

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Cucurbita pepo

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
27	LINOLEIC-ACID	Seed	33025.0	260000.0	1.309872196741342	--
18	OLEIC-ACID	Seed	70000.0	234570.0	0.949202915624086	--
4	PUFA	Seed	209040.0	224581.0	0.9047155639598008	USDA's Ag Handbook 8 and sequelae)
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.
13	MUFA	Seed	142580.0	153180.0	0.31654088954333737	USDA's Ag Handbook 8 and sequelae)
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)
8	GLUTAMIC-ACID	Seed	43150.0	101820.0	2.535958532664187	--
14	ARGININE	Seed	40330.0	81280.0	2.3983290974128795	--
3	CUCURBITIN	Seed	16600.0	66300.0		--
13	PALMITIC-ACID	Seed	44800.0	64530.0	0.6318622321962477	--
3	ASPARTIC-ACID	Seed	24770.0	41080.0	1.6415504064239652	--
14	POTASSIUM	Fruit	3400.0	40476.0	1.9959201140166747	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Seed	17960.0	39220.0	4.087033113761383	--
2	LEUCINE	Seed	20790.0	35835.0	1.7950676234415441	--
14	POTASSIUM	Flower	1730.0	35670.0	1.6822865837086274	USDA's Ag Handbook 8 and sequelae)
8	GLUTAMIC-ACID	Fruit	1840.0	35000.0	1.6935719269179679	--
8	STEARIC-ACID	Seed	22670.0	30710.0	0.10091267774493513	--
24	PECTIN	Seed		30000.0	-0.08222588577632582	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
15	FIBER	Seed	19690.0	26538.0	-0.8546880226433043	--
14	POTASSIUM	Seed	5540.0	25000.0	1.0931328980431534	--
3	ALANINE	Seed	11580.0	24420.0	3.0321935802284528	--
7	PHENYLALANINE	Seed	12220.0	22845.0	1.3499663619426168	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	VALINE	Seed	19720.0	22725.0	1.3194683797013413	--
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	LYSINE	Seed	15580.0	21120.0	1.221995231537649	--
3	ISOLEUCINE	Seed	12640.0	19825.0	1.1909618444245489	--
1	SERINE	Seed	11480.0	19825.0	1.772899923635598	--
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.
4	PHOSPHORUS	Seed	10600.0	12982.0	2.015938641351039	--
8	TYROSINE	Seed	9275.0	12235.0	1.041001842799917	--
3	ASPARTIC-ACID	Fruit	1020.0	12143.0	0.26070734221460257	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Flower	490.0	10100.0	2.686824447078974	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Seed	6205.0	9701.0	0.3497572127196895	--
7	HISTIDINE	Seed	6810.0	9615.0	0.9280525151100297	--
65	MAGNESIUM	Seed	5140.0	8500.0	2.194307935408216	--
28	CALCIUM	Flower	390.0	8041.0	0.6281259672638968	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Fruit	270.0	8000.0	1.700314241568018	--
15	METHIONINE	Seed	5195.0	7885.0	0.9218941593170248	--
14	ARGININE	Fruit	370.0	6429.0	0.5652801717537763	--
4	LYSINE	Fruit	470.0	6429.0	0.5994486783586378	--
1	SERINE	Fruit	440.0	6100.0	0.8674481392454163	--
112	ASCORBIC-ACID	Flower	280.0	5773.0	0.9425150784106588	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Fruit	460.0	5476.0	0.07968869127701686	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Flower	260.0	5360.0	1.5550797314583331	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Fruit	440.0	5238.0	0.6141634764064872	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	TYROSINE	Fruit	130.0	5000.0	1.0696133056017336	--
65	MAGNESIUM	Flower	240.0	4950.0	1.5450101513045418	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Seed	4310.0	4630.0	0.44501745215638666	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Fruit	370.0	4405.0	-0.29695907602866173	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Fruit	350.0	4165.0	-0.059422351858102324	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	PHENYLALANINE	Fruit	300.0	3810.0	0.16793014424265534	--
3	ISOLEUCINE	Fruit	310.0	3690.0	0.015676544764510515	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Fruit	250.0	3452.0	0.18053609503349416	--
3	ALANINE	Fruit	280.0	3333.0	-0.14718903027260638	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Seed	3010.0	3234.0	0.05846459641621995	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Seed	240.0	2960.0	-0.21789520636618454	--
15	ALPHA-LINOLENIC-ACID	Seed	1810.0	2750.0	-0.27664797897567234	--
28	CALCIUM	Fruit	210.0	2500.0	-0.31297715768782586	USDA's Ag Handbook 8 and sequelae)
7	HISTIDINE	Fruit	140.0	1905.0	0.13488863306666263	--
13	MUFA	Flower	90.0	1855.0	0.9258200997725515	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Fruit	120.0	1800.0	1.3326475370102935	--
13	MUFA	Fruit	130.0	1548.0	-0.23146990776316503	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Fruit	120.0	1429.0	-0.32448187054974087	USDA's Ag Handbook 8 and sequelae)
2	PHYTOSTEROLS	Fruit	120.0	1428.0	0.621756970445516	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Fruit	110.0	1310.0	0.43282328158125916	--
112	ASCORBIC-ACID	Fruit	90.0	1071.0	-0.21789744626053537	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Seed	990.0	1064.0	-0.2729267504653296	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SODIUM	Flower	50.0	1030.0	-0.014204700953778359	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Flower	50.0	1030.0		USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Flower	50.0	1030.0	1.0	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Flower	40.0	825.0	-0.5618910849321588	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Flower	40.0	825.0	-1.0752762105747442	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Fruit	60.0	714.0	-0.4752421241865289	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Fruit	60.0	714.0	-0.21493257540335348	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Fruit	60.0	714.0	-0.23546018231743712	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Fruit	30.0	700.0	-0.3455775263586415	--
4	PUFA	Fruit	50.0	595.0	-0.7969298370757578	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Seed	200.0	559.0	-0.28868542415273796	--
7	LAURIC-ACID	Seed	440.0	472.0	-0.5080982546591932	USDA's Ag Handbook 8 and sequelae)
15	ALPHA-LINOLENIC-ACID	Flower	20.0	410.0		USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Flower	20.0	410.0	-1.6272593881283386	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Flower	20.0	410.0	0.8880673443552061	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.
15	ALPHA-LINOLENIC-ACID	Fruit	30.0	357.0	-0.9907958760065699	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Fruit	30.0	357.0	-0.2555459149836314	USDA's Ag Handbook 8 and sequelae)
53	BETA-CAROTENE	Flower	12.0	240.0	3.0920238881774016	--
27	LINOLEIC-ACID	Fruit	20.0	238.0	-0.35204205108428127	USDA's Ag Handbook 8 and sequelae)
7	LAURIC-ACID	Flower	10.0	205.0	1.0	USDA's Ag Handbook 8 and sequelae)
6	IRON	Seed	86.0	200.0	0.2286303167080437	--
77	ZINC	Seed	75.0	200.0	4.396731781476845	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SODIUM	Seed	180.0	193.0	-0.4093447105551685	--
6	IRON	Flower	7.0	144.0	-0.15678269834846398	USDA's Ag Handbook 8 and sequelae)
2	COBALT	Seed		143.0	5.996171444060427	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
39	NIACIN	Flower	7.0	142.0	0.4676432168231639	USDA's Ag Handbook 8 and sequelae)
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.)
1	SODIUM	Fruit	10.0	119.0	-0.17266615010321906	USDA's Ag Handbook 8 and sequelae)
7	LAURIC-ACID	Fruit	10.0	119.0	-0.4440571804777033	USDA's Ag Handbook 8 and sequelae)
32	ALPHA-TOCOPHEROL	Fruit	10.0	119.0	0.7100689146464441	USDA's Ag Handbook 8 and sequelae)
53	BETA-CAROTENE	Fruit	9.6	114.0	0.06955931690572935	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Seed	40.0	100.0	0.5789731987465522	--
39	NIACIN	Fruit	6.0	71.0	0.1377183481002988	USDA's Ag Handbook 8 and sequelae)
12	COPPER	Seed	14.0	25.0	0.9238769354282156	--
4	TIN	Seed		23.0	2.787245020652214	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
39	NIACIN	Seed	14.0	22.0	-0.6252053381989392	--
24	CHROMIUM	Seed		17.0	1.7942136570807767	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
15	RIBOFLAVIN	Flower	0.7	15.0	2.063147597581711	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Fruit	1.1	13.1	1.732758201315725	USDA's Ag Handbook 8 and sequelae)
7	SALICYLATES	Fruit	1.0	12.0	-0.3023324705158085	--
5	ALUMINUM	Seed		11.0	-0.34533998793343856	--
31	THIAMIN	Flower	0.4	8.6	0.9634191805054287	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
31	THIAMIN	Fruit	0.5	5.9	0.07261616317741888	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Seed	2.7	4.9	0.5272746510341323	--
31	THIAMIN	Seed	1.9	3.7	-0.6881088248838246	--
53	BETA-CAROTENE	Seed	2.0	2.5	-0.27303542142102893	--
2	CUCURBIC-ACID	Seed		1.2		--
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).
60	SELENIUM	Seed	0.08	0.4	-0.2598134032604234	--
22	GABA	Seed				--
2	ALPHA-SPINASTEROL	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
21	LUPEOL	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	ZEAXANTHIN	Flower				--
2	CRYPTOXANTHIN	Seed				--
3	XANTHOPHYLL	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
4	SILICON	Seed				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	VIOLAXANTHIN	Flower				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
1	CHOLESTEROL	Plant				--
32	ALPHA-TOCOPHEROL	Stem				--
32	ALPHA-TOCOPHEROL	Leaf				--
7	GLUTATHIONE	Root				--
61	FERULIC-ACID	Plant				--
14	GAMMA-TOCOPHEROL	Seed				--
12	STIGMASTEROL	Seed				--
6	CUCURBITACIN-I	Seed				--
10	SQUALENE	Seed				--
4	CUCURBITACIN-D	Seed				--
34	SALICYLIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
28	ADENOSINE	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
2	NEOXANTHIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
102	CAFFEIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
11	ADENINE	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
2	BETA-CRYPTOXANTHIN	Flower				--
2	CUCURBIC-ACID	Plant				--
3	PHEOPHYTIN-A	Plant				--
47	BETA-SITOSTEROL	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	CAMPESTEROL	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	CRYPTOXANTHIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	TRIGONELLINE	Sprout Seedling				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	ALPHA-SPINASTEROL	Seed				--
5	ORNITHINE	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
15	LUTEIN	Flower				--
176	QUERCETIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
22	GAMMA-AMINOBUTYRIC-ACID	Seed				--
75	KAEMPFEROL	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.