

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Capsicum annum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LUTEOXANTHIN-2	Fruit	7.0	110.0		--
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	2-HEXANONE	Fruit				--
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	CUCURBITACHROME	Fruit	0.0	400.0		--
0	HEPTADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	5-HYDROXYCAPSANTHIN	Fruit				Jim Duke's personal files.
0	LUTEOLIN-7-O-BETA-D-DIGLUCOSIDE	Leaf				--
0	SKATOLE-PYRROLO-OXYGENASE	Leaf				--
0	THIAMINE	Fruit	1.0	4.2	0.35249803327962026	--
0	GALACTOSAMINE	Fruit				--
0	CAPSICOSIDE B-2	Root				--
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	CYCLOPENTANOL	Fruit				--
0	CAPSIANOSIDE-IV	Fruit		9.0		--
0	HYDROXY-BENZOIC-ACID-4-BETA-D-GLUCOSIDE	Fruit				--
0	PROLINE	Fruit	370.0	5047.0	0.28544185332563193	--
0	LINOLENIC-ACID	Fruit				--
0	EO	Fruit	1290.0	5000.0	-0.7227768403857732	--
0	WATER	Fruit	742000.0	937000.0	0.7236282753600269	--
0	ACETOIN	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5-METHYL-2-FURFURAL	Fruit				--
0	2-PENTYLPYRIDINE	Fruit				--
0	CAPSANTHIN-5,6-EPOXIDE	Fruit	0.0	185.0		--
0	N-HEXANAL	Fruit				--
0	LUTEOXANTHIN-1	Fruit	2.0	40.0		--
0	4-ALPHA-METHYL-5-ALPHA-CHOLEST-8(14)-EN-3-BETA-OL	Seed				--
0	2-HEXANOL	Fruit				--
0	CARBOHYDRATES	Fruit	175956.0	682000.0	-0.539466174742496	--
0	SULFOQUINOVOSYL-DIACYL-GLYCEROL	Fruit				--
0	CIS-BETA-CAROTENE	Fruit	1.0	60.0		--
0	HENEICOSANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PENTADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	HOMOCAPSAICIN	Resin, Exudate, Sap		3000.0		--
0	1,1-DIETHOXY-3-METHYLBUTANE	Fruit				--
0	LINALOL	Fruit				--
0	SUGARS	Fruit	18060.0	70000.0	-0.5952549612598248	--
0	FUNKIOSIDE	Root				--
0	CAPSICOSIDE A-3	Root				--
0	3-ISOPROPYL-2-METHOXYPIRAZINE	Fruit				--
0	CYCLOHEXANONE	Fruit				--
0	CAPSIANOSIDE-III	Fruit				--
0	ASH	Fruit	13416.0	52000.0	-0.12076969079664142	--
0	24-DIHYDROLANOSTEROL	Seed				--
0	DIN-N-PROPYL-AMINE	Fruit		0.3		--
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	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	2-PENTYL-FURAN	Fruit				--
0	N-CIS-FERULOYL-TYRAMINE	Root		2.0		--
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.
0	2-BUTANONE	Fruit				--
0	STRONTIUM	Fruit	2.0	12.0	-0.9119954010869392	--
0	CIS-CRYPTOXANTHIN	Fruit	0.0	65.0		--
0	GROSSAMIDE	Root		3.0		--
0	NORDIHYDROCAPSAICIN	Resin, Exudate, Sap		31000.0		--
0	LATOXANTHIN	Fruit	1.0	25.0		--
0	4-ALPHA-24-DIMETHYL-CHOLESTA-7,24-DIEN-3-BETA-OL	Seed				--
0	FIBER(DIETARY)	Fruit		482000.0	1.7052471143322203	--
0	FOLIAXANTHIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CAPSICOSIDE A-2	Root				--
0	3-ISOBUTYL-2-METHOXYPIRAZINE	Fruit				--
0	CAPSIANOSIDE-II	Fruit				--
0	PORPHOBILINOGEN-OXYGENASE	Leaf				--
0	SULFOQUINOVOSYL-DIACYL-GLYCEROL	Leaf				--
0	NEO-BETA-CAROTENE	Plant				--
0	5-HYDROXY-CAPSANTHIN-3,6-EPOXIDE	Fruit				--
0	5,6-DIHYDROXY-5,6-DIHYDRO-ZEAXANTHIN	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2-METHYL-PROPIONIC-ACID	Fruit				--
0	CIS-9,10-DIHYDRO-CAPSENONE	Tissue Culture		1.0		--
0	N-(13-METHYLTETRADECYL)ACETAMIDE	Fruit	300.0	400.0		--
0	TITANIUM	Fruit	0.355	16.0	-0.39196677622477016	--
0	9-CIS-ZEAXANTHIN	Fruit	2.0	32.0		--
0	HOMODIHYDROCAPSAICIN	Fruit	2.0	90.0		--
0	2,3-DIMETHYL-PYRAZINE	Fruit				--
0	CAPSOLUTEIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
0	GRAMISTEROL	Seed				--
0	KARPOXANTHIN	Fruit	0.5	150.0		--
0	4-ALPHA-14-ALPHA-24-TRIMETHYL-CHOLESTA-8(24)-DIEN-3-BETA-OL	Seed				--
0	LEAD	Fruit	0.004	2.0	-0.3720390542711243	--
0	FIBER(CRUDE)	Fruit		258000.0	1.530775468007022	--
0	1-METHYLPYRROLE-KETONE	Fruit				--
0	OCTANE	Fruit				--
0	CAPSICOSIDE	Seed				--
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	PHOSPHATIDYL-GLYCEROL	Leaf				--
0	5-METHYL-FURFURAL	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-TRANS-P-COUMAROYL-TYRAMINE	Root		2.0		--
0	VANILLYL-OCTANAMIDE	Fruit				--
0	4-ALPHA-METHYL-24-ETHYL-CHOLESTA-7,24-DIEN-3-BETA-OL	Seed				--
0	4-METHYLTRIDECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	2-METHYL-PENTAN-2-OL	Fruit				--
0	CIS-9'-CAPSANTHIN	Fruit				--
0	15-CIS-ZEAXANTHIN	Fruit	0.0	9.0		--
0	HOMOCAPSAICIN	Fruit	2.0	90.0		--
0	2,3-DIMETHYL-5-ETHYLPYRAZINE	Fruit				--
0	CAPSOCHROME	Fruit				--
0	LUTEOLIN-7-O-BETA-DIGLUCOSIDE	Leaf				--
0	CAROTENOIDS	Fruit	115.0	9945.0	1.9104197137381895	--
0	HOMODIHYDROCAPSAICIN	Resin, Exudate, Sap				--
0	ARACHIDIC-ACID	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	31-NORCYCLOARTANOL	Seed				--
0	AMMONIA	Fruit		382.0	1.0	--
0	FLUORINE	Fruit	0.05	1.0	-0.3491724883530834	ACTA AGRIC SCAND SUPPL 22: 1980
0	1,1-DIETHOXY-2-METHYLPROPANE	Fruit				--
0	OBTUSIFOLIOL	Seed				--
0	ZIRCONIUM	Fruit	1.4	2.0	-0.33411717815403996	--
0	CAPSICOSIDE	Plant				--
0	3-HEXANOL	Fruit				--
0	CYCLOARTANOL	Seed				--
0	CAPSIANOSIDE-F	Fruit				--
0	4-METHYL-GUAIACOL	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-TRANS-P-COUMAROYL-OCTOPAMINE	Root		1.0		--
0	VANILLYL-DECANAMIDE	Fruit				--
0	3'-O-MYRISTOYL-CAPSANTHIN	Fruit				--
0	4-METHYLTETRADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	2-METHYL-BUTYRIC-ACID	Fruit				--
0	CIS-13'-CAPSANTHIN	Fruit				--
0	13-CIS-ZEAXANTHIN	Fruit	2.0	43.0		--
0	PHYTOFLUENE	Fruit				--
0	2,3-BUTANEDIOL	Fruit				--
0	BETA-APO-8'-CAROTENAL	Fruit				--
0	LUTEOLIN-7-O-BETA-D-GLUCOSIDE	Leaf				--
0	CAPSANTHONE	Fruit	0.0	45.0		--
0	GLUTAMINASE	Fruit				--
0	GAMMA-BUTYROLACTONE	Fruit				--
0	31-NOR-LANOSTEROL	Seed				--
0	N-TRANS-FERULOYL-OCTOPAMINE	Root	1.0	2.0		--
0	LANOSTENOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	VANILLIC-ACID-4-BETA-D-GLUCOSIDE	Fruit				--
0	NORDIHYDROCAPSAICIN	Fruit	15.0	335.0		--
0	CAPSICOSIDE	Leaf				--
0	ALPHA-COPAENE	Fruit				--
0	3-(SEC-BUTYL)-2-METHOXYPIRAZINE	Fruit				--
0	CAPSIANOSIDE-E	Fruit				--
0	4-ETHYL-GUAIACOL	Fruit				--
0	N-TRANS-FERULOYL-TYRAMINE	Root		12.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	VANILLYL-CAPROYLAMIDE	Fruit				--
0	4-METHYLPENTADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	2-METHYL-BUTANAL	Fruit				--
0	PHYTOENE	Fruit				--
0	5-ALPHA-CHOLEST-8(14)-EN-3-BETA-OL	Seed				--
0	2,3,5-TRIMETHYLPYRAZINE	Fruit				--
0	CAPSICOSIDE-C-1	Root		600.0		--
0	LUTEOLIN-7-O-BETA-APIOGLUCOSIDE	Leaf				--
0	CAPSANTHIN-3,6-EPOXIDE	Fruit	0.0	165.0		--
0	P-XYLENE	Fruit				--
0	DIMETHOXY-BENZYL METHYLOCTAMIDE	Resin, Exudate, Sap				--
0	31-NOR-LANOST-9(11)-EN-3-BETA-OL	Seed				--
0	N-PROPYL-AMINE	Fruit		2.3		--
0	LANOST-8-EN-3-BETA-OL	Seed				--
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	NORCAPSAICINE	Fruit				--
0	ZETA-CAROTENE	Fruit				--
0	BUTANE-2,3-DIOL	Fruit				--
0	3,6-EPOXIDE-5-HYDROXY-5,6-DIHYDRO-ZEAXANTHIN	Fruit				--
0	CRYPTOCAPSIN	Fruit	0.2	75.0		--
0	3-METHYL-CYCLOPENT-2-EN-1-ONE	Fruit				--
0	VANILLOYL-GLUCOSE	Fruit				--
0	4-METHYL-PENTANOIC-ACID	Fruit				--
0	2-METHYL-BUTAN-2-OL	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FUNKIOSIDE C	Root				--
0	AUROXANTHIN-2	Fruit	0.0	0.5		--
0	AMMONIA(NH3)	Fruit		382.0		--
0	31-NOR-LANOST-8-EN-3-BETA-OL	Seed				--
0	1-O-FERRULOYL-BETA-D-GLUCOSE	Fruit				--
0	CAPSICOSIDE-B-1	Root		620.0		--
0	L-ASPARIGINASE	Fruit				--
0	RUBIDIUM	Fruit	0.38	10.0	-0.6798204139542442	ACTA AGRIC SCAND SUPPL 22: 1980
0	N-VANILLYL-N-NONAMIDE	Resin, Exudate, Sap				--
0	FAT	Fruit	2000.0	144000.0	0.4586083273000108	--
0	NONANOIC-ACID-VANILLYLAMIDE	Fruit	2.0	45.0		--
0	BUTANE-1,3-DIOL	Fruit				--
0	N-PENTYL-AMINE	Fruit		3.0	0.9999999999999997	--
0	4-METHYL-HEXADECANE	Fruit				--
0	2-METHYL-BUTAN-1-OL	Fruit				--
0	BROMINE	Fruit	0.1	111.0	3.331516857208814	ACTA AGRIC SCAND SUPPL 22: 1980
0	TETRADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	CYCLOVIOLAXANTHIN	Fruit	0.0	70.0		--
0	HEXAN-1-AL	Fruit				--
0	PHOSPHODIESTERASE	Tissue Culture				--
0	2-METHYL-PROPANAL	Fruit				--
0	BARIUM	Fruit	2.0	8.0	-0.8930759463364307	--
0	AUROXANTHIN-1	Fruit	0.0	0.5		--
0	CAPSICOSIDE E	Root				--
0	3-METHYL-PENTAN-3-OL	Fruit				--
0	DEHYDROASCORBIC-ACID	Fruit		20000.0	1.725773620676355	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	1-O-CAFFEYOYL-BETA-D-GLUCOSE	Fruit				--
0	CAPSICOSIDE-A-1	Root		530.0		--
0	NH3	Fruit		382.0		--
0	NONIVAMIDE	Resin, Exudate, Sap				--
0	NONADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	BUTANAL-3-METHYL	Fruit				--
0	ACETYLFURAN	Fruit				--
0	24-METHYL-LOPHENOL	Seed				--
0	CAPSIANOSIDE-B	Fruit	2.0	18.0		--
0	N-NITROSO-PYRROLIDINE	Fruit				--
0	MUTATOXANTHIN-2	Fruit	0.5	295.0		--
0	4-METHYL-HEPTADECANE	Fruit				--
0	2-METHYL-5-ETHYLPYRAZINE	Fruit				--
0	MARGARIC-ACID	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	CUCURBITAXANTHIN-B	Fruit	0.0	110.0		--
0	HEXADECANE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PHOSPHATIDYL-GLYCEROL	Fruit				--
0	CAPSICOSIN	Plant				--
0	2-HYDROXY-3-METHYL-CYCLOPENT-2-EN-1-ONE	Fruit				--
0	AUROCHROME	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LOPHENOL	Seed				--
0	9-CIS-CAPSANTHIN	Fruit	0.5	140.0		--
0	P-AMINO-BENZALDEHYDE	Root		6.0		--
0	DI-N-PROPYL-AMINE	Fruit		0.3		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CAPSICOSIDE C-3	Root				--
0	3-METHYL-BUTYRIC-ACID	Fruit				--
0	DECANOIC-ACID-VANILLYLAMIDE	Fruit	1.0	68.0		USDA's Ag Handbook 8 and sequelae)
0	1-HEXANOL	Fruit				--
0	CAPSIANSIDE-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	ISOHEXYL-ISOCAPROATE	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	ETHYL-3-METHYLBUTYRATE	Fruit				--
0	NITROGEN	Fruit	1900.0	23330.0	0.6105662880376689	ACTA AGRIC SCAND SUPPL 22: 1980
0	XANTHOPHYLL-EPOXIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BUTANAL-2-METHYL	Fruit				--
0	24-METHYL-LANOST-9(11)-EN-3-BETA-OL	Seed				--
0	CITRULLIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-NITROSO-DIMETHYLAMINE	Fruit				--
0	TRYPTOPHAN-PYRROLO-OXYGENASE	Leaf				--
0	MUTATOXANTHIN-1	Fruit	0.0	40.0		--
0	4-METHYL-3-PENTEN-2-ONE	Fruit				--
0	2-METHOXY-3-ISOBUTYL-PYRAZINE	Fruit				--
0	CUCURBITAXANTHIN-A	Fruit	1.0	610.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CAPSIAMIDE	Plant				--
0	1-HYDROXY-PROPAN-2-ONE	Fruit				--
0	13-CIS-CAPSANTHIN	Fruit	0.0	205.0		--
0	CAPSICOSIDE C-2	Root				--
0	ALPHA-THUJENE	Fruit				--
0	3-METHYL-BUTANAL	Fruit				--
0	CAPSIANOSIDE-V	Fruit		2.0		--
0	PROTEIN	Fruit	35862.0	139000.0	0.3954798997595693	--
0	ERIODICTIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	24-(R)-ETHYL-LOPHENOL	Seed				--
0	CITROXANTHIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CAPSIAMIDE	Fruit	20.0	200.0		Chemical Constituents of Oriental Herbs (3 diff. books)
0	N-METHYL-ANILINE	Fruit		13.1		--
1	MALONIC-ACID	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	PENTADECANOIC-ACID	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
1	CITROSTADIENOL	Seed				--
1	TOLUENE	Fruit				--
1	MALONIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	CAPSORUBIN	Fruit	0.0	260.0		--
1	RUBIXANTHIN	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	DIHYDROCAPSAICIN	Tissue Culture				--
1	SERINE	Fruit	340.0	4638.0	0.351286486996007	--
1	CAPSIANOSIDE-I	Fruit		18.0		--
1	DIHYDROCAPSAICIN	Resin, Exudate, Sap		318000.0		--
1	LANOSTEROL	Seed				--
1	ANTHERAXANTHIN	Fruit	0.5	165.0		--
1	DIHYDROCAPSAICIN	Fruit	75.0	1628.0		--
1	CAPSIANOSIDE-D	Fruit	21.0	38.0		--
1	BEHENIC-ACID	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
1	CAPSIANOSIDE-C	Fruit	35.0	103.0		--
1	MERCURY	Fruit	0.001	0.001	-0.7865389313824043	--
1	EPSILON-CAROTENE	Fruit				--
1	GLUCOSAMINE	Fruit				--
1	PYRROLIDINE	Fruit		1.4		--
1	NAPHTHALENE	Fruit				--
1	CAPSIANOSIDE-A	Fruit	33.0	250.0		--
1	SODIUM	Fruit	152.0	590.0	-0.12800174907287107	--
1	GALACTOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	ASPARAGINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	NEOXANTHIN	Fruit	0.0	18.0	1.0	--
2	CAPSANTHIN	Fruit	1.0	2820.0		--
2	BETA-CRYPTOXANTHIN	Fruit	1.0	510.0	1.0	--
2	ARSENIC	Fruit	0.004	0.015	-0.5177009203400424	--
2	LEUCINE	Fruit	440.0	6002.0	0.19151009080138937	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	VIOLAXANTHIN	Fruit	2.0	205.0		--
2	PALMITOLEIC-ACID	Fruit	30.0	409.0	-0.27067772308159505	USDA's Ag Handbook 8 and sequelae)
2	CAMPESTEROL	Fruit	20.0	530.0	3.841640034312409	--
2	ALPHA-CRYPTOXANTHIN	Plant				--
2	CRYPTOXANTHIN	Fruit				--
2	MOLYBDENUM	Fruit	0.0	15.0	2.521090498809608	--
2	HEXANOIC-ACID	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.)
2	ALPHA-CRYPTOXANTHIN	Fruit	1.0	25.0		--
2	COBALT	Fruit	4.0	15.1	1.2928795988960315	--
2	CYSTINE	Fruit	160.0	2182.0	1.2003774411002974	USDA's Ag Handbook 8 and sequelae)
3	LIGUSTRAZINE	Fruit				--
3	SILVER	Fruit	0.071	0.1	-0.45980626251045253	--
3	CYCLOEUCALENOL	Seed				--
3	CYNAROSIDE	Leaf				--
3	CAPSIDIOL	Fruit		29.0		--
3	PYRIDINE	Fruit				--
3	CADMIUM	Fruit	0.005	0.33	0.32622088213907097	--
3	CAPSIDIOL	Tissue Culture				--
3	ALANINE	Fruit	350.0	4774.0	0.41916448807939843	--
3	VALINE	Fruit	360.0	4910.0	0.09429171805261376	--
3	ISOLEUCINE	Fruit	270.0	3683.0	0.013574129648896245	USDA's Ag Handbook 8 and sequelae)
3	XYLOSE	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
3	ASPARTIC-ACID	Fruit	1200.0	16504.0	0.8336382798513058	--
3	NICKEL	Fruit	0.05	5.5	0.893202335058218	--
3	XANTHOPHYLL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
4	SILICON	Fruit				--
4	LYSINE	Fruit	380.0	5183.0	0.27674261896008856	USDA's Ag Handbook 8 and sequelae)
4	TIN	Fruit	1.3	5.0	-0.3575360694452028	--
4	THREONINE	Fruit	310.0	4228.0	0.5031132526815597	--
4	APIIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	PHOSPHORUS	Fruit	784.0	3040.0	-0.053456578480128816	--
4	BORON	Fruit	1.0	74.0	0.6859947425378856	--
4	L-ASPARAGINASE	Fruit				--
5	OCTANOIC-ACID	Fruit				--
5	SABINENE	Fruit				--
5	HEXANAL	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
5	ZEAXANTHIN	Fruit	1.4	1525.0	1.0	--
5	24-METHYLENE-CYCLOARTANOL	Seed				--
5	PHYLLOQUINONE	Fruit	0.02	0.06	-0.22359887323159108	--
5	ALUMINUM	Fruit				--
5	SOLANIDINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	ETHYL-ACETATE	Fruit				--
6	O-CRESOL	Fruit				--
6	MYRISTIC-ACID	Fruit	10.0	136.0	-0.262727790139001	--
6	RISHITIN	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	PROPIONIC-ACID	Fruit				--
6	IRON	Fruit	4.0	14.0	-0.47195395604815815	--
7	CYCLOARTENOL	Seed				--
7	HISTIDINE	Fruit	170.0	2319.0	0.4251522813518472	--
7	SALICYLATES	Fruit	6.0	100.0	-0.04999562500039605	--
7	ALPHA-CAROTENE	Fruit	0.2	20.0	2.436266539567189	--
7	GLUCOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	PHENYLALANINE	Fruit	260.0	3546.0	0.07637278495697446	USDA's Ag Handbook 8 and sequelae)
8	P-CRESOL	Fruit				--
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)
8	GLUTAMIC-ACID	Fruit	1120.0	15277.0	0.15870222657295222	USDA's Ag Handbook 8 and sequelae)
8	DELTA-3-CARENE	Fruit				--
8	TYROSINE	Fruit	180.0	2455.0	0.01503141767564613	USDA's Ag Handbook 8 and sequelae)
9	CAMPHENE	Fruit				--
9	BETA-AMYRIN	Seed				--
9	TERPINOLENE	Fruit				--
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.
10	PIPERIDINE	Fruit		5.2	-1.4134560119817663	--
11	PANTOTHENIC-ACID	Fruit	0.0	5.0	-0.8358850147292255	USDA's Ag Handbook 8 and sequelae)
11	ALPHA-PHELLANDRENE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	GAMMA-TERPINENE	Fruit				--
11	LITHIUM	Fruit	0.284	0.4	-0.5556718414322324	--
11	MALTOL	Fruit				--
12	STIGMASTEROL	Fruit	10.0	180.0	1.3242602946608402	--
12	GLYCINE	Fruit	310.0	4228.0	0.24116126345948113	--
12	COPPER	Fruit	0.5	20.0	0.5588968590110831	--
13	BETA-PINENE	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	--
14	SULFUR	Fruit	190.0	2440.0	0.7136799213892123	--
14	POTASSIUM	Fruit	3483.0	13500.0	-0.3907443973119217	--
14	ARGININE	Fruit	410.0	5592.0	0.34202092362066183	USDA's Ag Handbook 8 and sequelae)
14	BETAINE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
14	MANGANESE	Fruit	0.4	1.4	-0.39430607258501055	--
15	FOLACIN	Fruit	0.0	3.0	0.3894543457310426	USDA's Ag Handbook 8 and sequelae)
15	ALPHA-LINOLENIC-ACID	Fruit	220.0	3001.0	0.20656945687815753	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Fruit	12000.0	351000.0	1.975278288083942	--
15	METHIONINE	Fruit	100.0	1364.0	0.49932054232266115	USDA's Ag Handbook 8 and sequelae)
15	LUTEIN	Fruit	0.0	50.0	3.4855553704728424	--
15	RIBOFLAVIN	Fruit	0.0	19.0	2.9963413996709614	--
15	TRIGONELLINE	Seed		0.6	-0.46893261236098505	--
16	ACETIC-ACID	Fruit				--
16	P-CYMENE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	--
18	GUAIACOL	Fruit				--
18	CINNAMIC-ACID	Tissue Culture				--
18	SOLASODINE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
19	ACETYL-CHOLINE	Seed		105.0	0.5835650056778248	--
19	ACETYL-CHOLINE	Pericarp		15.0	-1.0	--
20	CHOLINE	Seed		360.0	-1.2352144104006983	--
20	CHOLINE	Pericarp		297.0	-1.0	--
21	CHLOROPHYLL	Fruit	0.0	195.0	0.22124854097919466	--
21	LUPEOL	Seed				--
22	MYRCENE	Fruit				--
22	TETRAMETHYL-PYRAZINE	Fruit				--
23	ALPHA-TERPINEOL	Fruit				--
23	CITRIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
23	TERPINEN-4-OL	Fruit				--
24	CHROMIUM	Fruit		0.0	-0.5076332138804538	--
24	BENZALDEHYDE	Fruit				--
25	P-COUMARIC-ACID	Fruit		79.0	-0.3401508451648206	--
26	SOLANINE	Leaf		500.0	-1.0	--
26	PHENOL	Fruit				--
26	SOLANINE	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
27	LINOLEIC-ACID	Fruit	2190.0	29871.0	0.06603462603214637	--
28	PULEGONE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
28	ALPHA-PINENE	Fruit				--
28	CALCIUM	Fruit	431.0	1670.0	-0.5045082674838655	--
29	TRYPTOPHAN	Fruit	110.0	1500.0	0.911613449940336	USDA's Ag Handbook 8 and sequelae)
31	CARYOPHYLLENE	Fruit				--
31	THIAMIN	Fruit	1.0	15.0	1.237464316955986	USDA's Ag Handbook 8 and sequelae)
31	HESPERIDIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
32	ALPHA-TOCOPHEROL	Fruit	22.0	284.0	3.249804110897653	--
34	MYRICETIN	Fruit		1.0	-0.6882411791853533	--
39	NIACIN	Fruit	21.0	80.0	0.25803272913297753	--
44	CAPSAICIN	Fruit	100.0	4000.0	-1.0	--
44	CAPSAICIN	Resin, Exudate, Sap		634000.0		--
44	SCOPOLETIN	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
44	CAPSAICIN	Tissue Culture		590.0		--
47	BETA-SITOSTEROL	Plant				--
47	BETA-SITOSTEROL	Fruit	60.0	1190.0	0.7692772928142692	--
53	BETA-CAROTENE	Fruit	25.0	95.0	0.032832659233001486	--
53	LINALOOL	Fruit				--
60	LIMONENE	Fruit				--
60	SELENIUM	Fruit	0.001	0.002	-0.38569128420884563	--
65	MAGNESIUM	Fruit	604.0	2340.0	0.0973640583480707	--
76	EUGENOL	Fruit				--
77	ZINC	Fruit	2.0	7.7	-0.6799873909506287	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	CHLOROGENIC-ACID	Leaf				--
77	CHLOROGENIC-ACID	Fruit				--
78	LUTEOLIN	Fruit		11.0		--
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.
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.
102	CAFFEIC-ACID	Fruit		11.0	-0.3368770543074836	--
112	ASCORBIC-ACID	Fruit	230.0	20982.0	1.0201086559741077	--