

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Cucurbita pepo

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Seed	75.0	200.0	4.396731781476845	--
5	ZEAXANTHIN	Flower				--
3	XANTHOPHYLL	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	VIOLAXANTHIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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)
8	TYROSINE	Seed	9275.0	12235.0	1.041001842799917	--
8	TYROSINE	Fruit	130.0	5000.0	1.0696133056017336	--
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	--
15	TRIGONELLINE	Sprout Seedling				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	TIN	Seed		23.0	2.787245020652214	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	THREONINE	Seed	6205.0	9701.0	0.3497572127196895	--
4	THREONINE	Fruit	250.0	3452.0	0.18053609503349416	--
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)
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.
12	STIGMASTEROL	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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)
10	SQUALENE	Seed				--
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)
1	SODIUM	Flower	50.0	1030.0	-0.014204700953778359	USDA's Ag Handbook 8 and sequelae)
4	SILICON	Seed				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	SERINE	Seed	11480.0	19825.0	1.772899923635598	--
1	SERINE	Fruit	440.0	6100.0	0.8674481392454163	--
60	SELENIUM	Seed	0.08	0.4	-0.2598134032604234	--
34	SALICYLIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	SALICYLATES	Fruit	1.0	12.0	-0.3023324705158085	--
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)
176	QUERCETIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	PUFA	Seed	209040.0	224581.0	0.9047155639598008	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)
14	POTASSIUM	Fruit	3400.0	40476.0	1.9959201140166747	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	POTASSIUM	Flower	1730.0	35670.0	1.6822865837086274	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Seed	5540.0	25000.0	1.0931328980431534	--
2	PHYTOSTEROLS	Fruit	120.0	1428.0	0.621756970445516	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.
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)
3	PHEOPHYTIN-A	Plant				--
7	PHENYLALANINE	Seed	12220.0	22845.0	1.3499663619426168	--
7	PHENYLALANINE	Fruit	300.0	3810.0	0.16793014424265534	--
24	PECTIN	Seed		30000.0	-0.08222588577632582	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
2	PALMITOLEIC-ACID	Flower	50.0	1030.0		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)
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)
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.
5	ORNITHINE	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
18	OLEIC-ACID	Seed	70000.0	234570.0	0.949202915624086	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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)
39	NIACIN	Flower	7.0	142.0	0.4676432168231639	USDA's Ag Handbook 8 and sequelae)
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)
2	NEOXANTHIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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)
6	MYRISTIC-ACID	Flower	50.0	1030.0	1.0	USDA's Ag Handbook 8 and sequelae)
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)
15	METHIONINE	Seed	5195.0	7885.0	0.9218941593170248	--
15	METHIONINE	Fruit	110.0	1310.0	0.43282328158125916	--
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.
14	MANGANESE	Seed	40.0	100.0	0.5789731987465522	--
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)
65	MAGNESIUM	Flower	240.0	4950.0	1.5450101513045418	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Seed	15580.0	21120.0	1.221995231537649	--
4	LYSINE	Fruit	470.0	6429.0	0.5994486783586378	--
15	LUTEIN	Flower				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
21	LUPEOL	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
27	LINOLEIC-ACID	Flower	20.0	410.0	-1.6272593881283386	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)
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)
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.
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)
75	KAEMPFEROL	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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)
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)
7	HISTIDINE	Seed	6810.0	9615.0	0.9280525151100297	--
7	HISTIDINE	Fruit	140.0	1905.0	0.13488863306666263	--
12	GLYCINE	Seed	17960.0	39220.0	4.087033113761383	--
12	GLYCINE	Fruit	270.0	8000.0	1.700314241568018	--
7	GLUTATHIONE	Root				--
8	GLUTAMIC-ACID	Seed	43150.0	101820.0	2.535958532664187	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	GLUTAMIC-ACID	Fruit	1840.0	35000.0	1.6935719269179679	--
14	GAMMA-TOCOPHEROL	Seed				--
22	GAMMA-AMINOBUTYRIC-ACID	Seed				--
22	GABA	Seed				--
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)
61	FERULIC-ACID	Plant				--
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	--
3	CUCURBITIN	Seed	16600.0	66300.0		--
6	CUCURBITACIN-I	Seed				--
4	CUCURBITACIN-D	Seed				--
2	CUCURBIC-ACID	Plant				--
2	CUCURBIC-ACID	Seed		1.2		--
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				--
12	COPPER	Seed	14.0	25.0	0.9238769354282156	--
2	COBALT	Seed		143.0	5.996171444060427	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
24	CHROMIUM	Seed		17.0	1.7942136570807767	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	CHOLESTEROL	Plant				--
2	CAMPESTEROL	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	CALCIUM	Flower	390.0	8041.0	0.6281259672638968	USDA's Ag Handbook 8 and sequelae)
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)
102	CAFFEIC-ACID	Leaf				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).
47	BETA-SITOSTEROL	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.)
2	BETA-CRYPTOXANTHIN	Flower				--
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)
53	BETA-CAROTENE	Flower	12.0	240.0	3.0920238881774016	--
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)
112	ASCORBIC-ACID	Flower	280.0	5773.0	0.9425150784106588	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Fruit	90.0	1071.0	-0.21789744626053537	USDA's Ag Handbook 8 and sequelae)
14	ARGININE	Seed	40330.0	81280.0	2.3983290974128795	--
14	ARGININE	Fruit	370.0	6429.0	0.5652801717537763	--
5	ALUMINUM	Seed		11.0	-0.34533998793343856	--
32	ALPHA-TOCOPHEROL	Fruit	10.0	119.0	0.7100689146464441	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
32	ALPHA-TOCOPHEROL	Stem				--
32	ALPHA-TOCOPHEROL	Leaf				--
2	ALPHA-SPINASTEROL	Seed				--
2	ALPHA-SPINASTEROL	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
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)
3	ALANINE	Fruit	280.0	3333.0	-0.14718903027260638	USDA's Ag Handbook 8 and sequelae)
3	ALANINE	Seed	11580.0	24420.0	3.0321935802284528	--
28	ADENOSINE	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
11	ADENINE	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
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.