

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Capsicum frutescens*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
67	1,8-CINEOLE	Fruit				--
0	1-HEXANOL	Fruit				--
0	1-PENTANOL	Fruit				--
0	2-DECENOIC-ACID	Fruit				--
0	2-HEPTANONE	Fruit				--
0	2-HEXANOL	Fruit				--
0	2-ISO-BUTYL-3-METHOXY-PYRAZINE	Fruit		121.0		--
0	2-METHOXY-3-ISOBUTYL-PYRAZINE	Fruit				--
0	2-METHYL-BUTANAL	Fruit				--
0	2-METHYL-BUTYRIC-ACID	Fruit				--
0	2-OCTANONE	Fruit				--
0	2-OCTENOIC-ACID	Fruit				--
0	2-PENTYL-FURAN	Fruit				--
4	2-UNDECANONE	Fruit				--
0	3-ACETAMIDO-2-METHYL-PENTADECANE	Fruit				--
0	3-ACETAMIDO-2-METHYL-TETRADECANE	Fruit				--
0	3-HYDROXY-ALPHA-CAROTENE	Fruit				--
0	3-ISOBUTYL-2-METHOXYPYRAZINE	Fruit				--
0	3-METHYL-BUTAN-1-OL	Fruit				--
0	3-METHYL-BUTANAL	Fruit				--
0	4-METHYL-3-PENTEN-2-ONE	Fruit				--
0	4-METHYL-HEPTADECANE	Fruit				--
0	4-METHYL-HEXADECANE	Fruit				--
0	4-METHYL-PENTAN-1-OL	Fruit				--
0	4-METHYL-PENTANOIC-ACID	Fruit				--
0	4-METHYLPENTADECANE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	4-METHYLPENTYL-2-METHYL-BUTYRATE	Fruit				--
0	4-METHYLPENTYL-3-METHYL-BUTYRATE	Fruit				--
0	4-METHYLTETRADECANE	Fruit				--
0	4-METHYLTRIDECANE	Fruit				--
0	5-METHYL-2-FURFURAL	Fruit				--
0	7-METHYL-OCTANOIC-ACID	Fruit				--
0	8-METHYL-NONANOATE	Fruit				--
0	8-METHYL-NONANOIC-ACID	Fruit				--
16	ACETIC-ACID	Resin, Exudate, Sap				--
3	ALANINE	Fruit	820.0	6691.0	1.172599390703127	USDA's Ag Handbook 8 and sequelae)
7	ALPHA-CAROTENE	Fruit				--
15	ALPHA-LINOLENIC-ACID	Fruit	50.0	408.0	-0.9676999486324697	USDA's Ag Handbook 8 and sequelae)
11	ALPHA-PHELLANDRENE	Fruit				--
23	ALPHA-TERPINEOL	Fruit				--
5	ALUMINUM	Fruit				--
1	ANTHERAXANTHIN	Fruit				--
4	APIIN	Fruit				--
0	ARACHIDIC-ACID	Fruit				--
14	ARGININE	Fruit	960.0	7834.0	0.9400462931719672	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Fruit	350.0	23000.0	1.1455818273019922	--
0	ASH	Fruit	6000.0	65000.0	0.21586982574245966	--
2	ASPARAGINE	Fruit				--
3	ASPARTIC-ACID	Fruit	2860.0	23338.0	1.7314621798304917	USDA's Ag Handbook 8 and sequelae)
0	AUROCHROME	Fruit				--
0	BARIUM	Fruit				--
1	BEHENIC-ACID	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	BENZALDEHYDE	Fruit				--
53	BETA-CAROTENE	Fruit	1.0	38.0	-0.0773473137851821	--
0	BETA-CAROTENE-EPOXIDE	Fruit				--
13	BETA-IONONE	Fruit				--
0	BETA-PHENETHYLACETATE	Fruit				--
13	BETA-PINENE	Fruit				--
47	BETA-SITOSTEROL	Fruit	60.0	70.0	-0.702269364661361	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
14	BETAINE	Fruit				--
4	BORON	Fruit	4.0	17.0	-0.4616311374782685	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron).
6	BUTYRIC-ACID	Resin, Exudate, Sap				--
102	CAFFEIC-ACID	Fruit		32.0	-0.3329891212786086	--
28	CALCIUM	Fruit	175.0	1560.0	-0.5298919085411719	--
2	CAMPESTEROL	Fruit	20.0	30.0	-0.4046460894399287	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
41	CAMPHOR	Fruit				--
1	CAPROIC-ACID	Resin, Exudate, Sap				--
44	CAPSAICIN	Fruit	100.0	17900.0	1.0	--
44	CAPSAICIN	Pericarp				--
44	CAPSAICIN	Tissue Culture				--
44	CAPSAICIN	Seed		5.0		--
2	CAPSANTHIN	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CAPSANTHIN-3,6-EPOXIDE	Fruit				--
0	CAPSANTHIN-5,6-EPOXIDE	Fruit				--
0	CAPSANTHONE	Fruit				--
0	CAPSIAMIDE	Fruit	20.0	200.0		--
3	CAPSIDIOL	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	CAPSIDOL	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	CAPSOLUTEIN	Fruit				--
1	CAPSORUBIN	Fruit				--
0	CARBOHYDRATES	Fruit	87000.0	849000.0	0.353568647501926	--
0	CARNAUBIC-ACID	Seed				--
19	CARVONE	Fruit				--
31	CARYOPHYLLENE	Fruit				--
77	CHLOROGENIC-ACID	Stem				--
77	CHLOROGENIC-ACID	Fruit				--
24	CHROMIUM	Fruit	3.0	3.5	-0.01602978329031414	--
18	CINNAMIC-ACID	Fruit				--
0	CIS-3-HEXEN-1-OL	Fruit				--
23	CITRIC-ACID	Fruit				--
0	CITROXANTHIN	Fruit				--
0	CITRULLIN	Fruit				--
2	COBALT	Fruit	0.5	0.8	-0.43826781025666195	--
12	COPPER	Fruit	2.0	14.0	0.0919201936132837	--
0	CRYPTOCAPSIN	Fruit				--
2	CRYPTOXANTHIN	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CUCURBITAXANTHIN-A	Fruit				--
0	CUCURBITAXANTHIN-B	Fruit				--
0	CYCLOVIOLAXANTHIN	Fruit				--
2	CYSTINE	Fruit	380.0	3101.0	2.1590364256446732	USDA's Ag Handbook 8 and sequelae)
0	DECANOIC-ACID-VANILLYLAMIDE	Fruit	1.0	68.0		--
8	DELTA-3-CARENE	Fruit				--
1	DIHYDROCAPSAICIN	Pericarp				--
1	DIHYDROCAPSAICIN	Fruit	75.0	1628.0		--
0	EO	Fruit		16000.0	-0.5089697144452834	--
0	ERIODICTIN	Fruit				--
0	ETHYL-DODECANOATE	Fruit				--
0	ETHYL-OCTANOATE	Fruit				--
0	ETHYL-TETRADECANOATE	Fruit				--
0	FAT	Seed	100000.0	150000.0	-0.6077877171137942	--
0	FAT	Fruit	1000.0	16320.0	-0.5166012425337018	--
61	FERULIC-ACID	Fruit				--
15	FIBER	Fruit	18000.0	146880.0	0.04910384821470623	--
15	FOLACIN	Fruit	0.0	2.0	-0.019192793995839758	USDA's Ag Handbook 8 and sequelae)
0	FOLIAXANTHIN	Fruit				--
1	GALACTOSE	Fruit				--
2	GERANYL-ACETONE	Fruit				--
7	GLUCOSE	Fruit				--
8	GLUTAMIC-ACID	Fruit	2640.0	21542.0	0.6462527347442002	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Fruit	740.0	6038.0	0.9413380636653274	USDA's Ag Handbook 8 and sequelae)
0	HENEICOSANE	Fruit				--
0	HEPTADECANE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEPTANOIC-ACID	Fruit				--
31	HESPERIDIN	Fruit				--
0	HEXADECANE	Fruit				--
2	HEXANOIC-ACID	Fruit				--
7	HISTIDINE	Fruit	410.0	3346.0	1.1452024426776553	USDA's Ag Handbook 8 and sequelae)
0	HOMOCAPSAICIN	Fruit	2.0	90.0		--
0	HOMODIHYDROCAPSAICIN	Fruit	2.0	90.0		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	HOMODIHYDROCAPSAICIN -I	Fruit				--
0	HYDROXY-ALPHA-CAROTENE	Fruit				--
6	IRON	Fruit	7.0	135.0	0.008020432056497481	--
2	ISOBUTYRIC-ACID	Resin, Exudate, Sap				--
0	ISOHEXANOIC-ACID	Resin, Exudate, Sap				--
0	ISOHEXYL-ISOCAPROATE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
3	ISOLEUCINE	Fruit	650.0	5304.0	0.5004334014218573	USDA's Ag Handbook 8 and sequelae)
0	ISOTHUJONE	Fruit				--
5	ISOVALERIC-ACID	Resin, Exudate, Sap				--
75	KAEMPFEROL	Anther				--
0	LATOXANTHIN	Fruit				--
7	LAURIC-ACID	Resin, Exudate, Sap				--
2	LEUCINE	Fruit	1050.0	8568.0	0.7370114428537464	USDA's Ag Handbook 8 and sequelae)
60	LIMONENE	Fruit				--
27	LINOLEIC-ACID	Fruit	1040.0	8486.0	-0.2356752831952287	USDA's Ag Handbook 8 and sequelae)
11	LITHIUM	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	LUTEIN	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	LUTEOLIN-7-MONOGLUCOSIDE	Fruit				--
4	LYSINE	Fruit	890.0	7262.0	0.8151903697542972	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Fruit	230.0	2203.0	0.033925098678476644	USDA's Ag Handbook 8 and sequelae)
1	MALONIC-ACID	Leaf				--
14	MANGANESE	Fruit	2.0	20.0	-0.271660098949806	USDA's Ag Handbook 8 and sequelae)
0	MARGARIC-ACID	Fruit				--
15	METHIONINE	Fruit	240.0	1958.0	1.2307904104780838	USDA's Ag Handbook 8 and sequelae)
0	METHYL-8-METHYL-6-NONANOATE	Fruit				--
0	METHYL-BETA-PHENYLPROPIONATE	Fruit				--
0	METHYL-DECANOATE	Fruit				--
0	METHYL-DODECANOATE	Fruit				--
0	METHYL-HEPTANOATE	Fruit				--
0	METHYL-HEXADECANOATE	Fruit				--
0	METHYL-HEXANOATE	Fruit				--
2	METHYL-NONANOATE	Fruit				--
0	METHYL-OCTADECANOATE	Fruit				--
0	METHYL-OCTANOATE	Fruit				--
0	METHYL-PENTANOATE	Fruit				--
2	METHYL-PHENYLACETATE	Fruit				--
0	METHYL-TETRADECANOATE	Fruit				--
0	MEVALONIC-ACID	Fruit		0.5	-0.6071834425016228	--
22	MYRCENE	Fruit				--
6	MYRISTIC-ACID	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	MYRISTIC-ACID	Fruit	10.0	82.0	-0.26527528291125785	USDA's Ag Handbook 8 and sequelae)
0	N-(13-METHYLTETRADECYL)ACETAMIDE	Fruit				--
0	N-HEXANAL	Fruit				--
0	NEO-BETA-CAROTENE	Plant				--
2	NEOXANTHIN	Fruit				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
39	NIACIN	Fruit	9.0	158.0	1.3007573647495265	--
3	NICKEL	Fruit	1.0	1.5	-0.3232802458858994	--
0	NIGROXANTHIN	Fruit				--
0	NONADECANE	Fruit				--
2	NONANOIC-ACID	Fruit				--
0	NONANOIC-ACID-VANILLYLAMIDE	Fruit	2.0	45.0		--
0	NORCAPSAICIN	Fruit				--
0	NORDIHYDROCAPSAICIN	Fruit	15.0	335.0		--
0	NOVIVAMIDE	Fruit				--
5	OCTANOIC-ACID	Fruit				--
0	OCTOPAMINE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
18	OLEIC-ACID	Seed				--
18	OLEIC-ACID	Fruit	110.0	898.0	-0.47382397454953795	USDA's Ag Handbook 8 and sequelae)
9	OXALIC-ACID	Fruit				--
25	P-COUMARIC-ACID	Fruit		540.0	2.293291804958545	--
2	P-METHYL-ACETOPHENONE	Fruit				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	P-XYLENE	Fruit				--
13	PALMITIC-ACID	Resin, Exudate, Sap				--
13	PALMITIC-ACID	Seed				--
13	PALMITIC-ACID	Fruit	150.0	1224.0	-0.34648051868331636	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Fruit				USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Fruit	1.0	5.0	-0.8358850147292255	USDA's Ag Handbook 8 and sequelae)
0	PENTADECANE	Fruit				--
1	PENTADECANOIC-ACID	Fruit				--
0	PENTANOIC-ACID	Fruit				--
7	PHENYLALANINE	Fruit	620.0	5059.0	0.6010935599540774	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Fruit	455.0	3794.0	0.17556322196778232	USDA's Ag Handbook 8 and sequelae)
5	PHYLLOQUINONE	Fruit	0.02	0.06	-0.22359887323159108	--
2	PHYTOSTEROLS	Fruit	90.0	130.0	-1.0504327164506866	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
14	POTASSIUM	Fruit	2600.0	34272.0	1.4470297437511566	--
0	PROLINE	Fruit	870.0	7099.0	0.8487973914288358	--
0	PROTEIN	Fruit	11000.0	163200.0	0.7198914229242388	--
28	PULEGONE	Fruit				--
176	QUERCETIN	Fruit		63.0	-0.4638273342549432	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
15	RIBOFLAVIN	Fruit	1.0	8.0	0.6405083179917069	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
87	RUTIN	Fruit		487.0	-0.597969170419332	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.
7	SALICYLATES	Fruit	6.0	2000.0	5.398186266809645	--
44	SCOPOLETIN	Fruit				--
1	SERINE	Fruit	800.0	6528.0	1.0185542864155581	USDA's Ag Handbook 8 and sequelae)
4	SILICON	Fruit				--
1	SODIUM	Fruit	50.0	734.0	-0.11434639079607677	--
5	SOLANIDINE	Fruit				--
26	SOLANINE	Fruit				--
18	SOLASODINE	Fruit				--
8	STEARIC-ACID	Seed				--
8	STEARIC-ACID	Fruit	30.0	245.0	-0.2629735334438446	USDA's Ag Handbook 8 and sequelae)
12	STIGMASTEROL	Fruit	10.0	20.0	-0.8951703667819086	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
23	TERPINEN-4-OL	Fruit				--
0	TETRADECANE	Fruit				--
31	THIAMIN	Fruit	0.0	8.0	0.3414272755878574	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Fruit	740.0	6038.0	1.2555161590514035	USDA's Ag Handbook 8 and sequelae)
17	THUJONE	Fruit				--
0	TITANIUM	Fruit				--
93	TOCOPHEROL	Fruit		24.0	-0.48930868112103443	--
1	TOLUENE	Fruit				--
0	TRANS-2-HEXEN-1-OL	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
29	TRYPTOPHAN	Fruit	260.0	2122.0	1.784557457132048	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Fruit	420.0	3427.0	0.41780296779908704	USDA's Ag Handbook 8 and sequelae)
9	VALERIC-ACID	Resin, Exudate, Sap				--
3	VALINE	Fruit	840.0	6854.0	0.49539259309480443	USDA's Ag Handbook 8 and sequelae)
0	VANILLYL-AMIDE	Fruit				--
1	VANILLYL-AMINE	Fruit				--
2	VIOLAXANTHIN	Fruit				--
0	VIT-B-6	Fruit	3.0	23.0	2.4870709072099877	USDA's Ag Handbook 8 and sequelae)
0	WATER	Fruit	70000.0	889550.0	0.5173112338666463	--
0	XANTHOPHYLL-EPOXIDE	Fruit				--
3	XYLOSE	Fruit				--
5	ZEAXANTHIN	Fruit				--
77	ZINC	Fruit	3.0	24.0	-0.1895875891620866	USDA's Ag Handbook 8 and sequelae)
0	ZUCAPSAICIN	Fruit				--