

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Zea mays

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	ETHYL-PHENYLACETATE	Silk Essent. Oil	250000.0	740000.0		--
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.
1	DECAN-1-AL	Silk Essent. Oil	10000.0	90000.0		--
15	FIBER	Silk Stigma Style		81000.0	1.0	--
2	METHYL-PHENYLACETATE	Silk Essent. Oil	30000.0	40000.0		--
8	GLUTAMIC-ACID	Seed	6360.0	26457.0	-0.6436731379916952	USDA's Ag Handbook 8 and sequelae)
1	DECAN-1-AL	Husk Essent. Oil		24000.0		--
27	LINOLEIC-ACID	Seed	5420.0	22547.0	-0.724648681207493	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.
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.
2	LEUCINE	Seed	3480.0	14477.0	-0.24929490146930922	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Seed	3470.0	14435.0	-0.8604360359565065	USDA's Ag Handbook 8 and sequelae)
2	PHENYL-ACETALDEHYDE	Husk Essent. Oil		13000.0		--
9	PHYTIC-ACID	Seed	7200.0	12900.0	-0.3647475557448543	--
3	ALANINE	Seed	2950.0	12272.0	0.44977179228929015	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Silk Stigma Style		12200.0		--
13	BETA-IONONE	Husk Essent. Oil		12000.0		--
14	POTASSIUM	Seed	2400.0	11450.0	-0.09850155432250932	--
3	ASPARTIC-ACID	Seed	2440.0	10150.0	-1.1042764584247933	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Seed	1850.0	7696.0	-0.5315006159571728	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Seed	1710.0	7114.0	-0.5528161466254179	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Silk Essent. Oil		7000.0		--
1	SERINE	Seed	1530.0	6365.0	-0.8067159497282409	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Seed	1500.0	6240.0	-0.6329654729366279	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Seed	1370.0	5699.0	-0.8668614509130552	USDA's Ag Handbook 8 and sequelae)
14	ARGININE	Seed	1310.0	5450.0	-0.8125917351666905	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.
4	THREONINE	Seed	1290.0	5366.0	-0.6199585002377315	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Seed	1270.0	5283.0	-0.8196658866632359	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Seed	1230.0	5117.0	-0.6078994158411758	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.
4	PHOSPHORUS	Seed	600.0	4066.0	-0.34019475720359266	--
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.
7	HISTIDINE	Seed	890.0	3702.0	-0.6439051932934873	USDA's Ag Handbook 8 and sequelae)
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.
1	NAPHTHALENE	Silk Essent. Oil		3000.0		--
13	BETA-PINENE	Silk Essent. Oil		3000.0		--
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.)
15	METHIONINE	Seed	670.0	2787.0	-0.39450659411183164	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	PHYTIC-ACID	Pollen Or Spore		2600.0		--
28	CALCIUM	Silk Stigma Style		2520.0		--
2	TRANS-FERULIC-ACID	Seed		1800.0	1.3913139699802963	--
65	MAGNESIUM	Silk Stigma Style		1790.0		--
65	MAGNESIUM	Seed	100.0	1600.0	-0.531836823348677	--
47	BETA-SITOSTEROL	Silk Stigma Style		1300.0		--
47	BETA-SITOSTEROL	Seed		1200.0	-0.17049741772155916	--
14	SULFUR	Fruit	6.0	1140.0	-0.19109679700613894	--
2	CYSTINE	Seed	260.0	1082.0	-1.438643753064175	USDA's Ag Handbook 8 and sequelae)
13	BETA-IONONE	Silk Essent. Oil		1000.0		--
24	BENZALDEHYDE	Silk Essent. Oil		1000.0		--
2	PHENYL-ACETALDEHYDE	Silk Essent. Oil		1000.0		--
29	TRYPTOPHAN	Seed	230.0	957.0	-0.8075994083741	--
1	SODIUM	Seed	0.0	757.0	0.48595911191753866	--
14	GAMMA-TOCOPHEROL	Oil		752.0	1.413007494257776	--
15	ALPHA-LINOLENIC-ACID	Seed	160.0	666.0	-0.3177446681679559	USDA's Ag Handbook 8 and sequelae)
1	ACONITIC-ACID	Shoot		600.0		--
6	IRON	Silk Stigma Style		504.0		--
8	STEARIC-ACID	Seed	110.0	457.0	-0.5554746921056529	USDA's Ag Handbook 8 and sequelae)
5	DAUCOSTEROL	Silk Stigma Style		440.0		--
20	CHOLINE	Seed		430.0	-1.1693297391425415	--
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.
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.)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PHOSPHORUS	Silk Stigma Style		287.0		--
5	ALUMINUM	Seed	1.0	275.0	0.09410564288080694	--
32	ALPHA-TOCOPHEROL	Oil	90.0	257.0	-0.32062252332922786	--
4	SILICON	Silk Stigma Style		237.0		--
14	BETAINE	Shoot		234.0	-0.18096389196058713	--
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.
5	ALUMINUM	Silk Stigma Style		213.0		--
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.)
28	CALCIUM	Seed	10.0	181.0	-0.7282806437807207	--
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.
1	SODIUM	Silk Stigma Style		130.0		--
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.
112	ASCORBIC-ACID	Seed	0.0	85.0	-0.28742699640223446	--
20	CHOLINE	Shoot		85.0	-0.6541437736274379	--
39	NIACIN	Seed	16.0	71.0	0.8415661421509846	--
2	COBALT	Silk Stigma Style		64.0		--
14	MANGANESE	Seed	0.84	63.0	0.11807339481595111	--
14	BETAINE	Root		59.0	-0.3636422915694051	--
25	P-COUMARIC-ACID	Seed	4.0	46.0	-0.4061463765475915	--
1	CALMODULIN	Pollen Or Spore		45.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
6	IRON	Seed	5.0	41.0	-0.5101323955139533	--
20	CHOLINE	Root		36.0	-0.4093082994350739	--
11	PANTOTHENIC-ACID	Seed	4.0	34.0	1.8074305020007495	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Silk Stigma Style		34.0	-1.0	--
28	VANILLIN	Seed	4.0	31.0		Jim Duke's personal files.
1	METHYL-AMINE	Seed		27.0	-0.00897230932189183	--
61	FERULIC-ACID	Seed	6.0	27.0	-0.39634822822137994	--
39	NIACIN	Silk Stigma Style		25.0		--
12	COPPER	Fruit	0.0	20.0	0.5588968590110831	--
77	ZINC	Seed	4.0	20.0	-0.7135039207289134	--
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.
4	BORON	Seed	0.0	15.0	-0.4322002310973592	--
24	CHROMIUM	Silk Stigma Style		13.0		--
112	ASCORBIC-ACID	Silk Stigma Style		11.0		--
31	THIAMIN	Fruit	2.0	8.0	0.3414272755878574	--
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.
3	MANNOSE	Plant	1.0	7.0		--
3	NICKEL	Seed	0.12	6.3	0.2960271506106448	--
2	MOLYBDENUM	Seed	0.084	6.3	0.4479349477443534	--
60	SELENIUM	Silk Stigma Style		5.7		--
7	SALICYLATES	Fruit	1.0	5.0	-0.3224047195908981	--
15	TRIGONELLINE	Seed		4.0	-0.46810441555051263	--
15	RIBOFLAVIN	Fruit	1.0	4.0	-0.21615825716438572	--
2	DIMETHYL-AMINE	Seed	1.1	3.5	-0.32293776451998035	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
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.
7	ALPHA-CAROTENE	Seed	0.5	2.5		--
53	BETA-CAROTENE	Seed	0.5	2.5	-0.27303542142102893	--
31	THIAMIN	Silk Stigma Style		2.1	-0.9999999999999999	--
15	FOLACIN	Fruit	1.0	2.0	-0.019192793995839758	--
4	TIN	Seed	1.0	1.8	-0.39709066551927835	--
24	CHROMIUM	Seed	0.0	1.65	-0.442125919797465	--
15	RIBOFLAVIN	Silk Stigma Style		1.5	-1.0	--
16	VANADIUM	Seed	0.05	1.35	0.6938324504308431	--
3	CADMIUM	Seed	0.0	1.0	0.16237947527784696	--
25	P-COUMARIC-ACID	Shoot		1.0	-0.7071067811865475	Jim Duke's personal files.
2	COBALT	Fruit	0.01	0.8	-0.43826781025666195	--
102	CAFFEIC-ACID	Shoot		0.7	-0.7034493867354843	--
60	SELENIUM	Seed	0.0	0.5	-0.2588230372812833	--
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.
15	FOLACIN	Seed	0.142	0.4	-0.9100137393533284	--
11	LITHIUM	Seed	0.048	0.22	-0.9999999999999998	--
2	ARSENIC	Seed	0.001	0.211	1.5951685300488623	--
1	MERCURY	Seed	0.0	0.072	-0.30034903182835404	--
4	BIOTIN	Cob	0.02	0.06		--
3	SILVER	Seed	0.012	0.055	-0.18268699040920042	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	ESTRONE	Seed Oil		0.04		--
5	PHYLLOQUINONE	Oil		0.03	-1.0603756768844963	--
2	ZEATIN	Plant		0.014		--
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.
5	PHYLLOQUINONE	Fruit		0.003	-0.2325377501021479	--
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.
53	BETA-CAROTENE	Silk Stigma Style		0.0		--
1	NAPHTHALENE	Husk Essent. Oil				--
37	CARVACROL	Seed Essent. Oil				--
6	GUANIDINE	Plant				--
2	DIETHYL-AMINE	Seed				--
24	VANILLIC-ACID	Tissue Culture				--
47	BETA-SITOSTEROL	Seed Oil				--
2	TRANS-FERULIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
10	SQUALENE	Seed Oil				--
7	INDOLE-3-ACETIC-ACID	Root				--
15	INDOLE	Shoot				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
18	GUAIACOL	Seed				--
9	DELTA-CADINENE	Leaf				--
1	ISOVALERALDEHYDE	Shoot				--
22	MYRCENE	Seed Essent. Oil				--
2	GAMMA-NONALACTONE	Silk Stigma Style				--
29	TRYPTOPHAN	Cotyledon				--
2	TRANS-BETA-FARNESENE	Leaf				--
47	BETA-SITOSTEROL	Shoot				--
7	INDOLE-3-ACETIC-ACID	Cotyledon				--
10	ALPHA-AMYRIN	Plant				--
12	ALLANTOIN	Embryo				--
1	LUTEOLINIDIN	Silk Stigma Style				--
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				--
102	CAFFEIC-ACID	Sprout Seedling				--
4	GLYCOLIC-ACID	Silk Stigma Style				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
32	ALPHA-TOCOPHEROL	Seed Oil				--
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				--
62	GALLIC-ACID	Tissue Culture				--
3	INDOLE-3-BUTYRIC-ACID	Leaf				--
4	TIN	Silk Stigma Style				--
1	QUINIC-ACID	Plant				--
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				--
4	COIXOL	Plant				--
22	ISOQUERCITRIN	Pollen Or Spore				--
7	CYCLOARTENOL	Root				--
18	VITEXIN	Silk Stigma Style				--
76	EUGENOL	Seed				--
60	LIMONENE	Seed Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	SUCCINIC-ACID	Plant				--
3	4-HYDROXYBENZALDEHYDE	Cob				--
3	MAYSIN	Silk Stigma Style				--
32	ALPHA-TOCOPHEROL	Seed				--
22	MYRCENE	Leaf				--
6	ANTHRANILIC-ACID	Leaf				--
1	GALACTOSE	Plant				--
3	INDOLE-3-BUTYRIC-ACID	Seed				--
2	QUERCETIN-3-O-BETA-D-GLUCOSIDE	Pollen Or Spore				--
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.
2	PHOSPHATIDYL-CHOLINE	Plant				--
5	24-METHYLENE-CYCLOARTANOL	Shoot				--
2	VIOLAXANTHIN	Leaf				--
60	LIMONENE	Silk Stigma Style				--
24	BENZALDEHYDE	Shoot				--
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				--
4	P-HYDROXYBENZALDEHYDE	Cob				--
2	CHELIDONIC-ACID	Shoot				--
15	METHIONINE	Pollen Or Spore				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	ANTHERAXANTHIN	Leaf				--
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.
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.
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				--
9	BETA-AMYRIN	Shoot				--
25	P-COUMARIC-ACID	Sprout Seedling				--
6	ETHYL-ACETATE	Silk Stigma Style				--
60	LIMONENE	Husk Essent. Oil				--
5	ALUMINUM	Leaf				--
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				--
2	CAMPESTEROL	Seed Oil				--
71	THYMOL	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	PYRUVIC-ACID	Sprout Seedling				--
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				--
1	LIGNOCERIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
1	CHOLESTEROL	Shoot				--
24	VANILLIC-ACID	Sprout Seedling				--
24	ETHANOL	Silk Stigma Style				--
60	LIMONENE	Leaf				--
5	STARCH	Seed				--
2	PHENYL-ACETALDEHYDE	Plant				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	MAYSIN	Leaf				--
1	CALMODULIN	Seed				--
1	PYRROLIDINE	Seed				--
7	CYCLOARTENOL	Shoot				--
2	GERANYL-ACETONE	Seed Essent. Oil				--
1	ACONITIC-ACID	Root				--
8	INOSITOL	Plant				--
2	FRIEDELIN	Shoot				--
1	CINNAMIC-ACID-ETHYL-ESTER	Silk Stigma Style				--
2	PHENYL-ACETALDEHYDE	Seed Essent. Oil				--
1	CHOLESTEROL	Root				--
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.
31	CARYOPHYLLENE	Husk Essent. Oil				--
10	SQUALENE	Seed				--
1	MALONIC-ACID	Plant				--
12	STIGMASTEROL	Seed Oil				--
14	SUCROSE	Leaf				--
7	RICINOLEIC-ACID	Plant				--
37	CARVACROL	Seed				--
13	LIGNIN	Cob				--
176	QUERCETIN	Pollen Or Spore				--
5	CYANIN	Cob				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	GERANYL-ACETONE	Husk Essent. Oil				--
1	5-O-CAFFEYOYLQUINIC-ACID	Plant				--
31	CARYOPHYLLENE	Leaf				--
1	LEUCOPELARGONIDIN	Plant				--
7	ASTRAGALIN	Pollen Or Spore				--
77	CHLOROGENIC-ACID	Silk Stigma Style				--
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				--
15	MALIC-ACID	Plant				--
2	GERANYL-ACETONE	Seed				--
8	STEARIC-ACID	Silk Stigma Style				--
12	STIGMASTEROL	Shoot				--
2	RIBONUCLEASE	Tissue Culture				--
4	ORIENTIN	Silk Stigma Style				--
13	BETA-IONONE	Silk Stigma Style				--
23	ALPHA-TERPINEOL	Silk Stigma Style				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
43	PROTOCATECHUIC-ACID	Tissue Culture				--
7	CYANIDIN	Silk Stigma Style				--
13	GERANIAL	Husk Essent. Oil				--
4	4-VINYL-GUAIACOL	Seed				--
1	LEUCOCYANIDIN	Plant				--
1	CYCLOSADOL	Seed Oil				--
1	NAPHTHALENE	Seed Essent. Oil				--
77	CHLOROGENIC-ACID	Leaf				--
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				--
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				--
35	GERANIOL	Silk Stigma Style				--
13	PALMITIC-ACID	Silk Stigma Style				--
12	STIGMASTEROL	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
6	SYRINGIC-ACID	Tissue Culture				--
2	CRYPTOXANTHIN	Plant				--
6	FURFURAL	Shoot				--
1	3-O-CAFFEYOYLQUINIC-ACID	Plant				--
5	ZEAXANTHIN	Plant				--
2	CAMPESTEROL	Shoot				--
1	NAPHTHALENE	Silk Stigma Style				--
2	CHELIDONIC-ACID	Root				--
28	VANILLIN	Shoot				--
13	GERANIAL	Hull Husk				--
64	OLEANOLIC-ACID	Silk Stigma Style				--
10	SQUALENE	Pollen Or Spore				--
1	NICOTIANAMINE	Leaf				--
7	INDOLE-3-ACETIC-ACID	Juice				--
53	LINALOOL	Plant				Stitt, Paul. Why George should eat broccoli.
10	CROCETIN	Leaf				--
13	BETA-IONONE	Plant				--
2	TRANS-BETA-FARNESENE	Root				--
67	1,8-CINEOLE	Silk Stigma Style				--
1	LANOSTEROL	Plant				--
61	FERULIC-ACID	Sprout Seedling				--
24	BENZALDEHYDE	Husk Essent. Oil				--
4	SYRINGALDEHYDE	Seed				--