

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Zea mays

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Seed	4.0	20.0	-0.7135039207289134	--
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.
5	ZEAXANTHIN	Plant				--
2	ZEATIN	Plant		0.014		--
4	ZEARALENONE	Plant				--
3	XYLOSE	Plant				--
43	XANTHOTOXIN	Root				--
18	VITEXIN	Silk Stigma Style				--
2	VIOLAXANTHIN	Leaf				--
28	VANILLIN	Cob				--
28	VANILLIN	Shoot				--
28	VANILLIN	Seed	4.0	31.0		Jim Duke's personal files.
24	VANILLIC-ACID	Sprout Seedling				--
24	VANILLIC-ACID	Tissue Culture				--
16	VANADIUM	Seed	0.05	1.35	0.6938324504308431	--
3	VALINE	Seed	1850.0	7696.0	-0.5315006159571728	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Seed	1230.0	5117.0	-0.6078994158411758	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Seed	230.0	957.0	-0.8075994083741	--
29	TRYPTOPHAN	Cotyledon				--
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.
15	TRIGONELLINE	Seed		4.0	-0.46810441555051263	--
2	TRANS-FERULIC-ACID	Seed		1800.0	1.3913139699802963	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	TRANS-FERULIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
2	TRANS-BETA-FARNESENE	Root				--
2	TRANS-BETA-FARNESENE	Leaf				--
4	TIN	Silk Stigma Style				--
4	TIN	Seed	1.0	1.8	-0.39709066551927835	--
71	THYMOL	Seed Essent. Oil				--
71	THYMOL	Seed				--
71	THYMOL	Silk Stigma Style				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
4	THREONINE	Seed	1290.0	5366.0	-0.6199585002377315	USDA's Ag Handbook 8 and sequelae)
31	THIAMIN	Silk Stigma Style		2.1	-0.9999999999999999	--
31	THIAMIN	Fruit	2.0	8.0	0.3414272755878574	--
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.
6	SYRINGIC-ACID	Tissue Culture				--
4	SYRINGALDEHYDE	Cob				--
4	SYRINGALDEHYDE	Seed				--
14	SULFUR	Fruit	6.0	1140.0	-0.19109679700613894	--
14	SUCROSE	Leaf				--
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.
7	SUCCINIC-ACID	Plant				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	STIGMASTEROL	Silk Stigma Style				--
12	STIGMASTEROL	Shoot				--
12	STIGMASTEROL	Seed Oil				--
12	STIGMASTEROL	Root				--
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.)
8	STEARIC-ACID	Silk Stigma Style				--
8	STEARIC-ACID	Seed	110.0	457.0	-0.5554746921056529	USDA's Ag Handbook 8 and sequelae)
5	STARCH	Seed				--
10	SQUALENE	Seed				--
10	SQUALENE	Pollen Or Spore				--
10	SQUALENE	Seed Oil				--
1	SPERMINE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	SPERMIDINE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	SODIUM	Silk Stigma Style		130.0		--
1	SODIUM	Seed	0.0	757.0	0.48595911191753866	--
3	SILVER	Seed	0.012	0.055	-0.18268699040920042	--
4	SILICON	Silk Stigma Style		237.0		--
1	SERINE	Seed	1530.0	6365.0	-0.8067159497282409	USDA's Ag Handbook 8 and sequelae)
60	SELENIUM	Silk Stigma Style		5.7		--
60	SELENIUM	Seed	0.0	0.5	-0.2588230372812833	--
7	SALICYLATES	Fruit	1.0	5.0	-0.3224047195908981	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SABINOL	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
7	RICINOLEIC-ACID	Plant				--
2	RIBONUCLEASE	Tissue Culture				--
15	RIBOFLAVIN	Silk Stigma Style		1.5	-1.0	--
15	RIBOFLAVIN	Fruit	1.0	4.0	-0.21615825716438572	--
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.
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	QUINIC-ACID	Plant				--
2	QUERCETIN-3-O-BETA-D-GLUCOSIDE	Pollen Or Spore				--
176	QUERCETIN	Pollen Or Spore				--
176	QUERCETIN	Plant				--
1	PYRUVIC-ACID	Sprout Seedling				--
1	PYRROLIDINE	Seed				--
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.
43	PROTocatechuic-acid	Tissue Culture				--
14	POTASSIUM	Silk Stigma Style		12200.0		--
14	POTASSIUM	Seed	2400.0	11450.0	-0.09850155432250932	--
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.)
2	PHYTOHAEMAGGLUTININ	Silk Stigma Style				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	PHYTIC-ACID	Seed	7200.0	12900.0	-0.3647475557448543	--
9	PHYTIC-ACID	Pollen Or Spore		2600.0		--
5	PHYLLOQUINONE	Oil		0.03	-1.0603756768844963	--
5	PHYLLOQUINONE	Fruit		0.003	-0.2325377501021479	--
4	PHOSPHORUS	Silk Stigma Style		287.0		--
4	PHOSPHORUS	Seed	600.0	4066.0	-0.34019475720359266	--
2	PHOSPHATIDYL-CHOLINE	Plant				--
7	PHENYLALANINE	Seed	1500.0	6240.0	-0.6329654729366279	USDA's Ag Handbook 8 and sequelae)
2	PHENYLACETIC-ACID	Pollen Or Spore				--
2	PHENYL-ACETALDEHYDE	Plant				--
2	PHENYL-ACETALDEHYDE	Silk Essent. Oil		1000.0		--
2	PHENYL-ACETALDEHYDE	Seed Essent. Oil				--
2	PHENYL-ACETALDEHYDE	Husk Essent. Oil		13000.0		--
6	PHENETHYL-ALCOHOL	Silk Stigma Style				--
7	PELARGONIDIN	Silk Stigma Style				--
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	PANTOTHENIC-ACID	Seed	4.0	34.0	1.8074305020007495	USDA's Ag Handbook 8 and sequelae)
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.
2	PALMITOLEIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	PALMITIC-ACID	Silk Stigma Style				--
13	PALMITIC-ACID	Seed	1710.0	7114.0	-0.5528161466254179	USDA's Ag Handbook 8 and sequelae)
4	P-HYDROXYBENZALDEHYDE	Cob				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
25	P-COUMARIC-ACID	Seed	4.0	46.0	-0.4061463765475915	--
25	P-COUMARIC-ACID	Shoot		1.0	-0.7071067811865475	Jim Duke's personal files.
25	P-COUMARIC-ACID	Sprout Seedling				--
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.
4	ORIENTIN	Silk Stigma Style				--
18	OLEIC-ACID	Seed	3470.0	14435.0	-0.8604360359565065	USDA's Ag Handbook 8 and sequelae)
64	OLEANOLIC-ACID	Silk Stigma Style				--
1	NICOTIANAMINE	Leaf				--
3	NICKEL	Seed	0.12	6.3	0.2960271506106448	--
39	NIACIN	Silk Stigma Style		25.0		--
39	NIACIN	Seed	16.0	71.0	0.8415661421509846	--
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.
11	NEROLIDOL	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	NEOXANTHIN	Leaf				--
1	NAPHTHALENE	Seed Essent. Oil				--
1	NAPHTHALENE	Silk Stigma Style				--
1	NAPHTHALENE	Husk Essent. Oil				--
1	NAPHTHALENE	Silk Essent. Oil		3000.0		--
6	MYRISTIC-ACID	Seed				--
22	MYRCENE	Seed				--
22	MYRCENE	Seed Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	MYRCENE	Husk Essent. Oil				--
22	MYRCENE	Leaf				--
2	MOLYBDENUM	Seed	0.084	6.3	0.4479349477443534	--
2	METHYL-PHENYLACETATE	Silk Essent. Oil	30000.0	40000.0		--
1	METHYL-AMINE	Seed		27.0	-0.00897230932189183	--
15	METHIONINE	Seed	670.0	2787.0	-0.39450659411183164	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Pollen Or Spore				--
1	MERCURY	Seed	0.0	0.072	-0.30034903182835404	--
63	MENTHOL	Silk Stigma Style				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
63	MENTHOL	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
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.
3	MAYSIN	Leaf				--
3	MAYSIN	Silk Stigma Style				--
3	MANNOSE	Plant	1.0	7.0		--
14	MANGANESE	Seed	0.84	63.0	0.11807339481595111	--
14	MANGANESE	Silk Stigma Style		34.0	-1.0	--
1	MALONIC-ACID	Plant				--
15	MALIC-ACID	Plant				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
65	MAGNESIUM	Silk Stigma Style		1790.0		--
65	MAGNESIUM	Seed	100.0	1600.0	-0.531836823348677	--
4	LYSINE	Seed	1370.0	5699.0	-0.8668614509130552	USDA's Ag Handbook 8 and sequelae)
1	LUTEOLINIDIN	Silk Stigma Style				--
15	LUTEIN	Leaf				--
11	LITHIUM	Seed	0.048	0.22	-0.999999999999998	--
27	LINOLEIC-ACID	Seed	5420.0	22547.0	-0.724648681207493	USDA's Ag Handbook 8 and sequelae)
53	LINALOOL	Plant				Stitt, Paul. Why George should eat broccoli.
53	LINALOOL	Leaf				--
60	LIMONENE	Silk Essent. Oil		7000.0		--
60	LIMONENE	Husk Essent. Oil				--
60	LIMONENE	Leaf				--
60	LIMONENE	Seed Essent. Oil				--
60	LIMONENE	Silk Stigma Style				--
1	LIGNOCERIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
13	LIGNIN	Cob				--
1	LEUCOPELARGONIDIN	Plant				--
1	LEUCOCYANIDIN	Plant				--
2	LEUCINE	Seed	3480.0	14477.0	-0.24929490146930922	USDA's Ag Handbook 8 and sequelae)
1	LANOSTEROL	Plant				--
8	LACTIC-ACID	Plant				--
1	ISOVALERALDEHYDE	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	ISOQUERCITRIN	Plant				Stitt, Paul. Why George should eat broccoli.
22	ISOQUERCITRIN	Pollen Or Spore				--
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.
6	IRON	Silk Stigma Style		504.0		--
6	IRON	Seed	5.0	41.0	-0.5101323955139533	--
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.
8	INOSITOL	Plant				--
3	INDOLE-3-BUTYRIC-ACID	Leaf				--
3	INDOLE-3-BUTYRIC-ACID	Seed				--
7	INDOLE-3-ACETIC-ACID	Seed				--
7	INDOLE-3-ACETIC-ACID	Juice				--
7	INDOLE-3-ACETIC-ACID	Root				--
7	INDOLE-3-ACETIC-ACID	Cotyledon				--
15	INDOLE	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
15	INDOLE	Shoot				--
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.
7	HISTIDINE	Seed	890.0	3702.0	-0.6439051932934873	USDA's Ag Handbook 8 and sequelae)
7	HISTIDINE	Embryo				--
6	GUANIDINE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	GUAIACOL	Seed				--
4	GLYCOLIC-ACID	Silk Stigma Style				--
12	GLYCINE	Seed	1270.0	5283.0	-0.8196658866632359	USDA's Ag Handbook 8 and sequelae)
8	GLYCEROL	Plant				--
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.
7	GLUTATHIONE	Root				--
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.
7	GLUTATHIONE	Fruit				--
8	GLUTAMIC-ACID	Seed	6360.0	26457.0	-0.6436731379916952	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.
7	GLUCOSE	Sprout Seedling				--
2	GERANYL-ACETONE	Seed				--
2	GERANYL-ACETONE	Seed Essent. Oil				--
2	GERANYL-ACETONE	Husk Essent. Oil				--
35	GERANIOL	Silk Stigma Style				--
13	GERANIAL	Hull Husk				--
13	GERANIAL	Husk Essent. Oil				--
14	GAMMA-TOCOPHEROL	Oil		752.0	1.413007494257776	--
2	GAMMA-NONALACTONE	Silk Stigma Style				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
62	GALLIC-ACID	Tissue Culture				--
1	GALACTOSE	Plant				--
6	FURFURAL	Shoot				--
6	FURFURAL	Plant				--
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.
2	FRIEDELIN	Shoot				--
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	--
15	FOLACIN	Fruit	1.0	2.0	-0.019192793995839758	--
15	FIBER	Silk Stigma Style		81000.0	1.0	--
61	FERULIC-ACID	Sprout Seedling				--
61	FERULIC-ACID	Seed	6.0	27.0	-0.39634822822137994	--
61	FERULIC-ACID	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
76	EUGENOL	Seed				--
1	ETHYL-PHENYLACETATE	Silk Essent. Oil	250000.0	740000.0		--
6	ETHYL-ACETATE	Shoot				--
6	ETHYL-ACETATE	Silk Stigma Style				--
24	ETHANOL	Silk Stigma Style				--
8	ESTRONE	Seed Oil		0.04		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	ERGOSTEROL	Silk Stigma Style				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
5	ERGOSTEROL	Root				--
2	DIMETHYL-AMINE	Seed	1.1	3.5	-0.32293776451998035	--
2	DIETHYL-AMINE	Seed				--
9	DELTA-CADINENE	Leaf				--
1	DECAN-1-AL	Silk Essent. Oil	10000.0	90000.0		--
1	DECAN-1-AL	Husk Essent. Oil		24000.0		--
5	DAUCOSTEROL	Silk Stigma Style		440.0		--
2	CYSTINE	Seed	260.0	1082.0	-1.438643753064175	USDA's Ag Handbook 8 and sequelae)
1	CYCLOSADOL	Seed Oil				--
1	CYCLOSADOL	Seed				--
3	CYCLOEUCALENOL	Shoot				--
7	CYCLOARTENOL	Shoot				--
7	CYCLOARTENOL	Root				--
5	CYANIN	Cob				--
7	CYANIDIN	Leaf				--
7	CYANIDIN	Silk Stigma Style				--
2	CRYPTOXANTHIN	Plant				--
10	CROCETIN	Leaf				--
57	COUMARIN	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
12	COPPER	Fruit	0.0	20.0	0.5588968590110831	--
4	COIXOL	Plant				--
2	COBALT	Silk Stigma Style		64.0		--
2	COBALT	Fruit	0.01	0.8	-0.43826781025666195	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	CITRONELLOL	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
1	CINNAMIC-ACID-ETHYL-ESTER	Silk Stigma Style				--
24	CHROMIUM	Silk Stigma Style		13.0		--
24	CHROMIUM	Seed	0.0	1.65	-0.442125919797465	--
20	CHOLINE	Shoot		85.0	-0.6541437736274379	--
20	CHOLINE	Seed		430.0	-1.1693297391425415	--
20	CHOLINE	Root		36.0	-0.4093082994350739	--
1	CHOLESTEROL	Shoot				--
1	CHOLESTEROL	Root				--
1	CHOLESTEROL	Seed				--
77	CHLOROGENIC-ACID	Silk Stigma Style				--
77	CHLOROGENIC-ACID	Leaf				--
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	CHELIDONIC-ACID	Root				--
2	CHELIDONIC-ACID	Shoot				--
1	CELLULOSE	Plant				--
31	CARYOPHYLLENE	Husk Essent. Oil				--
31	CARYOPHYLLENE	Leaf				--
37	CARVACROL	Seed Essent. Oil				--
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.
37	CARVACROL	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.)
2	CAMPESTEROL	Seed Oil				--
2	CAMPESTEROL	Shoot				--
1	CALMODULIN	Seed				--
1	CALMODULIN	Pollen Or Spore		45.0		--
28	CALCIUM	Silk Stigma Style		2520.0		--
28	CALCIUM	Seed	10.0	181.0	-0.7282806437807207	--
102	CAFFEIC-ACID	Shoot		0.7	-0.7034493867354843	--
102	CAFFEIC-ACID	Sprout Seedling				--
3	CADMIUM	Seed	0.0	1.0	0.16237947527784696	--
2	CADAVERINE	Plant				--
4	BORON	Seed	0.0	15.0	-0.4322002310973592	--
4	BIOTIN	Cob	0.02	0.06		--
14	BETAINE	Root		59.0	-0.3636422915694051	--
14	BETAINE	Silk Stigma Style				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
14	BETAINE	Shoot		234.0	-0.18096389196058713	--
47	BETA-SITOSTEROL	Silk Stigma Style		1300.0		--
47	BETA-SITOSTEROL	Shoot				--
47	BETA-SITOSTEROL	Seed Oil				--
47	BETA-SITOSTEROL	Seed		1200.0	-0.17049741772155916	--
13	BETA-PINENE	Silk Essent. Oil		3000.0		--
13	BETA-IONONE	Plant				--
13	BETA-IONONE	Silk Stigma Style				--

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.
13	BETA-IONONE	Husk Essent. Oil		12000.0		--
13	BETA-IONONE	Silk Essent. Oil		1000.0		--
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.
53	BETA-CAROTENE	Silk Stigma Style		0.0		--
53	BETA-CAROTENE	Seed	0.5	2.5	-0.27303542142102893	--
9	BETA-AMYRIN	Shoot				--
1	BENZYL-FORMATE	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
24	BENZALDEHYDE	Husk Essent. Oil				--
24	BENZALDEHYDE	Shoot				--
24	BENZALDEHYDE	Silk Essent. Oil		1000.0		--
7	ASTRAGALIN	Pollen Or Spore				--
3	ASPARTIC-ACID	Seed	2440.0	10150.0	-1.1042764584247933	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Silk Stigma Style		11.0		--
112	ASCORBIC-ACID	Seed	0.0	85.0	-0.28742699640223446	--
2	ARSENIC	Seed	0.001	0.211	1.5951685300488623	--
14	ARGININE	Seed	1310.0	5450.0	-0.8125917351666905	USDA's Ag Handbook 8 and sequelae)
6	ANTHRANILIC-ACID	Leaf				--
1	ANTHERAXANTHIN	Leaf				--
5	ALUMINUM	Silk Stigma Style		213.0		--
5	ALUMINUM	Seed	1.0	275.0	0.09410564288080694	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	ALUMINUM	Leaf				--
32	ALPHA-TOCOPHEROL	Seed Oil				--
32	ALPHA-TOCOPHEROL	Seed				--
32	ALPHA-TOCOPHEROL	Fruit				--
32	ALPHA-TOCOPHEROL	Oil	90.0	257.0	-0.32062252332922786	--
23	ALPHA-TERPINEOL	Silk Stigma Style				--
28	ALPHA-PINENE	Husk Essent. Oil				--
15	ALPHA-LINOLENIC-ACID	Seed	160.0	666.0	-0.3177446681679559	USDA's Ag Handbook 8 and sequelae)
7	ALPHA-CAROTENE	Seed	0.5	2.5		--
10	ALPHA-AMYRIN	Plant				--
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.
12	ALLANTOIN	Embryo				--
3	ALANINE	Seed	2950.0	12272.0	0.44977179228929015	USDA's Ag Handbook 8 and sequelae)
28	ADENOSINE	Leaf				--
28	ADENOSINE	Seed				--
11	ADENINE	Seed				--
1	ACONITIC-ACID	Shoot		600.0		--
1	ACONITIC-ACID	Root				--
1	5-O-CAFFEYLQUINIC-ACID	Plant				--
4	4-VINYL-GUAIACOL	Seed				--
3	4-HYDROXYBENZALDEHYDE	Cob				--
1	3-O-CAFFEYLQUINIC-ACID	Plant				--
5	24-METHYLENE-CYCLOARTANOL	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
67	1,8-CINEOLE	Silk Stigma Style				--