

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Zea mays

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	PANTOTHENIC-ACID	Seed	4.0	34.0	1.8074305020007495	USDA's Ag Handbook 8 and sequelae)
2	ARSENIC	Seed	0.001	0.211	1.5951685300488623	--
14	GAMMA-TOCOPHEROL	Oil		752.0	1.413007494257776	--
2	TRANS-FERULIC-ACID	Seed		1800.0	1.3913139699802963	--
15	FIBER	Silk Stigma Style		81000.0	1.0	--
13	LIGNIN	Stem	213000.0	245000.0	0.9696172791853698	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
39	NIACIN	Seed	16.0	71.0	0.8415661421509846	--
16	VANADIUM	Seed	0.05	1.35	0.6938324504308431	--
12	COPPER	Fruit	0.0	20.0	0.5588968590110831	--
1	SODIUM	Seed	0.0	757.0	0.48595911191753866	--
3	ALANINE	Seed	2950.0	12272.0	0.44977179228929015	USDA's Ag Handbook 8 and sequelae)
2	MOLYBDENUM	Seed	0.084	6.3	0.4479349477443534	--
31	THIAMIN	Fruit	2.0	8.0	0.3414272755878574	--
3	NICKEL	Seed	0.12	6.3	0.2960271506106448	--
3	CADMIUM	Seed	0.0	1.0	0.16237947527784696	--
2	PHYTOSTEROLS	Seed	600.0	2800.0	0.11866310014704903	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
14	MANGANESE	Seed	0.84	63.0	0.11807339481595111	--
5	ALUMINUM	Seed	1.0	275.0	0.09410564288080694	--
2	CAMPESTEROL	Seed		320.0	0.03885369220474866	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
1	METHYL-AMINE	Seed		27.0	-0.00897230932189183	--
15	FOLACIN	Fruit	1.0	2.0	-0.019192793995839758	--
14	POTASSIUM	Seed	2400.0	11450.0	-0.09850155432250932	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
47	BETA-SITOSTEROL	Seed		1200.0	-0.17049741772155916	--
14	BETAINE	Shoot		234.0	-0.18096389196058713	--
3	SILVER	Seed	0.012	0.055	-0.18268699040920042	--
14	SULFUR	Fruit	6.0	1140.0	-0.19109679700613894	--
15	RIBOFLAVIN	Fruit	1.0	4.0	-0.21615825716438572	--
5	PHYLLOQUINONE	Fruit		0.003	-0.2325377501021479	--
2	LEUCINE	Seed	3480.0	14477.0	-0.24929490146930922	USDA's Ag Handbook 8 and sequelae)
60	SELENIUM	Seed	0.0	0.5	-0.2588230372812833	--
12	STIGMASTEROL	Seed		210.0	-0.2634086805935878	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
53	BETA-CAROTENE	Seed	0.5	2.5	-0.27303542142102893	--
12	IODINE	Seed		0.012	-0.2773081368232745	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
112	ASCORBIC-ACID	Seed	0.0	85.0	-0.28742699640223446	--
1	MERCURY	Seed	0.0	0.072	-0.30034903182835404	--
9	OXALIC-ACID	Fruit		99.0	-0.3008899412935749	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.
15	ALPHA-LINOLENIC-ACID	Seed	160.0	666.0	-0.3177446681679559	USDA's Ag Handbook 8 and sequelae)
32	ALPHA-TOCOPHEROL	Oil	90.0	257.0	-0.32062252332922786	--
7	SALICYLATES	Fruit	1.0	5.0	-0.3224047195908981	--
2	DIMETHYL-AMINE	Seed	1.1	3.5	-0.32293776451998035	--
4	PHOSPHORUS	Seed	600.0	4066.0	-0.34019475720359266	--
23	FOLIC-ACID	Seed	0.142	0.4	-0.3564545774203745	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	BETAINE	Root		59.0	-0.3636422915694051	--
9	PHYTIC-ACID	Seed	7200.0	12900.0	-0.3647475557448543	--
15	METHIONINE	Seed	670.0	2787.0	-0.39450659411183164	USDA's Ag Handbook 8 and sequelae)
61	FERULIC-ACID	Seed	6.0	27.0	-0.39634822822137994	--
4	TIN	Seed	1.0	1.8	-0.39709066551927835	--
25	P-COUMARIC-ACID	Seed	4.0	46.0	-0.4061463765475915	--
20	CHOLINE	Root		36.0	-0.4093082994350739	--
4	BORON	Seed	0.0	15.0	-0.4322002310973592	--
2	COBALT	Fruit	0.01	0.8	-0.43826781025666195	--
24	CHROMIUM	Seed	0.0	1.65	-0.442125919797465	--
7	CHLORINE	Fruit		330.0	-0.4646995262356249	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	TRIGONELLINE	Seed		4.0	-0.46810441555051263	--
6	IRON	Seed	5.0	41.0	-0.5101323955139533	--
3	VALINE	Seed	1850.0	7696.0	-0.5315006159571728	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Seed	100.0	1600.0	-0.531836823348677	--
13	PALMITIC-ACID	Seed	1710.0	7114.0	-0.5528161466254179	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed	110.0	457.0	-0.5554746921056529	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Seed	1230.0	5117.0	-0.6078994158411758	USDA's Ag Handbook 8 and sequelae)
14	SUCROSE	Fruit	9000.0	19000.0	-0.6121007856075014	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	THREONINE	Seed	1290.0	5366.0	-0.6199585002377315	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Seed	1500.0	6240.0	-0.6329654729366279	USDA's Ag Handbook 8 and sequelae)
8	GLUTAMIC-ACID	Seed	6360.0	26457.0	-0.6436731379916952	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	HISTIDINE	Seed	890.0	3702.0	-0.6439051932934873	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Seed	1290.0	5366.0	-0.654028618470496	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
20	CHOLINE	Shoot		85.0	-0.6541437736274379	--
102	CAFFEIC-ACID	Shoot		0.7	-0.7034493867354843	--
25	P-COUMARIC-ACID	Shoot		1.0	-0.7071067811865475	Jim Duke's personal files.
77	ZINC	Seed	4.0	20.0	-0.7135039207289134	--
27	LINOLEIC-ACID	Seed	5420.0	22547.0	-0.724648681207493	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Seed	10.0	181.0	-0.7282806437807207	--
1	SERINE	Seed	1530.0	6365.0	-0.8067159497282409	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Seed	230.0	957.0	-0.8075994083741	--
14	ARGININE	Seed	1310.0	5450.0	-0.8125917351666905	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Seed	1270.0	5283.0	-0.8196658866632359	USDA's Ag Handbook 8 and sequelae)
7	GLUCOSE	Fruit	2000.0	5000.0	-0.8420433042200329	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
18	OLEIC-ACID	Seed	3470.0	14435.0	-0.8604360359565065	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Seed	1370.0	5699.0	-0.8668614509130552	USDA's Ag Handbook 8 and sequelae)
8	FRUCTOSE	Fruit	1000.0	4000.0	-0.878981825433364	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	FOLACIN	Seed	0.142	0.4	-0.9100137393533284	--
24	PECTIN	Leaf	10000.0	17000.0	-0.9298021026280799	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
11	LITHIUM	Seed	0.048	0.22	-0.9999999999999998	--
31	THIAMIN	Silk Stigma Style		2.1	-0.9999999999999999	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	RIBOFLAVIN	Silk Stigma Style		1.5	-1.0	--
1	RAFFINOSE	Fruit	1000.0	3000.0	-1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
14	MANGANESE	Silk Stigma Style		34.0	-1.0	--
5	PHYLLOQUINONE	Oil		0.03	-1.0603756768844963	--
3	ASPARTIC-ACID	Seed	2440.0	10150.0	-1.1042764584247933	USDA's Ag Handbook 8 and sequelae)
20	CHOLINE	Seed		430.0	-1.1693297391425415	--
2	CYSTINE	Seed	260.0	1082.0	-1.438643753064175	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Seed				--
7	INDOLE-3-ACETIC-ACID	Seed				--
4	TRYPTAMINE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
8	ESTRONE	Seed Oil		0.04		--
31	CARYOPHYLLENE	Husk Essent. Oil				--
10	SQUALENE	Seed				--
2	PHENYL-ACETALDEHYDE	Silk Essent. Oil		1000.0		--
1	CINNAMIC-ACID-ETHYL-ESTER	Silk Stigma Style				--
2	PHENYL-ACETALDEHYDE	Seed Essent. Oil				--
24	BENZALDEHYDE	Silk Essent. Oil		1000.0		--
1	CHOLESTEROL	Root				--
12	STIGMASTEROL	Seed Oil				--
14	SUCROSE	Leaf				--
7	RICINOLEIC-ACID	Plant				--
37	CARVACROL	Seed				--
13	LIGNIN	Cob				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
176	QUERCETIN	Pollen Or Spore				--
1	MALONIC-ACID	Plant				--
5	CYANIN	Cob				--
2	GERANYL-ACETONE	Husk Essent. Oil				--
1	5-O-CAFFEYLQUINIC-ACID	Plant				--
31	CARYOPHYLLENE	Leaf				--
1	LEUCOPELARGONIDIN	Plant				--
43	PYRIDOXINE	Cob	1.0	3.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
22	MYRCENE	Seed				--
15	INDOLE	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
6	TARTARIC-ACID	Silk Stigma Style				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
5	ERGOSTEROL	Silk Stigma Style				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
4	ZEARALENONE	Plant				--
1	SPERMINE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	PHENETHYL-ALCOHOL	Silk Stigma Style				--
24	CHROMIUM	Silk Stigma Style		13.0		--
2	PHENYL-ACETALDEHYDE	Husk Essent. Oil		13000.0		--
7	ASTRAGALIN	Pollen Or Spore				--
77	CHLOROGENIC-ACID	Silk Stigma Style				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	STIGMASTEROL	Shoot				--
2	RIBONUCLEASE	Tissue Culture				--
4	ORIENTIN	Silk Stigma Style				--
13	BETA-IONONE	Silk Stigma Style				--
23	ALPHA-TERPINEOL	Silk Stigma Style				--
5	ZEAXANTHIN	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
15	MALIC-ACID	Plant				--
2	GERANYL-ACETONE	Seed				--
8	STEARIC-ACID	Silk Stigma Style				--
47	BETA-SITOSTEROL	Silk Stigma Style		1300.0		--
13	GERANIAL	Husk Essent. Oil				--
4	4-VINYL-GUAIACOL	Seed				--
1	LEUCOCYANIDIN	Plant				--
1	CYCLOSADOL	Seed Oil				--
43	PROTocatechuic-ACID	Tissue Culture				--
7	CYANIDIN	Silk Stigma Style				--
8	HORDENINE	Silk Stigma Style				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
3	SUBAPHYLLIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
5	ERGOSTEROL	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	VANILLIN	Cob				--
1	SPERMIDINE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	PELARGONIDIN	Silk Stigma Style				--
1	NAPHTHALENE	Seed Essent. Oil				--
77	CHLOROGENIC-ACID	Leaf				--
12	STIGMASTEROL	Root				--
28	CALCIUM	Silk Stigma Style		2520.0		--
13	BETA-IONONE	Husk Essent. Oil		12000.0		--
28	ALPHA-PINENE	Husk Essent. Oil				--
15	MALIC-ACID	Silk Stigma Style				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
65	MAGNESIUM	Silk Stigma Style		1790.0		--
35	GERANIOL	Silk Stigma Style				--
13	PALMITIC-ACID	Silk Stigma Style				--
13	BETA-PINENE	Silk Essent. Oil		3000.0		--
6	FURFURAL	Shoot				--
1	3-O-CAFFEYOYLQUINIC-ACID	Plant				--
5	ZEAXANTHIN	Plant				--
2	CAMPESTEROL	Shoot				--
6	SYRINGIC-ACID	Tissue Culture				--
14	POTASSIUM	Silk Stigma Style		12200.0		--
2	CRYPTOXANTHIN	Plant				--
2	METHYL-PHENYLACETATE	Silk Essent. Oil	30000.0	40000.0		--
28	VANILLIN	Shoot				--
1	SODIUM	Silk Stigma Style		130.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	NAPHTHALENE	Silk Stigma Style				--
112	ASCORBIC-ACID	Silk Stigma Style		11.0		--
2	CHELIDONIC-ACID	Root				--
10	SQUALENE	Pollen Or Spore				--
1	NICOTIANAMINE	Leaf				--
7	INDOLE-3-ACETIC-ACID	Juice				--
53	LINALOOL	Plant				Stitt, Paul. Why George should eat broccoli.
13	GERANIAL	Hull Husk				--
64	OLEANOLIC-ACID	Silk Stigma Style				--
13	BETA-IONONE	Plant				--
2	TRANS-BETA-FARNESENE	Root				--
67	1,8-CINEOLE	Silk Stigma Style				--
2	ZEATIN	Plant		0.014		--
1	LANOSTEROL	Plant				--
61	FERULIC-ACID	Sprout Seedling				--
24	BENZALDEHYDE	Husk Essent. Oil				--
4	SYRINGALDEHYDE	Seed				--
10	CROCETIN	Leaf				--
6	GUANIDINE	Plant				--
2	DIETHYL-AMINE	Seed				--
24	VANILLIC-ACID	Tissue Culture				--
1	NAPHTHALENE	Husk Essent. Oil				--
37	CARVACROL	Seed Essent. Oil				--
10	SQUALENE	Seed Oil				--
15	RIBOFLAVIN	Cob	1.0	3.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	INDOLE-3-ACETIC-ACID	Root				--
7	ALPHA-CAROTENE	Seed	0.5	2.5		--
15	INDOLE	Shoot				--
47	BETA-SITOSTEROL	Seed Oil				--
2	TRANS-FERULIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
13	BETA-IONONE	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
6	ETHYL-ACETATE	Shoot				--
3	XYLOSE	Plant				--
8	LACTIC-ACID	Plant				--
2	PHYTOHAEMAGGLUTININ	Silk Stigma Style				--
57	COUMARIN	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
18	GUAIACOL	Seed				--
9	DELTA-CADINENE	Leaf				--
1	ISOVALERALDEHYDE	Shoot				--
11	PANTOTHENIC-ACID	Cob	3.0	7.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
22	MYRCENE	Seed Essent. Oil				--
1	CALMODULIN	Pollen Or Spore		45.0		--
47	BETA-SITOSTEROL	Shoot				--
39	NIACIN	Silk Stigma Style		25.0		--
7	INDOLE-3-ACETIC-ACID	Cotyledon				--
10	ALPHA-AMYRIN	Plant				--
12	ALLANTOIN	Embryo				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	LUTEOLINIDIN	Silk Stigma Style				--
2	GAMMA-NONALACTONE	Silk Stigma Style				--
29	TRYPTOPHAN	Cotyledon				--
2	TRANS-BETA-FARNESENE	Leaf				--
13	BETA-IONONE	Silk Essent. Oil		1000.0		--
1	DECAN-1-AL	Husk Essent. Oil		24000.0		--
43	XANTHOTOXIN	Root				--
22	ISOQUERCITRIN	Plant				Stitt, Paul. Why George should eat broccoli.
61	FERULIC-ACID	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
53	LINALOOL	Leaf				--
4	PHOSPHORUS	Silk Stigma Style		287.0		--
4	GLYCOLIC-ACID	Silk Stigma Style				--
2	GLUTEN	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
1	DECAN-1-AL	Silk Essent. Oil	10000.0	90000.0		--
32	ALPHA-TOCOPHEROL	Seed Oil				--
4	SILICON	Silk Stigma Style		237.0		--
2	PALMITOLEIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CHOLESTEROL	Seed				--
22	MYRCENE	Husk Essent. Oil				--
102	CAFFEIC-ACID	Sprout Seedling				--
1	QUINIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	CADAVERINE	Plant				--
7	HISTIDINE	Embryo				--
12	ALLANTOIN	Seed				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
28	ADENOSINE	Leaf				--
15	LUTEIN	Leaf				--
62	GALLIC-ACID	Tissue Culture				--
3	INDOLE-3-BUTYRIC-ACID	Leaf				--
4	TIN	Silk Stigma Style				--
7	CYCLOARTENOL	Root				--
18	VITEXIN	Silk Stigma Style				--
76	EUGENOL	Seed				--
60	LIMONENE	Seed Essent. Oil				--
7	SUCCINIC-ACID	Plant				--
4	COIXOL	Plant				--
22	ISOQUERCITRIN	Pollen Or Spore				--
53	BETA-CAROTENE	Silk Stigma Style		0.0		--
5	DAUCOSTEROL	Silk Stigma Style		440.0		--
32	ALPHA-TOCOPHEROL	Seed				--
22	MYRCENE	Leaf				--
6	ANTHRANILIC-ACID	Leaf				--
3	4-HYDROXYBENZALDEHYDE	Cob				--
3	MAYSIN	Silk Stigma Style				--
2	QUERCETIN-3-O-BETA-D-GLUCOSIDE	Pollen Or Spore				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
39	NIACIN	Cob	4.0	16.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	GLUTATHIONE	Fruit				--
63	MENTHOL	Silk Stigma Style				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
1	GALACTOSE	Plant				--
3	INDOLE-3-BUTYRIC-ACID	Seed				--
5	24-METHYLENE-CYCLOARTANOL	Shoot				--
2	VIOLAXANTHIN	Leaf				--
6	IRON	Silk Stigma Style		504.0		--
1	ETHYL-PHENYLACETATE	Silk Essent. Oil	250000.0	740000.0		--
60	LIMONENE	Silk Stigma Style				--
2	PHOSPHATIDYL-CHOLINE	Plant				--
2	COBALT	Silk Stigma Style		64.0		--
9	PHYTIC-ACID	Pollen Or Spore		2600.0		--
8	GLYCEROL	Plant				--
2	GAMMA-CAROTENE	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
32	ALPHA-TOCOPHEROL	Fruit				--
60	SELENIUM	Silk Stigma Style		5.7		--
4	P-HYDROXYBENZALDEHYDE	Cob				--
2	CHELIDONIC-ACID	Shoot				--
15	METHIONINE	Pollen Or Spore				--
1	ANTHERAXANTHIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	BENZALDEHYDE	Shoot				--
3	MANNOSE	Plant	1.0	7.0		--
176	QUERCETIN	Plant				--
1	CYCLOSADOL	Seed				--
11	NEROLIDOL	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
4	BIOTIN	Cob	0.02	0.06		--
7	GLUTATHIONE	Root				--
28	ADENOSINE	Seed				--
63	MENTHOL	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
6	FURFURAL	Plant				--
7	CYANIDIN	Leaf				--
71	THYMOL	Silk Stigma Style				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
25	P-COUMARIC-ACID	Sprout Seedling				--
28	VANILLIN	Seed	4.0	31.0		Jim Duke's personal files.
6	ETHYL-ACETATE	Silk Stigma Style				--
60	LIMONENE	Husk Essent. Oil				--
9	BETA-AMYRIN	Shoot				--
2	BETA-CRYPTOXANTHIN	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
71	THYMOL	Seed Essent. Oil				--
1	CELLULOSE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	MELATONIN	Seed		0.001		Hattori, A., et. al. 1995. Identification of Melatonin in Plants and its Effects on Plasma Melatonin Levels and Binding to Melatonin Receptors in Vertebrates. Biochem. Mol. Biol. Int., 35(3): 627-634.
5	ALUMINUM	Silk Stigma Style		213.0		--
5	ALUMINUM	Leaf				--
7	GLUTATHIONE	Seed	54.0	169.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	CYCLOEUCALENOL	Shoot				--
2	NEOXANTHIN	Leaf				--
14	BETAINE	Silk Stigma Style				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
7	GLUCOSE	Sprout Seedling				--
11	ADENINE	Seed				--
60	LIMONENE	Silk Essent. Oil		7000.0		--
1	LIGNOCERIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	CAMPESTEROL	Seed Oil				--
71	THYMOL	Seed				--
1	PYRUVIC-ACID	Sprout Seedling				--
1	CHOLESTEROL	Shoot				--
24	VANILLIC-ACID	Sprout Seedling				--
24	ETHANOL	Silk Stigma Style				--
60	LIMONENE	Leaf				--
5	STARCH	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	PHENYL-ACETALDEHYDE	Plant				--
15	CITRONELLOL	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	PHENYLACETIC-ACID	Pollen Or Spore				--
1	BENZYL-FORMATE	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
12	STIGMASTEROL	Silk Stigma Style				--
4	SYRINGALDEHYDE	Cob				--
5	SABINOL	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
37	CARVACROL	Silk Stigma Style	144.0	216.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	MAYSIN	Leaf				--
1	ACONITIC-ACID	Shoot		600.0		--
7	CYCLOARTENOL	Shoot				--
1	NAPHTHALENE	Silk Essent. Oil		3000.0		--
2	GERANYL-ACETONE	Seed Essent. Oil				--
1	ACONITIC-ACID	Root				--
8	INOSITOL	Plant				--
2	FRIEDELIN	Shoot				--
1	CALMODULIN	Seed				--
1	PYRROLIDINE	Seed				--