

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in Capsicum frutescens

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
67	1,8-CINEOLE	Fruit	--	--		
4	2-UNDECANONE	Fruit	--	--		
16	ACETIC-ACID	Resin, Exudate, Sap	--	--		
3	ALANINE	Fruit	820	6691	1.172599390703127	USDA's Ag Handbook 8 and sequelae)
7	ALPHA-CAROTENE	Fruit	--	--		
15	ALPHA-LINOLENIC-ACID	Fruit	50	408	-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	--	--		
14	ARGININE	Fruit	960	7834	0.9400462931719672	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Fruit	350	19992	1.1455818273019922	
2	ASPARAGINE	Fruit	--	--		
3	ASPARTIC-ACID	Fruit	2860	23338	1.7314621798304917	USDA's Ag Handbook 8 and sequelae)
1	BEHENIC-ACID	Fruit	--	--		
24	BENZALDEHYDE	Fruit	--	--		
53	BETA-CAROTENE	Fruit	1	38	-0.0773473137851821	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-IONONE	Fruit	--	--		
13	BETA-PINENE	Fruit	--	--		
47	BETA-SITOSTEROL	Fruit	60	70	-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4	BORON	Fruit	4	17	-0.4616311374782685	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages.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	32	-0.3329891212786086	
28	CALCIUM	Fruit	175	1560	-0.5298919085411719	
2	CAMPESTEROL	Fruit	20	30	-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	Seed	--	5		
44	CAPSAICIN	Tissue Culture	--	--		
44	CAPSAICIN	Pericarp	--	--		
44	CAPSAICIN	Fruit	100	17900	1	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	CAPSANTHIN	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
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.
1	CAPSORUBIN	Fruit	--	--		
19	CARVONE	Fruit	--	--		
31	CARYOPHYLLENE	Fruit	--	--		
77	CHLOROGENIC-ACID	Stem	--	--		
77	CHLOROGENIC-ACID	Fruit	--	--		
24	CHROMIUM	Fruit	3	3.5	-0.01602978329031414	
18	CINNAMIC-ACID	Fruit	--	--		
23	CITRIC-ACID	Fruit	--	--		
2	COBALT	Fruit	0.5	0.8	-0.43826781025666195	
12	COPPER	Fruit	2	14	0.0919201936132837	
2	CRYPTOXANTHIN	Fruit	--	--		
2	CYSTINE	Fruit	380	3101	2.1590364256446732	USDA's Ag Handbook 8 and sequelae)
8	DELTA-3-CARENE	Fruit	--	--		
1	DIHYDROCAPSAICIN	Pericarp	--	--		
1	DIHYDROCAPSAICIN	Fruit	75	1628		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
61	FERULIC-ACID	Fruit	--	--		
15	FIBER	Fruit	18000	146880	0.04910384821470623	
15	FOLACIN	Fruit	--	2	-0.019192793995839758	USDA's Ag Handbook 8 and sequelae)
1	GALACTOSE	Fruit	--	--		
2	GERANYL-ACETONE	Fruit	--	--		
7	GLUCOSE	Fruit	--	--		
8	GLUTAMIC-ACID	Fruit	2640	21542	0.6462527347442002	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Fruit	740	6038	0.9413380636653274	USDA's Ag Handbook 8 and sequelae)
31	HESPERIDIN	Fruit	--	--		
2	HEXANOIC-ACID	Fruit	--	--		
7	HISTIDINE	Fruit	410	3346	1.1452024426776553	USDA's Ag Handbook 8 and sequelae)
6	IRON	Fruit	7	135	0.008020432056497481	
2	ISOBUTYRIC-ACID	Resin, Exudate, Sap	--	--		
3	ISOLEUCINE	Fruit	650	5304	0.5004334014218573	USDA's Ag Handbook 8 and sequelae)
5	ISOVALERIC-ACID	Resin, Exudate, Sap	--	--		
75	KAEMPFEROL	Anther	--	--		
7	LAURIC-ACID	Resin, Exudate, Sap	--	--		
2	LEUCINE	Fruit	1050	8568	0.7370114428537464	USDA's Ag Handbook 8 and sequelae)
60	LIMONENE	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
27	LINOLEIC-ACID	Fruit	1040	8486	-0.2356752831952287	USDA's Ag Handbook 8 and sequelae)
11	LITHIUM	Fruit	--	--		
15	LUTEIN	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	LYSINE	Fruit	890	7262	0.8151903697542972	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Fruit	230	2203	0.033925098678476644	USDA's Ag Handbook 8 and sequelae)
1	MALONIC-ACID	Leaf	--	--		
14	MANGANESE	Fruit	2	20	-0.271660098949806	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Fruit	240	1958	1.2307904104780838	USDA's Ag Handbook 8 and sequelae)
2	METHYL-NONANOATE	Fruit	--	--		
2	METHYL-PHENYLACETATE	Fruit	--	--		
22	MYRCENE	Fruit	--	--		
6	MYRISTIC-ACID	Fruit	10	82	-0.26527528291125785	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Seed	--	--		
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	158	1.3007573647495265	
3	NICKEL	Fruit	1	1.5	-0.3232802458858994	
2	NONANOIC-ACID	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	OCTANOIC-ACID	Fruit	--	--		
18	OLEIC-ACID	Seed	--	--		
18	OLEIC-ACID	Fruit	110	898	-0.47382397454953795	USDA's Ag Handbook 8 and sequelae)
9	OXALIC-ACID	Fruit	--	--		
25	P-COUMARIC-ACID	Fruit	540	540	2.293291804958545	
2	P-METHYL-ACETOPHENONE	Fruit	--	--		
13	PALMITIC-ACID	Fruit	150	1224	-0.34648051868331636	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Resin, Exudate, Sap	--	--		
13	PALMITIC-ACID	Seed	--	--		
2	PALMITOLEIC-ACID	Fruit	--	--		USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Fruit	1	5	-0.8358850147292255	USDA's Ag Handbook 8 and sequelae)
1	PENTADECANOIC-ACID	Fruit	--	--		
7	PHENYLALANINE	Fruit	620	5059	0.6010935599540774	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Fruit	455	3794	0.17556322196778232	USDA's Ag Handbook 8 and sequelae)
5	PHYLLOQUINONE	Fruit	0.02	0.06	-0.22359887323159108	
2	PHYTOSTEROLS	Fruit	90	130	-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	34272	1.4470297437511566	
28	PULEGONE	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
176	QUERCETIN	Fruit	63	63	-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	8	0.6405083179917069	
87	RUTIN	Fruit	--	487	-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	2000	5.398186266809645	
44	SCOPOLETIN	Fruit	--	--		
1	SERINE	Fruit	800	6528	1.0185542864155581	USDA's Ag Handbook 8 and sequelae)
4	SILICON	Fruit	--	--		
1	SODIUM	Fruit	50	734	-0.11434639079607677	
5	SOLANIDINE	Fruit	--	--		
26	SOLANINE	Fruit	--	--		
18	SOLASODINE	Fruit	--	--		
8	STEARIC-ACID	Fruit	30	245	-0.2629735334438446	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed	--	--		
12	STIGMASTEROL	Fruit	10	20	-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	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
31	THIAMIN	Fruit	--	8	0.3414272755878574	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Fruit	740	6038	1.2555161590514035	USDA's Ag Handbook 8 and sequelae)
17	THUJONE	Fruit	--	--		
93	TOCOPHEROL	Fruit	24	24	-0.48930868112103443	
1	TOLUENE	Fruit	--	--		
29	TRYPTOPHAN	Fruit	260	2122	1.784557457132048	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Fruit	420	3427	0.41780296779908704	USDA's Ag Handbook 8 and sequelae)
9	VALERIC-ACID	Resin, Exudate, Sap	--	--		
3	VALINE	Fruit	840	6854	0.49539259309480443	USDA's Ag Handbook 8 and sequelae)
1	VANILLYL-AMINE	Fruit	--	--		
2	VIOLAXANTHIN	Fruit	--	--		
3	XYLOSE	Fruit	--	--		
5	ZEAXANTHIN	Fruit	--	--		
77	ZINC	Fruit	3	24	-0.1895875891620866	USDA's Ag Handbook 8 and sequelae)