

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Cucurbita pepo

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	7BETA,12ALPHA-DIHYDROXYKAURENOLIDE	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
11	ADENINE	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
28	ADENOSINE	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
3	ALANINE	Seed	11580.0	24420.0	3.0321935802284528	--
3	ALANINE	Fruit	280.0	3333.0	-0.14718903027260638	USDA's Ag Handbook 8 and sequelae)
15	ALPHA-LINOLENIC-ACID	Seed	1810.0	2750.0	-0.27664797897567234	--
15	ALPHA-LINOLENIC-ACID	Fruit	30.0	357.0	-0.9907958760065699	USDA's Ag Handbook 8 and sequelae)
15	ALPHA-LINOLENIC-ACID	Flower	20.0	410.0		USDA's Ag Handbook 8 and sequelae)
2	ALPHA-SPINASTEROL	Seed				--
2	ALPHA-SPINASTEROL	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
32	ALPHA-TOCOPHEROL	Fruit	10.0	119.0	0.7100689146464441	USDA's Ag Handbook 8 and sequelae)
32	ALPHA-TOCOPHEROL	Stem				--
32	ALPHA-TOCOPHEROL	Leaf				--
5	ALUMINUM	Seed		11.0	-0.34533998793343856	--
14	ARGININE	Seed	40330.0	81280.0	2.3983290974128795	--
14	ARGININE	Fruit	370.0	6429.0	0.5652801717537763	--
112	ASCORBIC-ACID	Fruit	90.0	1071.0	-0.21789744626053537	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Flower	280.0	5773.0	0.9425150784106588	USDA's Ag Handbook 8 and sequelae)
3	ASPARTIC-ACID	Seed	24770.0	41080.0	1.6415504064239652	--
3	ASPARTIC-ACID	Fruit	1020.0	12143.0	0.26070734221460257	USDA's Ag Handbook 8 and sequelae)
53	BETA-CAROTENE	Seed	2.0	2.5	-0.27303542142102893	--
53	BETA-CAROTENE	Fruit	9.6	114.0	0.06955931690572935	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	BETA-CAROTENE	Flower	12.0	240.0	3.0920238881774016	--
2	BETA-CRYPTOXANTHIN	Flower				--
47	BETA-SITOSTEROL	Fruit		120.0	-0.6365753174526275	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
47	BETA-SITOSTEROL	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	BORON	Fruit		1.0	-0.7837717353775396	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages.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).
102	CAFFEIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
28	CALCIUM	Seed	240.0	2960.0	-0.21789520636618454	--
28	CALCIUM	Fruit	210.0	2500.0	-0.31297715768782586	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Flower	390.0	8041.0	0.6281259672638968	USDA's Ag Handbook 8 and sequelae)
2	CAMPESTEROL	Seed				--
1	CHOLESTEROL	Plant				--
24	CHROMIUM	Seed		17.0	1.7942136570807767	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	COBALT	Seed		143.0	5.996171444060427	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
12	COPPER	Seed	14.0	25.0	0.9238769354282156	--
2	CRYPTOXANTHIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	CRYPTOXANTHIN	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	CUCURBIC-ACID	Seed		1.2		--
2	CUCURBIC-ACID	Plant				--
4	CUCURBITACIN-D	Seed				--
6	CUCURBITACIN-I	Seed				--
3	CUCURBITIN	Seed	16600.0	66300.0		--
2	CYSTINE	Seed	3010.0	3234.0	0.05846459641621995	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Fruit	30.0	700.0	-0.3455775263586415	--
61	FERULIC-ACID	Plant				--
15	FIBER	Seed	19690.0	26538.0	-0.8546880226433043	--
15	FIBER	Fruit	11000.0	130952.0	-0.10120041632692214	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Flower	6300.0	130000.0	-0.01946664238399821	USDA's Ag Handbook 8 and sequelae)
22	GABA	Seed				--
22	GAMMA-AMINOBUTYRIC-ACID	Seed				--
14	GAMMA-TOCOPHEROL	Seed				--
8	GLUTAMIC-ACID	Seed	43150.0	101820.0	2.535958532664187	--
8	GLUTAMIC-ACID	Fruit	1840.0	35000.0	1.6935719269179679	--
7	GLUTATHIONE	Root				--
12	GLYCINE	Seed	17960.0	39220.0	4.087033113761383	--
12	GLYCINE	Fruit	270.0	8000.0	1.700314241568018	--
7	HISTIDINE	Seed	6810.0	9615.0	0.9280525151100297	--
7	HISTIDINE	Fruit	140.0	1905.0	0.13488863306666263	--
6	IRON	Seed	86.0	200.0	0.2286303167080437	--
6	IRON	Flower	7.0	144.0	-0.15678269834846398	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Seed	12640.0	19825.0	1.1909618444245489	--
3	ISOLEUCINE	Fruit	310.0	3690.0	0.015676544764510515	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
75	KAEMPFEROL	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	LAURIC-ACID	Seed	440.0	472.0	-0.5080982546591932	USDA's Ag Handbook 8 and sequelae)
7	LAURIC-ACID	Fruit	10.0	119.0	-0.4440571804777033	USDA's Ag Handbook 8 and sequelae)
7	LAURIC-ACID	Flower	10.0	205.0	1.0	USDA's Ag Handbook 8 and sequelae)
20	LECITHIN	Seed		4000.0	-0.6301994798460713	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	LEUCINE	Seed	20790.0	35835.0	1.7950676234415441	--
2	LEUCINE	Fruit	460.0	5476.0	0.07968869127701686	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Seed	33025.0	260000.0	1.309872196741342	--
27	LINOLEIC-ACID	Fruit	20.0	238.0	-0.35204205108428127	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Flower	20.0	410.0	-1.6272593881283386	USDA's Ag Handbook 8 and sequelae)
21	LUPEOL	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	LUTEIN	Flower				--
4	LYSINE	Seed	15580.0	21120.0	1.221995231537649	--
4	LYSINE	Fruit	470.0	6429.0	0.5994486783586378	--
65	MAGNESIUM	Flower	240.0	4950.0	1.5450101513045418	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Seed	5140.0	8500.0	2.194307935408216	--
65	MAGNESIUM	Fruit	120.0	1429.0	-0.32448187054974087	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Seed	40.0	100.0	0.5789731987465522	--
18	MANNITOL	Fruit	150000.0	200000.0	1.0000000000000002	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
15	METHIONINE	Seed	5195.0	7885.0	0.9218941593170248	--
15	METHIONINE	Fruit	110.0	1310.0	0.43282328158125916	--
13	MUFA	Seed	142580.0	153180.0	0.31654088954333737	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Fruit	130.0	1548.0	-0.23146990776316503	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Flower	90.0	1855.0	0.9258200997725515	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Flower	50.0	1030.0	1.0	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Seed	200.0	559.0	-0.28868542415273796	--
6	MYRISTIC-ACID	Fruit	60.0	714.0	-0.23546018231743712	USDA's Ag Handbook 8 and sequelae)
2	NEOXANTHIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
39	NIACIN	Seed	14.0	22.0	-0.6252053381989392	--
39	NIACIN	Fruit	6.0	71.0	0.1377183481002988	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Flower	7.0	142.0	0.4676432168231639	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Seed	70000.0	234570.0	0.949202915624086	--
18	OLEIC-ACID	Fruit	60.0	714.0	-0.4752421241865289	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Flower	40.0	825.0	-0.5618910849321588	USDA's Ag Handbook 8 and sequelae)
5	ORNITHINE	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
9	OXALIC-ACID	Juice		400.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	PALMITIC-ACID	Seed	44800.0	64530.0	0.6318622321962477	--
13	PALMITIC-ACID	Fruit	370.0	4405.0	-0.29695907602866173	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Flower	260.0	5360.0	1.5550797314583331	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Seed	990.0	1064.0	-0.2729267504653296	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Fruit	60.0	714.0	-0.21493257540335348	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	PALMITOLEIC-ACID	Flower	50.0	1030.0		USDA's Ag Handbook 8 and sequelae)
24	PECTIN	Seed		30000.0	-0.08222588577632582	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
7	PHENYLALANINE	Seed	12220.0	22845.0	1.3499663619426168	--
7	PHENYLALANINE	Fruit	300.0	3810.0	0.16793014424265534	--
3	PHEOPHYTIN-A	Plant				--
4	PHOSPHORUS	Seed	10600.0	12982.0	2.015938641351039	--
4	PHOSPHORUS	Fruit	440.0	5238.0	0.6141634764064872	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Flower	490.0	10100.0	2.686824447078974	USDA's Ag Handbook 8 and sequelae)
9	PHYTIC-ACID	Seed	15000.0	22000.0	0.3298576936665281	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	PHYTOSTEROLS	Fruit	120.0	1428.0	0.621756970445516	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Seed	5540.0	25000.0	1.0931328980431534	--
14	POTASSIUM	Fruit	3400.0	40476.0	1.9959201140166747	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Flower	1730.0	35670.0	1.6822865837086274	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Fruit	50.0	595.0	-0.7969298370757578	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Flower	40.0	825.0	-1.0752762105747442	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Seed	209040.0	224581.0	0.9047155639598008	USDA's Ag Handbook 8 and sequelae)
176	QUERCETIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	RIBOFLAVIN	Seed	2.7	4.9	0.5272746510341323	--
15	RIBOFLAVIN	Fruit	1.1	13.1	1.732758201315725	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Flower	0.7	15.0	2.063147597581711	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	SALICYLATES	Fruit	1.0	12.0	-0.3023324705158085	--
34	SALICYLIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
60	SELENIUM	Seed	0.08	0.4	-0.2598134032604234	--
1	SERINE	Seed	11480.0	19825.0	1.772899923635598	--
1	SERINE	Fruit	440.0	6100.0	0.8674481392454163	--
4	SILICON	Seed				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	SODIUM	Flower	50.0	1030.0	-0.014204700953778359	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Seed	180.0	193.0	-0.4093447105551685	--
1	SODIUM	Fruit	10.0	119.0	-0.17266615010321906	USDA's Ag Handbook 8 and sequelae)
10	SQUALENE	Seed				--
8	STEARIC-ACID	Seed	22670.0	30710.0	0.10091267774493513	--
8	STEARIC-ACID	Fruit	30.0	357.0	-0.2555459149836314	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Flower	20.0	410.0	0.8880673443552061	USDA's Ag Handbook 8 and sequelae)
12	STIGMASTEROL	Seed				--
14	SUCROSE	Seed		14000.0	-0.4987245937681623	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
31	THIAMIN	Seed	1.9	3.7	-0.6881088248838246	--
31	THIAMIN	Fruit	0.5	5.9	0.07261616317741888	USDA's Ag Handbook 8 and sequelae)
31	THIAMIN	Flower	0.4	8.6	0.9634191805054287	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Seed	6205.0	9701.0	0.3497572127196895	--
4	THREONINE	Fruit	250.0	3452.0	0.18053609503349416	--
4	TIN	Seed		23.0	2.787245020652214	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	TRIGONELLINE	Sprout Seedling				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
29	TRYPTOPHAN	Seed	4310.0	4630.0	0.44501745215638666	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Fruit	120.0	1800.0	1.3326475370102935	--
8	TYROSINE	Seed	9275.0	12235.0	1.041001842799917	--
8	TYROSINE	Fruit	130.0	5000.0	1.0696133056017336	--
3	VALINE	Seed	19720.0	22725.0	1.3194683797013413	--
3	VALINE	Fruit	350.0	4165.0	-0.059422351858102324	USDA's Ag Handbook 8 and sequelae)
2	VIOLAXANTHIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	XANTHOPHYLL	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	ZEAXANTHIN	Flower				--
77	ZINC	Seed	75.0	200.0	4.396731781476845	--