

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in Capsicum annum

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	24-METHYLENE-CYCLOARTANOL	Seed	--	--		
16	ACETIC-ACID	Fruit	--	--		
19	ACETYL-CHOLINE	Pericarp	--	15	-1	
19	ACETYL-CHOLINE	Seed	--	105	0.5835650056778248	
3	ALANINE	Fruit	350	4774	0.41916448807939843	
7	ALPHA-CAROTENE	Fruit	0.2	20	2.436266539567189	
2	ALPHA-CRYPTOXANTHIN	Plant	--	--		
2	ALPHA-CRYPTOXANTHIN	Fruit	1	25		
15	ALPHA-LINOLENIC-ACID	Fruit	220	3001	0.20656945687815753	USDA's Ag Handbook 8 and sequelae)
11	ALPHA-PHELLANDRENE	Fruit	--	--		
28	ALPHA-PINENE	Fruit	--	--		
23	ALPHA-TERPINEOL	Fruit	--	--		
32	ALPHA-TOCOPHEROL	Fruit	22	284	3.249804110897653	
5	ALUMINUM	Fruit	--	--		
1	ANTHERAXANTHIN	Fruit	0.5	165		
4	APIIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
14	ARGININE	Fruit	410	5592	0.34202092362066183	USDA's Ag Handbook 8 and sequelae)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ARSENIC	Fruit	0.004	0.015	-0.5177009203400424	
112	ASCORBIC-ACID	Fruit	230	20982	1.0201086559741077	
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	16504	0.8336382798513058	
1	BEHENIC-ACID	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
24	BENZALDEHYDE	Fruit	--	--		
9	BETA-AMYRIN	Seed	--	--		
53	BETA-CAROTENE	Fruit	25	95	0.032832659233001486	
2	BETA-CRYPTOXANTHIN	Fruit	1	510	1	
13	BETA-PINENE	Fruit	--	--		
47	BETA-SITOSTEROL	Plant	--	--		
47	BETA-SITOSTEROL	Fruit	60	1190	0.7692772928142692	
14	BETAINE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
4	BORON	Fruit	1	18	0.6859947425378856	
3	CADMIUM	Fruit	0.005	0.33	0.32622088213907097	
102	CAFFEIC-ACID	Fruit	11	11	-0.3368770543074836	
28	CALCIUM	Fruit	431	1670	-0.5045082674838655	
2	CAMPESTEROL	Fruit	20	530	3.841640034312409	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	CAMPHENE	Fruit	--	--		
44	CAPSAICIN	Fruit	100	4000	-1	
44	CAPSAICIN	Tissue Culture	0.59	590		
44	CAPSAICIN	Resin, Exudate, Sap	634000	634000		
2	CAPSANTHIN	Fruit	1	2820		
1	CAPSANOSIDE-A	Fruit	33	250		
1	CAPSANOSIDE-C	Fruit	35	103		
1	CAPSANOSIDE-D	Fruit	21	38		
1	CAPSANOSIDE-I	Fruit	18	18		
3	CAPSIDIOL	Fruit	29	29		
3	CAPSIDIOL	Tissue Culture	--	--		
1	CAPSORUBIN	Fruit	--	260		
31	CARYOPHYLLENE	Fruit	--	--		
77	CHLOROGENIC-ACID	Fruit	--	--		
77	CHLOROGENIC-ACID	Leaf	--	--		
21	CHLOROPHYLL	Fruit	--	195	0.22124854097919466	
20	CHOLINE	Pericarp	297	297	-1	
20	CHOLINE	Seed	360	360	-1.2352144104006983	
24	CHROMIUM	Fruit	--	--	-0.5076332138804538	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	CINNAMIC-ACID	Tissue Culture	--	--		
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	--	--		
2	COBALT	Fruit	4	15.1	1.2928795988960315	
12	COPPER	Fruit	0.5	20	0.5588968590110831	
2	CRYPTOXANTHIN	Fruit	--	--		
7	CYCLOARTENOL	Seed	--	--		
3	CYCLOEUCALENOL	Seed	--	--		
3	CYNAROSIDE	Leaf	--	--		
2	CYSTINE	Fruit	160	2182	1.2003774411002974	USDA's Ag Handbook 8 and sequelae)
8	DELTA-3-CARENE	Fruit	--	--		
1	DIHYDROCAPSAICIN	Fruit	75	1628		
1	DIHYDROCAPSAICIN	Resin, Exudate, Sap	328000	318000		
1	DIHYDROCAPSAICIN	Tissue Culture	--	--		
1	EPSILON-CAROTENE	Fruit	--	--		
6	ETHYL-ACETATE	Fruit	--	--		
76	EUGENOL	Fruit	--	--		
15	FIBER	Fruit	12000	351000	1.975278288083942	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	FOLACIN	Fruit	--	3	0.3894543457310426	USDA's Ag Handbook 8 and sequelae)
1	GALACTOSE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
11	GAMMA-TERPINENE	Fruit	--	--		
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	15277	0.15870222657295222	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Fruit	310	4228	0.24116126345948113	
18	GUAIACOL	Fruit	--	--		
31	HESPERIDIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	HEXANAL	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
2	HEXANOIC-ACID	Fruit	--	--		
7	HISTIDINE	Fruit	170	2319	0.4251522813518472	
6	IRON	Fruit	4	14	-0.47195395604815815	
3	ISOLEUCINE	Fruit	270	3683	0.013574129648896245	USDA's Ag Handbook 8 and sequelae)
4	L-ASPARAGINASE	Fruit	--	--		
1	LANOSTEROL	Seed	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	LEUCINE	Fruit	440	6002	0.19151009080138937	USDA's Ag Handbook 8 and sequelae)
3	LIGUSTRAZINE	Fruit	--	--		
60	LIMONENE	Fruit	--	--		
53	LINALOOL	Fruit	--	--		
27	LINOLEIC-ACID	Fruit	2190	29871	0.06603462603214637	
11	LITHIUM	Fruit	0.284	0.4	-0.5556718414322324	
21	LUPEOL	Seed	--	--		
15	LUTEIN	Fruit	3.4	50	3.4855553704728424	
78	LUTEOLIN	Fruit	11	11		
4	LYSINE	Fruit	380	5183	0.27674261896008856	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Fruit	604	2340	0.0973640583480707	
1	MALONIC-ACID	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	MALONIC-ACID	Leaf	--	--		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	
1	MERCURY	Fruit	0.001	0.001	-0.7865389313824043	
15	METHIONINE	Fruit	100	1364	0.49932054232266115	USDA's Ag Handbook 8 and sequelae)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	MOLYBDENUM	Fruit	--	15	2.521090498809608	
22	MYRCENE	Fruit	--	--		
34	MYRICETIN	Fruit	1	1	-0.6882411791853533	
6	MYRISTIC-ACID	Fruit	10	136	-0.262727790139001	
1	NAPHTHALENE	Fruit	--	--		
2	NEOXANTHIN	Fruit	--	18	1	
39	NIACIN	Fruit	21	80	0.25803272913297753	
3	NICKEL	Fruit	0.05	5.5	0.893202335058218	
6	O-CRESOL	Fruit	--	--		
5	OCTANOIC-ACID	Fruit	--	--		
18	OLEIC-ACID	Fruit	270	3582	-0.4531374874534312	
18	OLEIC-ACID	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	OXALIC-ACID	Fruit	257	1171	-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.
25	P-COUMARIC-ACID	Fruit	79	79	-0.3401508451648206	
8	P-CRESOL	Fruit	--	--		
16	P-CYMENE	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	PALMITIC-ACID	Fruit	500	6820	-0.2593626333971022	
13	PALMITIC-ACID	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	PALMITOLEIC-ACID	Fruit	30	409	-0.27067772308159505	USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Fruit	--	5	-0.8358850147292255	USDA's Ag Handbook 8 and sequelae)
1	PENTADECANOIC-ACID	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
26	PHENOL	Fruit	--	--		
7	PHENYLALANINE	Fruit	260	3546	0.07637278495697446	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Fruit	784	3040	-0.053456578480128816	
5	PHYLLOQUINONE	Fruit	0.02	0.06	-0.22359887323159108	
2	PHYTOSTEROLS	Fruit	90	1750	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	5.2	-1.4134560119817663	
14	POTASSIUM	Fruit	3483	13500	-0.3907443973119217	
6	PROPIONIC-ACID	Fruit	--	--		
28	PULEGONE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
3	PYRIDINE	Fruit	--	--		
1	PYRROLIDINE	Fruit	1.4	1.4		
15	RIBOFLAVIN	Fruit	--	19	2.9963413996709614	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	RISHITIN	Tissue Culture	--	--		
1	RUBIXANTHIN	Fruit	--	--		
87	RUTIN	Fruit	--	3874	-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.
5	SABINENE	Fruit	--	--		
7	SALICYLATES	Fruit	6	100	-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	4638	0.351286486996007	
4	SILICON	Fruit	--	--		
3	SILVER	Fruit	0.071	0.1	-0.45980626251045253	
1	SODIUM	Fruit	152	590	-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	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	500	-1	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	SOLASODINE	Fruit	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	STEARIC-ACID	Fruit	160	2180	-0.1346481609392678	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
12	STIGMASTEROL	Fruit	10	180	1.3242602946608402	
14	SULFUR	Fruit	190	2440	0.7136799213892123	
23	TERPINEN-4-OL	Fruit	--	--		
9	TERPINOLENE	Fruit	--	--		
22	TETRAMETHYL-PYRAZINE	Fruit	--	--		
31	THIAMIN	Fruit	1	15	1.237464316955986	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Fruit	310	4228	0.5031132526815597	
4	TIN	Fruit	1.3	5	-0.3575360694452028	
93	TOCOPHEROL	Fruit	24	24	-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	0.6	-0.46893261236098505	
29	TRYPTOPHAN	Fruit	110	1500	0.911613449940336	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Fruit	180	2455	0.01503141767564613	USDA's Ag Handbook 8 and sequelae)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	VALINE	Fruit	360	4910	0.09429171805261376	
2	VIOLAXANTHIN	Fruit	2	205		
3	XANTHOPHYLL	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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	1	
77	ZINC	Fruit	2	7.7	-0.6799873909506287	