAROTENE	Fruit	25.0	95.0	0.032832659233001486	--
0	BETA-CAROTENE-EPOXIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	BETA-CRYPTOXANTHIN	Fruit	1.0	510.0	1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Fruit				--
47	BETA-SITOSTEROL	Plant				--
47	BETA-SITOSTEROL	Fruit	60.0	1190.0	0.7692772928142692	--
14	BETAINE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
4	BORON	Fruit	1.0	74.0	0.6859947425378856	--
0	BROMINE	Fruit	0.1	111.0	3.331516857208814	ACTA AGRIC SCAND SUPPL 22: 1980
0	BUTANAL-2-METHYL	Fruit				--
0	BUTANAL-3-METHYL	Fruit				--
0	BUTANE-1,3-DIOL	Fruit				--
0	BUTANE-2,3-DIOL	Fruit				--
3	CADMIUM	Fruit	0.005	0.33	0.32622088213907097	--
102	CAFFEIC-ACID	Fruit		11.0	-0.3368770543074836	--
28	CALCIUM	Fruit	431.0	1670.0	-0.5045082674838655	--
2	CAMPESTEROL	Fruit	20.0	530.0	3.841640034312409	--
9	CAMPHENE	Fruit				--
44	CAPSAICIN	Tissue Culture		590.0		--
44	CAPSAICIN	Fruit	100.0	4000.0	-1.0	--
44	CAPSAICIN	Resin, Exudate, Sap		634000.0		--
2	CAPSANTHIN	Fruit	1.0	2820.0		--
0	CAPSANTHIN-3,6-EPOXIDE	Fruit	0.0	165.0		--
0	CAPSANTHIN-5,6-EPOXIDE	Fruit	0.0	185.0		--
0	CAPSANTHONE	Fruit	0.0	45.0		--
0	CAPSIAMIDE	Fruit	20.0	200.0		Chemical Constituents of Oriental Herbs (3 diff. books)
0	CAPSIAMIDE	Plant				--
1	CAPSIANOSIDE-A	Fruit	33.0	250.0		--
0	CAPSIANOSIDE-B	Fruit	2.0	18.0		--
1	CAPSIANOSIDE-C	Fruit	35.0	103.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	CAPSIANOSIDE-D	Fruit	21.0	38.0		--
0	CAPSIANOSIDE-E	Fruit				--
0	CAPSIANOSIDE-F	Fruit				--
1	CAPSIANOSIDE-I	Fruit		18.0		--
0	CAPSIANOSIDE-II	Fruit				--
0	CAPSIANOSIDE-III	Fruit				--
0	CAPSIANOSIDE-IV	Fruit		9.0		--
0	CAPSIANOSIDE-V	Fruit		2.0		--
0	CAPSIANOSIDE-A	Fruit		300.0		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	CAPSICOSIDE	Seed				--
0	CAPSICOSIDE	Plant				--
0	CAPSICOSIDE	Leaf				--
0	CAPSICOSIDE A-2	Root				--
0	CAPSICOSIDE A-3	Root				--
0	CAPSICOSIDE B-2	Root				--
0	CAPSICOSIDE C-2	Root				--
0	CAPSICOSIDE C-3	Root				--
0	CAPSICOSIDE E	Root				--
0	CAPSICOSIDE-A-1	Root		530.0		--
0	CAPSICOSIDE-B-1	Root		620.0		--
0	CAPSICOSIDE-C-1	Root		600.0		--
0	CAPSICOSIN	Plant				--
3	CAPSIDIOL	Tissue Culture				--
3	CAPSIDIOL	Fruit		29.0		--
0	CAPSOCHROME	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CAPSOLUTEIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CAPSORUBIN	Fruit	0.0	260.0		--
0	CARBOHYDRATES	Fruit	175956.0	682000.0	-0.539466174742496	--
0	CARNAUBIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CAROTENOIDS	Fruit	115.0	9945.0	1.9104197137381895	--
31	CARYOPHYLENE	Fruit				--
77	CHLOROGENIC-ACID	Leaf				--
77	CHLOROGENIC-ACID	Fruit				--
21	CHLOROPHYLL	Fruit	0.0	195.0	0.22124854097919466	--
20	CHOLINE	Seed		360.0	-1.2352144104006983	--
20	CHOLINE	Pericarp		297.0	-1.0	--
24	CHROMIUM	Fruit		0.0	-0.5076332138804538	--
18	CINNAMIC-ACID	Tissue Culture				--
0	CIS-13'-CAPSANTHIN	Fruit				--
0	CIS-9'-CAPSANTHIN	Fruit				--
0	CIS-9,10-DIHYDRO-CAPSENONE	Tissue Culture		1.0		--
0	CIS-BETA-CAROTENE	Fruit	1.0	60.0		--
0	CIS-CRYPTOXANTHIN	Fruit	0.0	65.0		--
23	CITRIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CITROSTADIENOL	Seed				--
0	CITROXANTHIN	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	CITRULLIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	COBALT	Fruit	4.0	15.1	1.2928795988960315	--
12	COPPER	Fruit	0.5	20.0	0.5588968590110831	--
0	CRYPTOCAPSIN	Fruit	0.2	75.0		--
2	CRYPTOXANTHIN	Fruit				--
0	CUCURBITACHROME	Fruit	0.0	400.0		--
0	CUCURBITAXANTHIN-A	Fruit	1.0	610.0		--
0	CUCURBITAXANTHIN-B	Fruit	0.0	110.0		--
0	CYCLOARTANOL	Seed				--
7	CYCLOARTENOL	Seed				--
3	CYCLOEUCALENOL	Seed				--
0	CYCLOHEXANONE	Fruit				--
0	CYCLOPENTANOL	Fruit				--
0	CYCLOVIOLAXANTHIN	Fruit	0.0	70.0		--
3	CYNAROSIDE	Leaf				--
2	CYSTINE	Fruit	160.0	2182.0	1.2003774411002974	USDA's Ag Handbook 8 and sequelae)
0	DECANOIC-ACID-VANILLYLAMIDE	Fruit	1.0	68.0		USDA's Ag Handbook 8 and sequelae)
0	DEHYDROASCORBIC-ACID	Fruit		20000.0	1.725773620676355	--
8	DELTA-3-CARENE	Fruit				--
0	DI-N-PROPYL-AMINE	Fruit		0.3		--
1	DIHYDROCAPSAICIN	Fruit	75.0	1628.0		--
1	DIHYDROCAPSAICIN	Tissue Culture				--
1	DIHYDROCAPSAICIN	Resin, Exudate, Sap		318000.0		--
0	DIMETHOXY-BENZYL METHYLOCTAMIDE	Resin, Exudate, Sap				--
0	DIN-N-PROPYL-AMINE	Fruit		0.3		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EO	Fruit	1290.0	5000.0	-0.7227768403857732	--
1	EPSILON-CAROTENE	Fruit				--
0	ERIODICTIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ETHYL-3-METHYLBUTYRATE	Fruit				--
6	ETHYL-ACETATE	Fruit				--
76	EUGENOL	Fruit				--
0	FAT	Seed	100000.0	150000.0	-0.6077877171137942	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FAT	Fruit	2000.0	144000.0	0.4586083273000108	--
15	FIBER	Fruit	12000.0	351000.0	1.975278288083942	--
0	FIBER(CRUDE)	Fruit		258000.0	1.530775468007022	--
0	FIBER(DIETARY)	Fruit		482000.0	1.7052471143322203	--
0	FLUORINE	Fruit	0.05	1.0	-0.3491724883530834	ACTA AGRIC SCAND SUPPL 22: 1980
15	FOLACIN	Fruit	0.0	3.0	0.3894543457310426	USDA's Ag Handbook 8 and sequelae)
0	FOLIAXANTHIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FUNKIOSIDE	Root				--
0	FUNKIOSIDE C	Root				--
0	GALACTOSAMINE	Fruit				--
1	GALACTOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GAMMA-BUTYROLACTONE	Fruit				--
11	GAMMA-TERPINENE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	GLUCOSAMINE	Fruit				--
7	GLUCOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	GLUTAMIC-ACID	Fruit	1120.0	15277.0	0.15870222657295222	USDA's Ag Handbook 8 and sequelae)
0	GLUTAMINASE	Fruit				--
12	GLYCINE	Fruit	310.0	4228.0	0.24116126345948113	--
0	GRAMISTEROL	Seed				--
0	GROSSAMIDE	Root		3.0		--
18	GUAIACOL	Fruit				--
0	HENEICOSANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	HEPTADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
31	HESPERIDIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEXADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	HEXAN-1-AL	Fruit				--
5	HEXANAL	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
2	HEXANOIC-ACID	Fruit				--
7	HISTIDINE	Fruit	170.0	2319.0	0.4251522813518472	--
0	HOMOCAPSAICIN	Resin, Exudate, Sap		3000.0		--
0	HOMOCAPSAICIN	Fruit	2.0	90.0		--
0	HOMODIHYDROCAPSAICIN	Fruit	2.0	90.0		--
0	HOMODIHYDROCAPSAICIN	Resin, Exudate, Sap				--
0	HYDROXY-ALPHA-CAROTENE	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	HYDROXY-BENZOIC-ACID-4-BETA-D-GLUCOSIDE	Fruit				--
6	IRON	Fruit	4.0	14.0	-0.47195395604815815	--
0	ISOHEXYL-ISOCAPROATE	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
3	ISOLEUCINE	Fruit	270.0	3683.0	0.013574129648896245	USDA's Ag Handbook 8 and sequelae)
0	KARPOXANTHIN	Fruit	0.5	150.0		--
4	L-ASPARAGINASE	Fruit				--
0	L-ASPARIGINASE	Fruit				--
0	LANOST-8-EN-3-BETA-OL	Seed				--
0	LANOSTENOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
1	LANOSTEROL	Seed				--
0	LATOXANTHIN	Fruit	1.0	25.0		--
0	LEAD	Fruit	0.004	2.0	-0.3720390542711243	--
2	LEUCINE	Fruit	440.0	6002.0	0.19151009080138937	USDA's Ag Handbook 8 and sequelae)
3	LIGUSTRAZINE	Fruit				--
60	LIMONENE	Fruit				--
0	LINALOL	Fruit				--
53	LINALOOL	Fruit				--
27	LINOLEIC-ACID	Fruit	2190.0	29871.0	0.06603462603214637	--
0	LINOLENIC-ACID	Fruit				--
11	LITHIUM	Fruit	0.284	0.4	-0.5556718414322324	--
0	LOPHENOL	Seed				--
21	LUPEOL	Seed				--
15	LUTEIN	Fruit	0.0	50.0	3.485553704728424	--
78	LUTEOLIN	Fruit		11.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LUTEOLIN-7-O-BETA-APIOGLUCOSIDE	Leaf				--
0	LUTEOLIN-7-O-BETA-D-DIGLUCOSIDE	Leaf				--
0	LUTEOLIN-7-O-BETA-D-GLUCOSIDE	Leaf				--
0	LUTEOLIN-7-O-BETA-DIGLUCOSIDE	Leaf				--
0	LUTEOXANTHIN-1	Fruit	2.0	40.0		--
0	LUTEOXANTHIN-2	Fruit	7.0	110.0		--
4	LYSINE	Fruit	380.0	5183.0	0.27674261896008856	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Fruit	604.0	2340.0	0.0973640583480707	--
1	MALONIC-ACID	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	MALONIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
11	MALTOL	Fruit				--
14	MANGANESE	Fruit	0.4	1.4	-0.39430607258501055	--
0	MARGARIC-ACID	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
1	MERCURY	Fruit	0.001	0.001	-0.7865389313824043	--
15	METHIONINE	Fruit	100.0	1364.0	0.49932054232266115	USDA's Ag Handbook 8 and sequelae)
2	MOLYBDENUM	Fruit	0.0	15.0	2.521090498809608	--
0	MUTATOXANTHIN-1	Fruit	0.0	40.0		--
0	MUTATOXANTHIN-2	Fruit	0.5	295.0		--
22	MYRCENE	Fruit				--
34	MYRICETIN	Fruit		1.0	-0.6882411791853533	--
6	MYRISTIC-ACID	Fruit	10.0	136.0	-0.262727790139001	--
0	N-(13-METHYLTETRADECYL)ACETAMIDE	Fruit	300.0	400.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-CIS-FERULOYL-TYRAMINE	Root		2.0		--
0	N-HEXANAL	Fruit				--
0	N-METHYL-ANILINE	Fruit		13.1		--
0	N-NITROSO-DIMETHYLAMINE	Fruit				--
0	N-NITROSO-PYRROLIDINE	Fruit				--
0	N-PENTYL-AMINE	Fruit		3.0	0.9999999999999997	--
0	N-PROPYL-AMINE	Fruit		2.3		--
0	N-TRANS-FERULOYL-OCTOPAMINE	Root	1.0	2.0		--
0	N-TRANS-FERULOYL-TYRAMINE	Root		12.0		--
0	N-TRANS-P-COUMAROYL-OCTOPAMINE	Root		1.0		--
0	N-TRANS-P-COUMAROYL-TYRAMINE	Root		2.0		--
0	N-VANILLYL-N-NONAMIDE	Resin, Exudate, Sap				--
1	NAPHTHALENE	Fruit				--
0	NEO-BETA-CAROTENE	Plant				--
2	NEOXANTHIN	Fruit	0.0	18.0	1.0	--
0	NH3	Fruit		382.0		--
39	NIACIN	Fruit	21.0	80.0	0.25803272913297753	--
3	NICKEL	Fruit	0.05	5.5	0.893202335058218	--
0	NITROGEN	Fruit	1900.0	23330.0	0.6105662880376689	ACTA AGRIC SCAND SUPPL 22: 1980
0	NONADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	NONANOIC-ACID-VANILLYLAMIDE	Fruit	2.0	45.0		--
0	NONIVAMIDE	Resin, Exudate, Sap				--
0	NORCAPSAICINE	Fruit				--
0	NORDIHYDROCAPSAICIN	Resin, Exudate, Sap		31000.0		--
0	NORDIHYDROCAPSAICIN	Fruit	15.0	335.0		--
6	O-CRESOL	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	OBTUSIFOLIOL	Seed				--
0	OCTANE	Fruit				--
5	OCTANOIC-ACID	Fruit				--
18	OLEIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
18	OLEIC-ACID	Fruit	270.0	3582.0	-0.4531374874534312	--
9	OXALIC-ACID	Fruit	257.0	1171.0	-0.24177730392475322	Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
0	P-AMINO-BENZALDEHYDE	Root		6.0		--
25	P-COUMARIC-ACID	Fruit		79.0	-0.3401508451648206	--
8	P-CRESOL	Fruit				--
16	P-CYMENE	Fruit				--
0	P-XYLENE	Fruit				--
13	PALMITIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	PALMITIC-ACID	Fruit	500.0	6820.0	-0.2593626333971022	--
2	PALMITOLEIC-ACID	Fruit	30.0	409.0	-0.27067772308159505	USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Fruit	0.0	5.0	-0.8358850147292255	USDA's Ag Handbook 8 and sequelae)
0	PENTADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
1	PENTADECANOIC-ACID	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
26	PHENOL	Fruit				--
7	PHENYLALANINE	Fruit	260.0	3546.0	0.07637278495697446	USDA's Ag Handbook 8 and sequelae)
0	PHOSPHATIDYL-GLYCEROL	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PHOSPHATIDYL-GLYCEROL	Leaf				--
0	PHOSPHODIESTERASE	Tissue Culture				--
4	PHOSPHORUS	Fruit	784.0	3040.0	-0.053456578480128816	--
5	PHYLLOQUINONE	Fruit	0.02	0.06	-0.22359887323159108	--
0	PHYTOENE	Fruit				--
0	PHYTOFLUENE	Fruit				--
2	PHYTOSTEROLS	Fruit	90.0	1750.0	1.0365836878419545	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
10	PIPERIDINE	Fruit		5.2	-1.4134560119817663	--
0	PORPHOBILINOGEN-OXYGENASE	Leaf				--
14	POTASSIUM	Fruit	3483.0	13500.0	-0.3907443973119217	--
0	PROLINE	Fruit	370.0	5047.0	0.28544185332563193	--
6	PROPIONIC-ACID	Fruit				--
0	PROTEIN	Fruit	35862.0	139000.0	0.3954798997595693	--
28	PULEGONE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
3	PYRIDINE	Fruit				--
1	PYRROLIDINE	Fruit		1.4		--
15	RIBOFLAVIN	Fruit	0.0	19.0	2.9963413996709614	--
6	RISHITIN	Tissue Culture				--
0	RUBIDIUM	Fruit	0.38	10.0	-0.6798204139542442	ACTA AGRIC SCAND SUPPL 22: 1980
1	RUBIXANTHIN	Fruit				--
87	RUTIN	Fruit		3874.0	-0.21269509917042856	Varnaite, R. 1988. Rutin Content in Capsicum, Capsella, Urtica, Primula, Lepidium, Lactuca, Brassica, Anethum, Beta, Petroselinum, Allium Genera Representatives. Liet Tsr Mokslu Akad Darb Ser C, 4: 29-32.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SABINENE	Fruit				--
7	SALICYLATES	Fruit	6.0	100.0	-0.04999562500039605	--
44	SCOPOLETIN	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
60	SELENIUM	Fruit	0.001	0.002	-0.38569128420884563	--
1	SERINE	Fruit	340.0	4638.0	0.351286486996007	--
4	SILICON	Fruit				--
3	SILVER	Fruit	0.071	0.1	-0.45980626251045253	--
0	SKATOLE-PYRROLO-OXYGENASE	Leaf				--
1	SODIUM	Fruit	152.0	590.0	-0.12800174907287107	--
5	SOLANIDINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
26	SOLANINE	Leaf		500.0	-1.0	--
26	SOLANINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
18	SOLASODINE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	STEARIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	STEARIC-ACID	Fruit	160.0	2180.0	-0.1346481609392678	USDA's Ag Handbook 8 and sequelae)
12	STIGMASTEROL	Fruit	10.0	180.0	1.3242602946608402	--
0	STRONTIUM	Fruit	2.0	12.0	-0.9119954010869392	--
0	SUGARS	Fruit	18060.0	70000.0	-0.5952549612598248	--
0	SULFOQUINOVOSYL-DIACYL-GLYCEROL	Fruit				--
0	SULFOQUINOVOSYL-DIACYL-GLYCEROL	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	SULFUR	Fruit	190.0	2440.0	0.7136799213892123	--
23	TERPINEN-4-OL	Fruit				--
9	TERPINOLENE	Fruit				--
0	TETRADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
22	TETRAMETHYL-PYRAZINE	Fruit				--
31	THIAMIN	Fruit	1.0	15.0	1.237464316955986	USDA's Ag Handbook 8 and sequelae)
0	THIAMINE	Fruit	1.0	4.2	0.35249803327962026	--
4	THREONINE	Fruit	310.0	4228.0	0.5031132526815597	--
4	TIN	Fruit	1.3	5.0	-0.3575360694452028	--
0	TITANIUM	Fruit	0.355	16.0	-0.39196677622477016	--
93	TOCOPHEROL	Fruit		24.0	-0.48930868112103443	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	TOLUENE	Fruit				--
15	TRIGONELLINE	Seed		0.6	-0.46893261236098505	--
29	TRYPTOPHAN	Fruit	110.0	1500.0	0.911613449940336	USDA's Ag Handbook 8 and sequelae)
0	TRYPTOPHAN-PYRROLO-OXYGENASE	Leaf				--
8	TYROSINE	Fruit	180.0	2455.0	0.01503141767564613	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Fruit	360.0	4910.0	0.09429171805261376	--
0	VANILLIC-ACID-4-BETA-D-GLUCOSIDE	Fruit				--
0	VANILLOYL-GLUCOSE	Fruit				--
0	VANILLYL-CAPROYLAMIDE	Fruit				--
0	VANILLYL-DECANAMIDE	Fruit				--
0	VANILLYL-OCTANAMIDE	Fruit				--
2	VIOLAXANTHIN	Fruit	2.0	205.0		--
0	VIT-B-6	Fruit	2.0	22.0	2.3189606682135615	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	WATER	Fruit	742000.0	937000.0	0.7236282753600269	--
3	XANTHOPHYLL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	XANTHOPHYLL-EPOXIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	XYLOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	ZEAXANTHIN	Fruit	1.4	1525.0	1.0	--
0	ZETA-CAROTENE	Fruit				--
77	ZINC	Fruit	2.0	7.7	-0.6799873909506287	--
0	ZIRCONIUM	Fruit	1.4	2.0	-0.33411717815403996	--