

# P Zea mays

## Common Name(s)

Corn

## How Used

F

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(-)-TRANS-ISO-MENTH-5-EN-2-OL	Plant	--	--	
0	1,1-DIPHENYL-ETHANE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	1,2,3-TRIMETHYL-BENZENE	Silk Stigma	--	--	
0	1,2,4-TRIMETHYL-BENZENE	Style	--	--	
0	1,2-DIMETHOXY-BENZENE	Hull Husk	--	--	
0	1,2-DIMETHOXY-BENZENE	Husk	--	--	
0	1,2-DIMETHOXY-BENZENE	Essent. Oil	--	--	
0	1,2-DIMETHYL-4-ETHYL-BENZENE	Silk Stigma	--	--	
		Style			

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	1,3-AMINO-PROPYL-PYRROLINIUM	Sprout Seedling	--	--	
0	1,3-DIMETHYL-4-ETHYL-BENZENE	Silk Stigma Style	--	--	
0	1,8-CINEOL	Silk Stigma Style	--	--	
67	1,8-CINEOLE	Silk Stigma Style	--	--	
0	1-(3-METHYL-2-FURYL)PROPANE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	1-ACETO-METHYL-NAPHTHONE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	1-ACETO-NAPHTHONE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	1-O-FERULOYL-BETA-D-GLUCOSE	Leaf	--	--	
0	1-O-SINAPOYL-BETA-D-GLUCOSE	Leaf	--	--	
0	1-P-HYDROXY-TRANS-CINNAMOYL)-GLYCEROL	Seed	45	45	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	1.2	Seed	--	--	
0	10-OXO-OCTADEC-TRANS-11-EN-13-OLIDE	Seed	--	0.3	
0	2''-O-ALPHA-L-RHAMNOSYL-6-C-FUCOSYL-3'-METHOXY-LUTEOLIN	Silk Stigma Style	--	50	
0	2''-O-ALPHA-L-RHAMNOSYL-6-C-FUCOSYL-LUTEOLIN	Silk Stigma Style	--	50	
0	2''-O-ALPHA-L-RHAMNOSYL-6-C-QUINOVOSYL-LUTEOLIN	Silk Stigma Style	--	67	
0	2'-O-ALPHA-RHAMNOSYL-6C-(6-DEOXO-XYLO-HEXOS-4-ULOSYL)-APIGENIN	Plant	--	--	
0	2'-O-ALPHA-RHAMNOSYL-6C-(6-DEOXO-XYLO-HEXOS-4-ULOSYL)-APIGENIN	Silk Stigma Style	--	--	
0	2'-O-ALPHA-RHAMNOSYL-6C-(6-DEOXO-XYLO-HEXOS-4-ULOSYL)-CHRYSOERIOL	Plant	--	--	
0	2'-O-ALPHA-RHAMNOSYL-6C-(6-DEOXO-XYLO-HEXOS-4-ULOSYL)-CHRYSOERIOL	Silk Stigma Style	--	--	
0	2(3)-BENZOXAZOLINONE	Sprout Seedling	--	--	
0	2(H)-1-4-BENZOXAZIN-3(4H)-ONE	Sprout Seedling	--	--	
0	2,3-DIHYDRO-2-PYRAN-2-CARBOXALDEHYDE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	2,4-DIHYDROXY-6,7-DIMETHOXY-2H,1,4-BENZOXAZIN-3-ONE	Sprout Seedling	--	--	
0	2,4-METHYLENE-CHOLESTEROL	Pollen Or Spore	--	--	
0	2-(2,4-DIHYDROXY-1,4(2H)-BENZOXAZIN-3(4H)-ON-BETA-D-GLUCOSIDE	Sprout Seedling	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	2-(2,4-DIHYDROXY-7-METHOXY-1,4(2H)-BENZOXAZIN-3(4H)	Plant	--	--	
0	2-(2,4-DIHYDROXY-7-METHOXY-1,4(2H)-BENZOXAZIN-3(4H9	Plant	--	--	
0	2-(2,4-DIHYDROXY-7-METHOXY-1,4-BENZOXAZIN-3-ONE-BETA-D-GLUCOPYRANOSIDE	Sprout Seedling	--	--	
0	2-(2-4-DIHYDROXY-7-METHOXY-1-4(2H)-BENZOXAZIN-3(4H9-ON)-BETA-D-GLUCOSIDIHYDROXY-7-METHOXY	Sprout Seedling	--	--	
0	2-(2-HYDROXY-1,4(2H)-BENZOXAZIN-3(4H)-ON-BETA-D-GLUCOSIDE	Sprout Seedling	--	--	
0	2-(2-HYDROXY-7-METHOXY-1,4(2H)-BENZOXAZIN-3(4H)-ON-BETA-D-GLUCOSIDE	Sprout Seedling	--	--	
0	2-(2-HYDROXY-7-METHOXY-1,4-BENZOXAZIN-3-ONE-BETA-D-GLUCOPYRANOSIDE	Root	--	--	
0	2-(5-CHLORO-2-HYDROXY-7-METHOXY-(2H)-1,4-BENZOXAZIN-3-(4H)-ONE-BETA-D-GLUCOPYRANOSIDE	Root	--	--	
0	2-(5-CHLORO-2-HYDROXY-7-METHOXY-1,4(2H)-BENZOXAZIN-3(4H0)-ONE-BETA-D-GLUCOPYRANOSIDE	Root	--	--	
0	2-ACETO-NAPHTHONE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	2-CARBOXYARABINITOL	Leaf	--	12	-0.852521567452154 Moore, B. D., Isidoro, E., Seemann, J. R. 1993. Distribution of 2-Carboxyarabinitol Among Plants. Phytochemistry 34 3: 703-707. Dept. Biochem. Univ. Nevada Reno 89557, USA.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	2-ETHYL-1-CYCLOHEXEN-1-YL	Essential Oil	--	80000	
0	2-ETHYL-HEX-AN-1-OL	Plant	--	--	
0	2-ETHYL-HEX-AN-1-OL	Silk Stigma Style	--	--	
0	2-ETHYL-HEX-AN-1-OL	Husk Essent. Oil	10000	10000	
0	2-ETHYL-HEX-AN-1-OL	Seed Essent. Oil	--	--	
0	2-METHYL-BUTAN-1-AL	Silk Stigma Style	--	--	
0	2-METHYL-BUTAN-1-OL	Silk Stigma Style	--	--	
0	2-METHYL-NAPHTHALENE	Silk Essent. Oil	--	--	
0	2-METHYL-NAPHTHALENE	Husk Essent. Oil	--	--	
0	2-METHYL-NAPHTHALENE	Silk Stigma Style	--	--	
0	2-METHYL-NAPHTHALENE	Seed Essent. Oil	--	--	
0	2-METHYL-PENT-2-EN-1-AL	Silk Stigma Style	--	--	
0	2-METHYL-PENT-2-EN-1-AL	Leaf	--	--	
0	2-METHYL-PENTAN-3-ONE	Silk Stigma Style	--	--	
0	2-METHYL-PROPAN-1-OL	Silk Stigma Style	--	--	
0	2-O-CAFFELOYLHYDROXY-CITRIC-ACID	Shoot	--	--	
0	2-O-FERULOYL-HYDROXY-CITRIC-ACID	Shoot	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	2-O-P-COUMAROYL-HYDROXY-CITRIC-ACID	Shoot	--	--	
0	2-PENTYL-FURAN	Silk Essent. Oil	3000	3000	
0	2-PENTYL-FURAN	Essential Oil	--	10000	
0	2-PENTYL-FURAN	Plant	--	--	
0	2-PENTYL-FURAN	Husk Essent. Oil	29000	29000	
0	2-PENTYL-FURAN	Silk Stigma Style	--	--	
0	2-PENTYL-FURAN	Seed Essent. Oil	10000	10000	
0	2-PHENYLALDEHYDE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	2-THIOPHENE-ACETALDEHYDE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	24-ETHYL-CHOLESTEROL	Root	--	--	
0	24-ETHYLIDENE-LOPHENOL	Shoot	--	--	
0	24-METHYL-23-DEHYDRO-CHOLESTEROL	Seed Oil	--	--	
0	24-METHYL-CHOLESTEROL	Root	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
5	24-METHYLENE-CYCLOARTANOL	Shoot	--	--	
0	24-METHYLENE-CYCLOARTENOL	Plant	--	--	Stitt, Paul. Why George should eat broccoli.
0	24-METHYLENE-LOPHENOL	Shoot	--	--	
0	28-NORCASTASTERONE	Seed	--	--	
0	3'-METHOXYMAYSIN	Silk Stigma Style	--	--	
0	3'-NUCLEOTIDASE	Tissue Culture	--	--	
0	3'-O-METHYL-MAYSIN	Silk Stigma Style	--	--	
0	3,7-DIHYDROXY-INDOLIN-2-ONE-3-ACETIC-ACID-7'-O-BETA-D-GLUCOSIDE	Plant	--	--	
0	3-7-DIHYDROXY-INDOLIN-2-ONE-3-ACETIC ACID 7'-O-BETA-GLUCOSIDE	Seed	1.2	1.2	
0	3-FERULOYLQUINIC-ACID	Leaf	--	--	
0	3-METHYL-BUTAN-1-OL	Silk Stigma Style	--	--	
0	3-METHYL-INDOLE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
1	3-O-CAFFELOYLQUINIC-ACID	Plant	--	--	
0	3-O-COUMARYLQUINIC-ACID	Plant	--	--	
0	4-ACETYL-BENZOXAZOLIN-2-ONE	Fruit	27	27	
0	4-ETHYL-GUAIACOL	Seed	--	--	
0	4-ETHYLPHENOL	Seed	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	4-HYDROXY-BENZOIC-ACID	Tissue Culture	--	--	
3	4-HYDROXYBENZALDEHYDE	Cob	--	--	
0	4-METHYL-GUAIACOL	Seed	--	--	
0	4-VINYL-4-DEETHYL-CHLOROPHYLL-A	Plant	--	--	
4	4-VINYL-GUAIACOL	Seed	--	--	
0	4-VINYL-PHENOL	Seed	--	--	
0	5,6-DIHYDRO-2-PYRAN-2-CARBOXALDEHYDE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	5-DEHYDRO-AVENASTEROL	Seed	--	--	
0	5-DEHYDRO-AVENASTEROL	Seed Oil	--	--	
0	5-HYDROXY-TRANS-FERULIC-ACID	Plant	--	--	
1	5-O-CAFFELOYLQUINIC-ACID	Plant	--	--	
0	5-O-COUMARYLQUINIC-ACID	Plant	--	--	
0	5-O-FERULOYLQUINIC-ACID	Plant	--	--	
0	6,10,14-TRIMETHYL-PENTADECAN-2-ONE	Shoot	--	--	
0	6,7-DIMETHOXY-2-BENZOXAZOLIN-2-ONE	Plant	--	--	
0	6,7-DIMETHOXY-BENZOXAZOLIN-2-ONE	Plant	--	--	
0	6-DEOXCASTERONE	Seed	--	--	
0	6-METHOXY-2-(3)-BENZOXAZOLINONE	Shoot	--	--	
0	6-METHOXY-BENZOXAZOLIN-2-ONE	Plant	--	--	



Chemical Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0 6-METHOXY-BENZOXAZOLIN-2-ONE	Sprout Seedling	--	--	
0 6-METHOXY-BENZOXAZOLIN-2-ONE	Shoot	--	--	
0 7-DEHYDRO-AVENASTEROL	Seed	--	--	
0 7-DEHYDRO-AVENASTEROL	Seed Oil	--	--	
0 8-HYDROXY-QUINOL-2-ONE-4-CARBOXYLIC-ACID-8'-O-BETA-D-GLUCOSIDE	Plant	--	--	
0 8-HYDROXY-QUINOL-2-ONE-4-CARBOXYLIC-ACID-8'-O-BETA-D-GLUCOSIDE	Seed	--	--	
0 ABSCISIC-ACID	Flower	--	--	
0 ABSCISSIN-II	Seed	--	--	
0 ACETOIN	Plant	--	--	
1 ACONITIC-ACID	Root	--	--	
1 ACONITIC-ACID	Shoot	600	600	
11 ADENINE	Seed	--	--	
28 ADENOSINE	Seed	--	--	
28 ADENOSINE	Leaf	--	--	
0 AFLATOXIN	Plant	--	--	
0 AFLATOXIN B-1	Plant	--	--	
3 ALANINE	Seed	2950	12272	0.44977179228929015 USDA's Ag Handbook 8 and sequelae)
0 ALDOBIOURONIC-ACID	Plant	--	--	
0 ALKALOIDS	Silk Stigma Style	--	500	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
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	--	--		
0	ALPHA-AMYLASE	Plant	--	--		
10	ALPHA-AMYRIN	Plant	--	--		
7	ALPHA-CAROTENE	Seed	0.5	2.5		
0	ALPHA-COPAENE	Leaf	--	--		
0	ALPHA-GLUCOSIDASE	Plant	--	--		
15	ALPHA-LINOLENIC-ACID	Seed	160	666	-0.3177446681679559	USDA's Ag Handbook 8 and sequelae)
0	ALPHA-MUUROLENE	Plant	--	--		
0	ALPHA-MUUROLENE	Leaf	--	--		
28	ALPHA-PINENE	Husk Essent. Oil	--	--		
0	ALPHA-SITOSTEROL	Plant	--	--		
23	ALPHA-TERPINEOL	Silk Stigma Style	--	--		
32	ALPHA-TOCOPHEROL	Oil	90	257	-0.32062252332922786	
32	ALPHA-TOCOPHEROL	Fruit	--	--		
32	ALPHA-TOCOPHEROL	Seed	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
32	ALPHA-TOCOPHEROL	Seed Oil	--	--	
0	ALPHA-YLANGENE	Essential Oil	--	17000	
0	ALPHA-YLANGENE	Leaf	--	--	
0	ALPHA-YLANGENE	Husk Essent. Oil	--	--	
0	ALPHA-YLANGENE	Seed Essent. Oil	17000	17000	
0	ALPHA-ZEACAROTENE	Plant	--	--	
0	ALPHA-ZEIN	Seed	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
5	ALUMINUM	Seed	1	275	0.09410564288080694
5	ALUMINUM	Silk Stigma Style	213	213	
5	ALUMINUM	Leaf	--	--	
0	AMINO-ACIDS	Fruit	--	--	
0	AMINO-ADIPIC-ACID	Plant	--	--	
0	AMMONIA	Seed	1030	10030	1.1562118467881217
0	AMMONIA(NH3)	Seed	--	1030	-1.0102264913910184
0	ANILINE	Seed	--	--	
1	ANTHERAXANTHIN	Leaf	--	--	
6	ANTHRANILIC-ACID	Leaf	--	--	
0	ANTHRANILIC-ACID-BETA-D-GLUCOSIDE	Leaf	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	APIFOROL	Silk Stigma	--	--		
0	APIGENIDIN	Silk Stigma	--	--		
0	APIGENIN-GLYCOSIDE	Plant	--	--		
0	APS-SULFOTRANSFERASE	Leaf	--	--		
0	ARABINOSE	Plant	--	--		
0	ARACHIDIC-ACID	Plant	--	--		
14	ARGININE	Seed	1310	5450	-0.8125917351666905	USDA's Ag Handbook 8 and sequelae)
2	ARSENIC	Seed	0.001	0.211	1.5951685300488623	
112	ASCORBIC-ACID	Seed	--	85	-0.28742699640223446	
112	ASCORBIC-ACID	Silk Stigma	11	11		
0	ASH	Seed	10000	90000	1.266866356182442	
0	ASH	Silk Stigma	33000	33000	-1	
3	ASPARTIC-ACID	Seed	2440	10150	-1.1042764584247933	USDA's Ag Handbook 8 and sequelae)
7	ASTRAGALIN	Pollen Or Spore	--	--		
0	BARIUM	Seed	--	14	-0.2565348698369248	
0	BAZZANENE	Root	--	--		
24	BENZALDEHYDE	Silk Essent. Oil	1000	1000		
24	BENZALDEHYDE	Shoot	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
24	BENZALDEHYDE	Husk Essent. Oil	--	--	
0	BENZOTHIAZOLE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	BENZOAZIONE	Sprout Seedling	--	--	
0	BENZYL-AMINE	Seed	3.4	3.4	
1	BENZYL-FORMATE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	BETA-AMYLASE	Plant	--	--	
9	BETA-AMYRIN	Shoot	--	--	
53	BETA-CAROTENE	Seed	0.5	2.5	-0.27303542142102893
53	BETA-CAROTENE	Silk Stigma Style	--	--	
0	BETA-CARYOPHYLLENE	Root	--	--	
0	BETA-COPAENE	Leaf	--	--	

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
13	BETA-IONONE	Silk Essent. Oil	1000	1000	
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	Plant	--	--	
13	BETA-IONONE	Husk Essent. Oil	12000	12000	
13	BETA-IONONE	Silk Stigma Style	--	--	
13	BETA-PINENE	Silk Essent. Oil	3000	3000	
47	BETA-SITOSTEROL	Silk Stigma Style	1300	1300	
47	BETA-SITOSTEROL	Seed	--	1200	-0.17049741772155916
47	BETA-SITOSTEROL	Shoot	--	--	
47	BETA-SITOSTEROL	Seed Oil	--	--	
0	BETA-ZEACAROTENE	Plant	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	BETA-ZEIN	Plant	--	--	
14	BETAINE	Root	59	59	-0.3636422915694051
14	BETAINE	Shoot	234	234	-0.18096389196058713
14	BETAINE	Silk Stigma Style	--	--	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	
0	BIPHENYL	Silk Stigma Style	--	--	
0	BISABOLOL	Essential Oil	--	90000	
4	BORON	Seed	--	15	-0.4322002310973592
0	BUTAN-1-OL	Silk Stigma Style	--	--	
0	BUTENYL-ISOTHIOCYANATE	Seed	--	--	
2	CADAVERINE	Plant	--	--	
3	CADMIUM	Seed	--	1	0.16237947527784696
102	CAFFEIC-ACID	Shoot	0.7	0.7	-0.7034493867354843
102	CAFFEIC-ACID	Sprout Seedling	--	--	
0	CAFFEIC-ACID-ESTER	Leaf	--	--	
28	CALCIUM	Seed	10	181	-0.7282806437807207
28	CALCIUM	Silk Stigma Style	2520	2520	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	CALMODULIN	Pollen Or Spore	45	45		
1	CALMODULIN	Seed	--	--		
0	CAMPESTANOL FERULATE	Fruit	--	--		
0	CAMPESTANOL-P-COUMARATE	Fruit	--	--		
2	CAMPESTEROL	Seed	--	320	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	Shoot	--	--		
2	CAMPESTEROL	Seed Oil	--	--		
0	CARBOHYDRATE	Seed	190209	838000	1.245405531356948	
0	CARBOHYDRATE	Silk Stigma Style	825000	825000		
0	CARBOHYDRATES	Seed	190209	838000	1.250274868867074	
0	CARBOHYDRATES	Silk Stigma Style	--	825000	1	
0	CAROTENE	Leaf	--	--		
37	CARVACROL	Seed	--	--		
37	CARVACROL	Silk Stigma Style	144	216		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
37	CARVACROL	Seed Essent. Oil	--	--		



Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
31	CARYOPHYLLENE	Leaf	--	--	
31	CARYOPHYLLENE	Husk Essent. Oil	--	--	
0	CASTASTERONE	Pollen Or Spore	0.12	0.12	
0	CASTASTERONE	Seed	--	--	
1	CELLULOSE	Plant	--	--	
2	CHELIDONIC-ACID	Shoot	--	--	
2	CHELIDONIC-ACID	Root	--	--	
0	CHITINASE A	Seed	--	--	
0	CHITINASE B	Seed	--	--	
7	CHLORINE	Fruit	330	330	-0.4646995262356249 ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
77	CHLOROGENIC-ACID	Leaf	--	--	
77	CHLOROGENIC-ACID	Silk Stigma Style	--	--	
1	CHOLESTEROL	Seed	--	--	
1	CHOLESTEROL	Root	--	--	
1	CHOLESTEROL	Shoot	--	--	
20	CHOLINE	Root	36	36	-0.4093082994350739
20	CHOLINE	Seed	0.43	430	-1.1693297391425415
20	CHOLINE	Shoot	85	85	-0.6541437736274379

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
24	CHROMIUM	Seed	--	1.65	-0.442125919797465
24	CHROMIUM	Silk Stigma 13 Style		13	
0	CHRYSANTHEMIN	Leaf	--	--	
0	CHRYSANTHEMIN	Seed	--	--	
0	CHRYSANTHEMIN	Pericarp	--	--	
1	CINNAMIC-ACID-ETHYL-ESTER	Silk Stigma -- Style	--	--	
15	CITRONELLOL	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	COBALT	Fruit	0.01	0.8	-0.43826781025666195
2	COBALT	Silk Stigma 64 Style		64	
4	COIXOL	Plant	--	--	
12	COPPER	Fruit	--	20	0.5588968590110831
0	COUMARIC-ACID-ESTER	Leaf	--	--	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
57	COUMARIN	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
10	CROCETIN	Leaf	--	--	
2	CRYPTOXANTHIN	Plant	--	--	
0	CUBEBENOL	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
7	CYANIDIN	Silk Stigma Style	--	--	
7	CYANIDIN	Leaf	--	--	
0	CYANIDIN-3-(6'-MALONYL-GLUCOSIDE)	Leaf	--	--	
0	CYANIDIN-3-DIMALONYL-GLUCOSIDE	Leaf	--	--	
0	CYANIDIN-3-GALACTOSIDE	Leaf	--	--	
0	CYANIDIN-3-GALACTOSIDE-P-COUMARIC-ACID-ESTER	Plant	--	--	
0	CYANIDIN-3-MONOSIDE	Plant	--	--	
5	CYANIN	Cob	--	--	
7	CYCLOARTENOL	Shoot	--	--	
7	CYCLOARTENOL	Root	--	--	
3	CYCLOEUCALENOL	Shoot	--	--	
1	CYCLOSADOL	Seed	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	CYCLOSADOL	Seed Oil	--	--		
0	CYCLOSATIVENE	Leaf	--	--		
0	CYSTATHIONE	Plant	--	--		
2	CYSTINE	Seed	260	1082	-1.438643753064175	USDA's Ag Handbook 8 and sequelae)
0	CYTOCHROME-C	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	D-GLUCURONIC-ACID	Plant	--	--		
5	DAUCOSTEROL	Silk Stigma	440	440		
		Style				
0	DEC-TRANS-2-CIS-4-DIEN-1-AL	Silk Essent. Oil	7000	7000		
0	DEC-TRANS-2-CIS-4-DIEN-1-AL	Plant	--	--		
0	DEC-TRANS-2-EN-1-AL	Silk Essent. Oil	3000	3000		
0	DEC-TRANS-2-EN-1-AL	Husk Essent. Oil	--	--		
0	DEC-TRANS-2-TRANS-4-DIEN-1-AL	Silk Essent. Oil	6000	20000		
0	DEC-TRANS-2-TRANS-4-DIEN-1-AL	Plant	--	--		
0	DEC-TRANS-2-TRANS-4-DIEN-1-AL	Husk Essent. Oil	--	37000		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	DECA-TRANS-2,TRANS-4-DIEN-1-AL	Silk Stigma	--	--	
		Style			
0	DECA-TRANS-2,TRANS-4-DIEN-1-AL	Husk	--	37000	
		Essent. Oil			
0	DECA-TRANS-2,TRANS-4-DIEN-1-AL	Seed	--	--	
		Essent. Oil			
0	DECA-TRANS-2-CIS-4-DIEN-1-AL	Silk Stigma	--	--	
		Style			
0	DECA-TRANS-2-CIS-4-DIEN-1-AL	Seed	--	--	
		Essent. Oil			
0	DECA-TRANS-2-CIS-4-DIEN-1-AL	Husk	13000	13000	
		Essent. Oil			
0	DECA-TRANS-2-TRANS-4-TRANS-7-TRIEN-1-AL	Husk	--	--	
		Essent. Oil			
0	DECA-TRANS-2-TRANS-7-TRIEN-1-AL	Plant	--	--	
0	DECA-TRANS-2-TRANS-7-TRIEN-1-AL	Husk	--	37000	
		Essent. Oil			
1	DECAN-1-AL	Silk	10000	90000	
		Essent. Oil			
1	DECAN-1-AL	Husk	24000	24000	
		Essent. Oil			
0	DECAN-1-OL	Silk Stigma	--	--	
		Style			
0	DECAN-2-OL	Essential	--	15000	
		Oil			
0	DECAN-2-OL	Silk Stigma	--	--	
		Style			
0	DECAN-2-OL	Seed	15000	15000	
		Essent. Oil			
0	DECAN-2-OL	Husk	--	--	
		Essent. Oil			

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	DECAN-2-ONE	Essential Oil	--	--	
0	DECAN-2-ONE	Husk Essent. Oil	--	--	
0	DECAN-2-ONE	Seed Essent. Oil	--	--	
0	DELTA-AMINO-LEVULINIC-ACID	Sprout Seedling	--	--	
9	DELTA-CADINENE	Leaf	--	--	
0	DEOXY-RIBONUCLEASE	Tissue Culture	--	--	
0	DIAMINO-PROPANE	Sprout Seedling	--	--	
2	DIETHYL-AMINE	Seed	--	--	
0	DIGALACTOSYL-DIGLYCERIDE	Seed	--	--	
0	DIHYDRO-PHASEIC-ACID	Flower	--	--	
0	DIHYDROSITOSTEROL	Plant	--	--	
0	DIMBOA-GLUCOSIDE	Leaf	--	--	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
2	DIMETHYL-AMINE	Seed	1.1	3.5	-0.32293776451998035
0	DIOXYCINNAMIC-ACID	Plant	--	--	
0	DODECAN-1-AL	Silk Essent. Oil	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	DODECAN-1-AL	Husk Essent. Oil	--	--	
0	ENT-17-HYDROXY-KAUR-15-EN-19-OIC ACID	Shoot	--	--	
0	ENT-KAUR-15-EN-17-BETA-OL	Shoot	--	--	
0	EO	Silk Stigma Style	800	1200	-1
5	ERGOSTEROL	Root	--	--	
5	ERGOSTEROL	Silk Stigma Style	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
8	ESTRONE	Seed Oil	--	0.04	
24	ETHANOL	Silk Stigma Style	--	--	
6	ETHYL-ACETATE	Silk Stigma Style	--	--	
6	ETHYL-ACETATE	Shoot	--	--	
0	ETHYL-AMINE	Seed	2.4	2.4	0.24942329796316184
0	ETHYL-AMINE	Sprout Seedling	--	--	
0	ETHYL-METHYL-AMINE	Seed	--	--	
1	ETHYL-PHENYLACETATE	Silk Essent. Oil	250000	740000	
76	EUGENOL	Seed	--	--	
0	FAT	Seed	10480	54579	-1.1104042561283503

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	FAT	Silk Stigma Style	25000	43000	-1
0	FERREDOXIN	Leaf	37	37	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
61	FERULIC-ACID	Leaf	--	--	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
61	FERULIC-ACID	Seed	6	27	-0.39634822822137994
61	FERULIC-ACID	Sprout Seedling	--	--	
0	FERULOYLQUINIC-ACID	Sprout Seedling	--	--	
15	FIBER	Silk Stigma Style	81000	81000	1
0	FIXED-OIL	Seed	--	--	
0	FLUORENE	Silk Stigma Style	--	--	
15	FOLACIN	Fruit	1	2	-0.019192793995839758
15	FOLACIN	Seed	0.142	0.4	-0.9100137393533284



Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
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.
2	FRIEDELIN	Shoot	--	--		
8	FRUCTOSE	Fruit	1000	4000	-0.878981825433364	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FUCOSE	Root	--	--		
6	FURFURAL	Plant	--	--		
6	FURFURAL	Shoot	--	--		
1	GALACTOSE	Plant	--	--		
0	GALACTOXYLASE	Plant	--	--		
62	GALLIC-ACID	Tissue Culture	--	--		
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.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
2	GAMMA-NONALACTONE	Silk Stigma	--	--	
0	GAMMA-SITOSTEROL	Plant	--	--	
14	GAMMA-TOCOPHEROL	Oil	752	752	1.413007494257776
0	GEOSMIN	Essential Oil	--	4000	
0	GEOSMIN	Plant	--	--	
0	GEOSMIN	Silk Stigma	--	--	
0	GEOSMIN	Husk Essent. Oil	2000	2000	
0	GEOSMIN	Seed Essent. Oil	4000	4000	
13	GERANIAL	Hull Husk	--	--	
13	GERANIAL	Husk Essent. Oil	--	--	
35	GERANIOL	Silk Stigma	--	--	
2	GERANYL-ACETONE	Seed	--	--	
2	GERANYL-ACETONE	Husk Essent. Oil	--	--	
2	GERANYL-ACETONE	Seed Essent. Oil	--	--	
0	GIBBERELLINS	Flower	--	--	
0	GLOBULIN	Seed	4500	6000	-1

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
7	GLUCOSE	Fruit	2000	5000	-0.8420433042200329	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	GLUCOSE	Sprout Seedling	--	--		
8	GLUTAMIC-ACID	Seed	6360	26457	-0.6436731379916952	USDA's Ag Handbook 8 and sequelae)
0	GLUTAMIC-ACID-DECARBOXYLASE	Plant	--	--		
7	GLUTATHIONE	Seed	54	169		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
7	GLUTATHIONE	Root	--	--		
7	GLUTATHIONE	Fruit	--	--		
0	GLUTELIN	Fruit	14685	67325		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

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.
8	GLYCEROL	Plant	--	--		
12	GLYCINE	Seed	1270	5283	-0.8196658866632359	USDA's Ag Handbook 8 and sequelae)
4	GLYCOLIC-ACID	Silk Stigma Style	--	--		
18	GUAIACOL	Seed	--	--		
6	GUANIDINE	Plant	--	--		
0	GUM	Silk Stigma Style	--	38000		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	HEMICELLULOSE	Cob	--	--		
0	HEPT-4-EN-2-OL	Husk Essent. Oil	64000	64000		
0	HEPT-4-EN-2-OL	Seed Essent. Oil	120000	120000		
0	HEPT-4-EN-2-OL	Silk Stigma Style	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	HEPT-4-EN-2-ONE	Essential Oil	--	15000	
0	HEPT-4-EN-2-ONE	Seed Essent. Oil	15000	15000	
0	HEPT-4-EN-OL	Essential Oil	--	120000	
0	HEPT-4-EN-OL	Plant	--	--	
0	HEPT-CIS-4-EN-2-OL	Silk Essent. Oil	10000	10000	
0	HEPT-CIS-4-EN-2-OL	Leaf	--	--	
0	HEPT-CIS-4-EN-2-ONE	Leaf	--	--	
0	HEPT-TRANS-2-EN-1-AL	Silk Stigma	--	--	
0	HEPT-TRANS-2-EN-1-AL	Husk Essent. Oil	--	--	
0	HEPTA-TRANS-2-CIS-4-DIEN-1-AL	Husk Essent. Oil	19000	21000	
0	HEPTA-TRANS-2-CIS-4-DIEN-1-AL	Silk Essent. Oil	3000	3000	
0	HEPTA-TRANS-2-EN-1-AL	Silk Essent. Oil	5000	5000	
0	HEPTA-TRANS-2-TRANS-4-DIEN-1-AL	Silk Essent. Oil	3000	3000	
0	HEPTAN-1-AL	Silk Essent. Oil	20000	50000	
0	HEPTAN-1-AL	Plant	--	--	
0	HEPTAN-1-AL	Husk Essent. Oil	10000	10000	
0	HEPTAN-1-OL	Silk Essent. Oil	20000	30000	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	HEPTAN-1-OL	Seed Essent. Oil	--	--	
0	HEPTAN-2-OL	Silk Essent. Oil	10000	20000	
0	HEPTAN-2-OL	Essential Oil	15000	250000	
0	HEPTAN-2-OL	Plant	--	--	
0	HEPTAN-2-OL	Silk Stigma Style	--	--	
0	HEPTAN-2-OL	Husk Essent. Oil	56000	56000	
0	HEPTAN-2-OL	Seed Essent. Oil	250000	250000	
0	HEPTAN-2-ONE	Leaf	--	--	
0	HEPTAN-2-ONE	Husk Essent. Oil	--	--	
0	HEPTAN-2-ONE	Seed Essent. Oil	15000	15000	
0	HEX-1-EN-3-OL	Silk Stigma Style	--	--	
0	HEX-CIS-3-EN-1-AL	Leaf	--	--	
0	HEX-CIS-3-EN-1-OL	Husk Essent. Oil	52000	52000	
0	HEX-CIS-3-EN-1-OL	Silk Essent. Oil	5000	5000	
0	HEX-CIS-3-EN-1-OL	Shoot	--	--	
0	HEX-CIS-3-EN-1-OL	Leaf	--	--	
0	HEX-CIS-3-EN-1-OL	Silk Stigma Style	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	HEX-CIS-3-EN-1-YL-ACETATE	Leaf	--	--	
0	HEX-TRANS-2-EN-1-AL	Plant	--	--	
0	HEX-TRANS-2-EN-1-AL	Leaf	--	--	
0	HEX-TRANS-2-EN-1-AL	Silk Stigma Style	--	--	
0	HEX-TRANS-2-EN-1-AL	Husk Essent. Oil	68000	68000	
0	HEX-TRANS-2-EN-1-OL	Silk Stigma Style	--	--	
0	HEX-TRANS-2-TRANS-4-DIEN-1-AL	Silk Essent. Oil	3000	3000	
0	HEX-TRANS-3-EN-1-OL	Silk Essent. Oil	--	--	
0	HEX-TRANS-3-EN-1-OL	Silk Stigma Style	--	--	
0	HEXA-TRANS-2-TRANS-4-DIEN-1-AL	Silk Stigma Style	--	--	
0	HEXADECENOIC-ACID	Seed	--	--	
0	HEXAN-1-AL	Silk Essent. Oil	2000	10000	
0	HEXAN-1-AL	Plant	--	--	
0	HEXAN-1-AL	Leaf	--	--	
0	HEXAN-1-AL	Shoot	--	--	
0	HEXAN-1-AL	Hull Husk	--	--	
0	HEXAN-1-AL	Husk Essent. Oil	50000	50000	
0	HEXAN-1-AL	Seed Essent. Oil	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	HEXAN-1-OL	Silk Essent. Oil	2000	10000		
0	HEXAN-1-OL	Plant	--	--		
0	HEXAN-1-OL	Silk Stigma Style	--	--		
0	HEXAN-1-OL	Leaf	--	--		
0	HEXAN-1-OL	Husk Essent. Oil	62000	62000		
0	HEXAN-1-OL	Seed Essent. Oil	--	--		
0	HEXAN-2-OL	Silk Stigma Style	--	--		
0	HEXAN-2-ONE	Husk Essent. Oil	--	--		
0	HEXAN-2-ONE	Essential Oil	--	--		
0	HEXAN-2-ONE	Seed Essent. Oil	--	--		
0	HEXENYL-ISOTHIOCYANATE	Seed	--	--		
7	HISTIDINE	Seed	890	3702	-0.6439051932934873	USDA's Ag Handbook 8 and sequelae)
7	HISTIDINE	Embryo	--	--		



Chemical Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8 HORDENINE	Silk Stigma	--	--	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.
0 HYDROXAMIC-ACID	Leaf	--	--	
15 INDOLE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
15 INDOLE	Shoot	--	--	
7 INDOLE-3-ACETIC-ACID	Seed	--	--	
7 INDOLE-3-ACETIC-ACID	Cotyledon	--	--	
7 INDOLE-3-ACETIC-ACID	Root	--	--	
7 INDOLE-3-ACETIC-ACID	Juice	--	--	
0 INDOLE-3-ACETIC-ACID-CELLULOSIGLUCAN	Seed	--	--	
0 INDOLE-3-ACETIC-ACID-METHYL-ESTER	Seed	--	--	
0 INDOLE-3-ACETIC-ACID-MYOINOSITOL	Seed	--	--	
3 INDOLE-3-BUTYRIC-ACID	Seed	--	--	
3 INDOLE-3-BUTYRIC-ACID	Leaf	--	--	
8 INOSITOL	Plant	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
12	IODINE	Seed	0.012	0.012	-0.2773081368232745	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	IRON	Seed	5	41	-0.5101323955139533	
6	IRON	Silk Stigma	504	504		
0	ISOAMYL-AMINE	Sprout Seedling	--	--		
0	ISOBEHENIC-ACID	Seed	80	80		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	ISOLEUCINE	Seed	1290	5366	-0.654028618470496	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ISOPROPYL-AMINE	Seed	2.3	2.3		
22	ISOQUERCITRIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
22	ISOQUERCITRIN	Pollen Or Spore	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ISORHAMNETIN-3,4'-O-DIGLUCOSIDE	Pollen Or Spore	--	--		
0	ISORHAMNETIN-3-O-BETA-D-GLUCOSIDE	Pollen Or Spore	--	--		
0	ISORHAMNETIN-3-O-GLUCOSIDE-4'-O-DIGLUCOSIDE	Pollen Or Spore	--	--		
0	ISORHAMNETIN-3-O-NEOHESPEROSIDE	Pollen Or Spore	--	--		
1	ISOVALERALDEHYDE	Shoot	--	--		
0	KAEMPFEROL-3-O-ALPHA-L-GALACTOSIDE	Pollen Or Spore	--	--		
0	KILOCALORIES	Silk Stigma Style	3690	3690		
8	LACTIC-ACID	Plant	--	--		
1	LANOSTEROL	Plant	--	--		
0	LEAD	Seed	--	14	3.374509206732274	
2	LEUCINE	Seed	3480	14477	-0.24929490146930922	USDA's Ag Handbook 8 and sequelae)
1	LEUCOCYANIDIN	Plant	--	--		
1	LEUCOPELARGONIDIN	Plant	--	--		
13	LIGNIN	Stem	213000	245000	0.9696172791853698	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
13	LIGNIN	Cob	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	LIGNOCERIC-ACID	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
60	LIMONENE	Silk Essent. Oil	7000	7000		
60	LIMONENE	Leaf	--	--		
60	LIMONENE	Husk Essent. Oil	--	--		
60	LIMONENE	Silk Stigma Style	--	--		
60	LIMONENE	Seed Essent. Oil	--	--		
0	LINALOL	Plant	--	--		
53	LINALOOL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
53	LINALOOL	Leaf	--	--		
0	LINGIFOLENE	Root	--	--		
27	LINOLEIC-ACID	Seed	5420	22547	-0.724648681207493	USDA's Ag Handbook 8 and sequelae)
0	LIPOXIDASE	Plant	--	--		
11	LITHIUM	Seed	0.048	0.22	-0.9999999999999998	
0	LONGIFOLENE	Root	--	--		
0	LOPHENOL	Shoot	--	--		
15	LUTEIN	Leaf	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	LUTEIN+_ZEAXANTHIN	Seed	7.3	22	
0	LUTEOFOROL	Silk Stigma -- Style	--	--	
1	LUTEOLINIDIN	Silk Stigma -- Style	--	--	
4	LYSINE	Seed	1370	5699	-0.8668614509130552 USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Seed	100	1600	-0.531836823348677
65	MAGNESIUM	Silk Stigma 1790 Style	1790	1790	
0	MALEIC-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.
0	MALIC-ACID-DEHYDROGENASE	Plant	--	--	
1	MALONIC-ACID	Plant	--	--	
0	MALTOSYL-TRANSFERASE	Plant	--	--	
14	MANGANESE	Seed	0.84	63	0.11807339481595111
14	MANGANESE	Silk Stigma 34 Style	34	34	-1
3	MANNOSE	Plant	1	7	
3	MAYSIN	Silk Stigma -- Style	--	--	
3	MAYSIN	Leaf	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
23	MELATONIN	Seed	0.001	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.
63	MENTHOL	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
63	MENTHOL	Silk Stigma Style	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
1	MERCURY	Seed	--	0.072	-0.30034903182835404
0	MESO-INOSITOL	Pollen Or Spore	--	--	
15	METHIONINE	Seed	670	2787	-0.39450659411183164 USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Pollen Or Spore	--	--	

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	METHYL-2-THIENYL-KETONE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
1	METHYL-AMINE	Seed	26.8	27	-0.00897230932189183
2	METHYL-PHENYLACETATE	Silk Essent. Oil	30000	40000	
0	METHYL-PYRAN-2-CARBOXALDEHYDE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	MEVALONIC-ACID	Seed	14	14	
2	MOLYBDENUM	Seed	0.084	6.3	0.4479349477443534
0	MONOGALACTOSYL-DIGLYCERIDE	Plant	--	--	
0	MYO-INOSITOL	Plant	--	--	
22	MYRCENE	Seed	--	--	
22	MYRCENE	Leaf	--	--	
22	MYRCENE	Husk Essent. Oil	--	--	
22	MYRCENE	Seed Essent. Oil	--	--	
0	MYRECITIN-GLUCOSIDE	Plant	--	--	
6	MYRISTIC-ACID	Seed	--	--	
0	N-DEMETHYL-DIAZEPAM	Seed	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	N-METHYL-BETA-PHENETHYLAMINE	Seed	1.1	1.1	
0	N-METHYL-PHENETHYLAMINE	Seed	1.1	1.1	-1
0	N-PROPYL-GALLATE	Seed	--	--	
1	NAPHTHALENE	Silk Essent. Oil	3000	3000	
1	NAPHTHALENE	Husk Essent. Oil	--	--	
1	NAPHTHALENE	Silk Stigma Style	--	--	
1	NAPHTHALENE	Seed Essent. Oil	--	--	
0	NEOCRYPTOXANTHIN	Plant	--	--	
2	NEOXANTHIN	Leaf	--	--	
11	NEROLIDOL	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
39	NIACIN	Cob	4	16	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
39	NIACIN	Seed	16	71	0.8415661421509846
39	NIACIN	Silk Stigma Style	--	25	



Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
3	NICKEL	Seed	0.12	6.3	0.2960271506106448
1	NICOTIANAMINE	Leaf	--	--	
0	NON-CIS-3-EN-1-OL	Essential Oil	--	30000	
0	NON-CIS-3-EN-1-OL	Husk Essent. Oil	--	--	
0	NON-CIS-3-EN-1-OL	Seed Essent. Oil	30000	30000	
0	NON-TRANS-2-EN-1-AL	Husk Essent. Oil	10000	10000	
0	NON-TRANS-2-EN-1-AL	Silk Essent. Oil	10000	10000	
0	NON-TRANS-2-EN-1-AL	Leaf	--	--	
0	NONA-TRANS-2-TRANS-4-DIEN-1-AL	Silk Essent. Oil	3000	3000	
0	NONA-TRANS-2-TRANS-4-DIEN-1-AL	Husk Essent. Oil	--	--	
0	NONAL-N-2-OL	Silk Stigma Style	--	--	
0	NONAN-1-AL	Silk Essent. Oil	80000	28000	
0	NONAN-1-AL	Husk Essent. Oil	97000	97000	
0	NONAN-1-AL	Seed Essent. Oil	--	--	
0	NONAN-1-OL	Essential Oil	--	30000	
0	NONAN-1-OL	Husk Essent. Oil	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	NONAN-1-OL	Seed Essent. Oil	30000	30000	
0	NONAN-1-OL	Silk Stigma Style	--	--	
0	NONAN-2-OL	Silk Essent. Oil	2000	2000	
0	NONAN-2-OL	Essential Oil	--	260000	
0	NONAN-2-OL	Plant	--	--	
0	NONAN-2-OL	Husk Essent. Oil	132000	132000	
0	NONAN-2-OL	Seed Essent. Oil	260000	260000	
0	NONAN-2-ONE	Essential Oil	--	20000	
0	NONAN-2-ONE	Husk Essent. Oil	--	--	
0	NONAN-2-ONE	Silk Stigma Style	--	--	
0	NONAN-2-ONE	Seed Essent. Oil	20000	20000	
0	O-DIETHYL-PHTHALATE	Silk Stigma Style	--	--	
0	OBTUSIFOLIOL	Shoot	--	--	
0	OBTUSIFOLIOL	Sprout Seedling	--	--	
0	OCT-1-EN-3-OL	Silk Essent. Oil	1000	1000	
0	OCT-1-EN-3-OL	Plant	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	OCT-1-EN-3-OL	Silk Stigma	--	--	Style
0	OCT-1-EN-3-OL	Husk	25000	25000	Essent. Oil
0	OCT-1-EN-3-OL	Seed	--	--	Essent. Oil
0	OCT-TRANS-2-EN-1-AL	Silk	1000	1000	Essent. Oil
0	OCT-TRANS-2-EN-1-AL	Plant	--	--	
0	OCT-TRANS-2-EN-1-AL	Husk	37000	37000	Essent. Oil
0	OCT-TRANS-2-EN-1-OL	Plant	--	--	
0	OCT-TRANS-2-EN-1-OL	Silk Stigma	--	--	Style
0	OCT-TRANS-2-EN-1-OL	Husk	10000	10000	Essent. Oil
0	OCTA-3-5-DIEN-2-ONE	Silk Stigma	--	--	Style
0	OCTA-3-5-DIENE-2-ONE	Silk Stigma	--	--	Style
0	OCTA-TRANS-2-TRANS-5-DIEN-2-ONE	Silk	2000	2000	Essent. Oil
0	OCTADECADIENOIC-ACID	Seed	--	--	
0	OCTADECATRIENOIC-ACID	Seed	--	--	
0	OCTADECENOIC-ACID	Seed	--	--	
0	OCTAN-1-AL	Husk	--	--	Essent. Oil
0	OCTAN-1-OL	Silk	5000	10000	Essent. Oil

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	OCTAN-1-OL	Silk Stigma	--	--		
0	OCTAN-1-OL	Husk	--	--		
0	OCTAN-1-OL	Essent. Oil				
0	OCTAN-1-OL	Seed	--	--		
0	OCTAN-1-OL	Essent. Oil				
0	OCTAN-2-OL	Essential Oil	--	20000		
0	OCTAN-2-OL	Plant	--	--		
0	OCTAN-2-OL	Silk Stigma	--	--		
0	OCTAN-2-OL	Style				
0	OCTAN-2-OL	Husk	12000	12000		
0	OCTAN-2-OL	Essent. Oil				
0	OCTAN-2-OL	Seed	20000	20000		
0	OCTAN-2-OL	Essent. Oil				
0	OCTAN-2-ONE	Husk	--	--		
0	OCTAN-2-ONE	Essent. Oil				
0	OCTAN-2-ONE	Essential Oil	--	--		
0	OCTAN-2-ONE	Seed	--	--		
0	OCTAN-2-ONE	Essent. Oil				
64	OLEANOLIC-ACID	Silk Stigma	--	--		
64	OLEANOLIC-ACID	Style				
18	OLEIC-ACID	Seed	3470	14435	-0.8604360359565065	USDA's Ag Handbook 8 and sequelae)
4	ORIENTIN	Silk Stigma	--	--		
4	ORIENTIN	Style				

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
9	OXALIC-ACID	Fruit	99	99	-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.
25	P-COUMARIC-ACID	Seed	4	46	-0.4061463765475915
25	P-COUMARIC-ACID	Shoot	1	1	-0.7071067811865475 Jim Duke's personal files.
25	P-COUMARIC-ACID	Sprout Seedling	--	--	
4	P-HYDROXYBENZALDEHYDE	Cob	--	--	
0	P-VINYL-GUAIACOL	Husk Essent. Oil	--	--	
13	PALMITIC-ACID	Seed	1710	7114	-0.5528161466254179 USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Silk Stigma Style	--	--	
2	PALMITOLEIC-ACID	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
11	PANTOTHENIC-ACID	Cob	3	7		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
11	PANTOTHENIC-ACID	Seed	4	34	1.8074305020007495	USDA's Ag Handbook 8 and sequelae)
0	PECTIC POLYSACCHARIDE	Shoot	--	--		
24	PECTIN	Leaf	10000	17000	-0.9298021026280799	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PECTINS	Plant	10000	17000		
7	PELARGONIDIN	Silk Stigma Style	--	--		
0	PELARGONIDIN-3-GLUCOSIDE	Plant	--	--		
0	PENT-1-EN-2-OL	Silk Stigma Style	--	--		
0	PENTAN-1-OL	Silk Stigma Style	--	--		
0	PENTAN-2-OL	Silk Stigma Style	--	--		
0	PENTAN-3-ONE	Silk Stigma Style	--	--		
0	PEROXIDASE	Anther	--	--		

Chemical Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0 PHENANTHRENE	Leaf	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
6 PHENETHYL-ALCOHOL	Silk Stigma	--	--		
2 PHENYL-ACETALDEHYDE	Essent. Oil	1000	1000		
2 PHENYL-ACETALDEHYDE	Plant	--	--		
2 PHENYL-ACETALDEHYDE	Husk Essent. Oil	13000	13000		
2 PHENYL-ACETALDEHYDE	Seed Essent. Oil	--	--		
2 PHENYLACETIC-ACID	Pollen Or Spore	--	--		
7 PHENYLALANINE	Seed	1500	6240	-0.6329654729366279	USDA's Ag Handbook 8 and sequelae)
0 PHENYLALANINE-AMMONIA-LYASE	Plant	--	--		
2 PHOSPHATIDYL-CHOLINE	Plant	--	--		
0 PHOSPHATIDYL-ETHANOLAMINE	Plant	--	--		
0 PHOSPHATIDYL-INOSITOL	Plant	--	--		
0 PHOSPHOENOL-PYRUVATE	Sprout Seedling	--	--		
0 PHOSPHOLIPIDS	Seed	--	--		
4 PHOSPHORUS	Seed	600	4066	-0.34019475720359266	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
4	PHOSPHORUS	Silk Stigma Style	287	287		
5	PHYLLUQUINONE	Oil	--	0.03	-1.0603756768844963	
5	PHYLLUQUINONE	Fruit	--	0.003	-0.2325377501021479	
0	PHYTATE	Seed	310	6400	-0.7658880709229736	
9	PHYTIC-ACID	Seed	7200	12900	-0.3647475557448543	
9	PHYTIC-ACID	Pollen Or Spore	2600	2600		
0	PHYTIN	Plant	--	--		
0	PHYTOFLUENE	Plant	--	--		
2	PHYTOHAEMAGGLUTININ	Silk Stigma Style	--	--		
0	PHYTOHEMAGGLUTININ	Silk Stigma Style	--	--		
2	PHYTOSTEROLS	Seed	600	2800	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	POTASSIUM	Seed	2400	11450	-0.09850155432250932	
14	POTASSIUM	Silk Stigma Style	12200	12200		
0	PROLAMINE	Seed	45000	55000		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.



Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
0	PROLINE	Root	69	69	-1.2553270966850225	
0	PROLINE	Seed	2920	12147	0.15935583041046553	
0	PROLINE	Shoot	11	11	-0.7071737762939713	
0	PROPAN-1-OL	Silk Stigma Style	--	--		
0	PROTEASE INHIBITOR C1-4-A	Endosperm	--	--		
0	PROTEIN	Seed	22520	132000	-0.9055287385749634	
0	PROTEIN	Silk Stigma Style	99000	99000	-1	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
43	PROTocatechuic-ACID	Tissue Culture	--	--		
0	PROTOSAN	Seed Oil	--	--		
0	PUTRESCINE	Sprout Seedling	--	--		
43	PYRIDOXINE	Cob	1	3	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.	
0	PYRROLE	Silk Stigma Style	--	--		
1	PYRROLIDINE	Seed	--	--		
1	PYRUVIC-ACID	Sprout Seedling	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
176	QUERCETIN	Plant	--	--		
176	QUERCETIN	Pollen Or Spore	--	--		
0	QUERCETIN-3,3'-O-BETA-D-GLUCOSIDE	Pollen Or Spore	--	--		
0	QUERCETIN-3,7-DI-O-BETA-D-GLUCOSIDE	Pollen Or Spore	--	--		
0	QUERCETIN-3-O-ALPHA-D-RHAMNOSYL-O-BETA-L-GALACTOSIDE?	Pollen Or Spore	--	--		
2	QUERCETIN-3-O-BETA-D-GLUCOSIDE	Pollen Or Spore	--	--		
0	QUERCETIN-3-O-BETA-D-GLUCOSYL-O-ALPHA-L-GALACTOSIDE?	Pollen Or Spore	--	--		
0	QUERCETIN-3-O-BETA-D-NEOHESPEROSIDE	Pollen Or Spore	--	--		
0	QUERCETIN-3-O-GLUCOSIDE-3'-O-DIGLUCOSIDE	Pollen Or Spore	--	--		
0	QUERCETIN-DIGLUCOSIDE	Plant	--	--		
1	QUINIC-ACID	Plant	--	--		
1	RAFFINOSE	Fruit	1000	3000	-1	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	RESIN	Silk Stigma -- Style	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	RHAMNOGALACTURONAN-I	Tissue Culture	--	--	
0	RHAMNOSE	Silk Stigma -- Style	--	--	
15	RIBOFLAVIN	Cob	1	3	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	RIBOFLAVIN	Fruit	1	4	-0.21615825716438572
15	RIBOFLAVIN	Silk Stigma 1.5 Style	1.5	1.5	-1
2	RIBONUCLEASE	Tissue Culture	--	--	
7	RICINOLEIC-ACID	Plant	--	--	
0	RUBISCO	Plant	--	--	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

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	SALICYLATES	Fruit	1	5	-0.3224047195908981
0	SALICYLIC-ACID-METHYL-ESTER	Leaf	--	--	
0	SAPONIN	Silk Stigma Style	23000	32000	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SD	Plant	--	--	
60	SELENIUM	Seed	--	0.5	-0.2588230372812833
60	SELENIUM	Silk Stigma Style	--	5.7	
1	SERINE	Seed	1530	6365	-0.8067159497282409 USDA's Ag Handbook 8 and sequelae)
0	SEROTIN	Plant	--	--	
0	SI	Plant	--	--	
4	SILICON	Silk Stigma Style	237	237	
3	SILVER	Seed	0.012	0.055	-0.18268699040920042
0	SITOSTANOL FERULATE	Bran	--	--	
0	SITOSTANOL-P-COUMARATE	Bran	--	--	
1	SODIUM	Seed	--	757	0.48595911191753866

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	SODIUM	Silk Stigma Style	130	130		
1	SPERMIDINE	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	SPERMINE	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
10	SQUALENE	Seed	--	--		
10	SQUALENE	Seed Oil	--	--		
10	SQUALENE	Pollen Or Spore	--	--		
5	STARCH	Seed	--	--		
8	STEARIC-ACID	Seed	110	457	-0.5554746921056529	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Silk Stigma Style	--	--		
12	STIGMASTEROL	Seed	--	210	-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.)

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
12	STIGMASTEROL	Root	--	--		
12	STIGMASTEROL	Shoot	--	--		
12	STIGMASTEROL	Seed Oil	--	--		
12	STIGMASTEROL	Silk Stigma Style	--	--		
0	STRONTIUM	Seed	0.12	14	-0.3817365776937731	
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.
7	SUCCINIC-ACID	Plant	--	--		
14	SUCROSE	Fruit	9000	19000	-0.6121007856075014	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
14	SUCROSE	Leaf	--	--		
14	SULFUR	Fruit	6	1140	-0.19109679700613894	
4	SYRINGALDEHYDE	Seed	--	--		
4	SYRINGALDEHYDE	Cob	--	--		
6	SYRINGIC-ACID	Tissue Culture	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
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.	
0	TEASTERONE	Pollen Or Spore	0.041	0.041		
0	TEASTERONE	Seed	--	--		
31	THIAMIN	Fruit	2	8	0.3414272755878574	
31	THIAMIN	Silk Stigma 2.1 Style	2.1	-0.9999999999999999		
4	THREONINE	Seed	1290	5366	-0.6199585002377315	USDA's Ag Handbook 8 and sequelae)
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.	
71	THYMOL	Seed Essent. Oil	--	--		
4	TIN	Seed	1	1.8	-0.39709066551927835	
4	TIN	Silk Stigma -- Style	--	--		
0	TITANIUM	Seed	0.06	63	1.607580416896206	
0	TOCOPHEROLS	Seed	900	1000	0.07466844710536599	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	TRANS-24-METHYL-23-DEHYDRO-LOPHENOL	Seed	--	--	
0	TRANS-24-METHYL-23-DEHYDRO-LOPHENOL	Seed Oil	--	--	
2	TRANS-BETA-FARNESENE	Leaf	--	--	
2	TRANS-BETA-FARNESENE	Root	--	--	
2	TRANS-FERULIC-ACID	Plant	--	--	Stitt, Paul. Why George should eat broccoli.
2	TRANS-FERULIC-ACID	Seed	1800	1800	1.3913139699802963
0	TRANS-ISO-MENTH-5-EN-2-OL	Plant	--	--	
0	TRANS-SINAPIC-ACID	Plant	--	--	
0	TRICARBALLYL-ACID	Plant	--	--	
0	TRICIN-GLYCOSIDE	Plant	--	--	
0	TRIDECAN-1-AL	Husk Essent. Oil	--	--	
15	TRIGONELLINE	Seed	4	4	-0.46810441555051263
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.
29	TRYPTOPHAN	Seed	230	957	-0.8075994083741
29	TRYPTOPHAN	Cotyledon	--	--	
0	TYPHASTEROL	Pollen Or Spore	0.066	0.066	



Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
8	TYROSINE	Seed	1230	5117	-0.6078994158411758 USDA's Ag Handbook 8 and sequelae)
0	UNDEC-TRANS-2-EN-1-AL	Silk Essent. Oil	2000	2000	
0	UNDECAN-1-AL	Husk Essent. Oil	--	--	
0	UNDECAN-2-OL	Husk Essent. Oil	--	--	
0	UNDECAN-2-OL	Essential Oil	--	45000	
0	UNDECAN-2-OL	Silk Stigma Style	--	--	
0	UNDECAN-2-OL	Seed Essent. Oil	45000	45000	
0	UNDECAN-2-ONE	Husk Essent. Oil	--	--	
0	UREASE	Plant	--	--	
0	URIDINE	Seed	--	--	
0	URONIC-ACID	Plant	--	--	
3	VALINE	Seed	1850	7696	-0.5315006159571728 USDA's Ag Handbook 8 and sequelae)
16	VANADIUM	Seed	0.05	1.35	0.6938324504308431
24	VANILLIC-ACID	Sprout Seedling	--	--	
24	VANILLIC-ACID	Tissue Culture	--	--	
28	VANILLIN	Seed	4	31	Jim Duke's personal files.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
28	VANILLIN	Shoot	--	--	
28	VANILLIN	Cob	--	--	
0	VINYL-ETHYL-PHENETHYL-KETONE	Leaf	--	--	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	VIOLAXANTHIN	Leaf	--	--	
0	VIT-B-6	Seed	1	3	-0.7480591991066328
0	VIT-D-3	Leaf	--	--	
0	VIT-K	Silk Stigma Style	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
18	VITEXIN	Silk Stigma Style	--	--	
0	WATER	Seed	100000	885000	2.5226907802804104
0	WATER	Silk Stigma Style	620000	620000	1
43	XANTHOTOXIN	Root	--	--	
0	XYLENE	Husk Essent. Oil	--	--	
0	XYLOARABINOSE	Plant	--	--	
3	XYLOSE	Plant	--	--	
0	YTTERBIUM	Seed	0.02	4.5	3.3139442766048837

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	ZEA GLYCOPROTEIN U-CSE-100	Silk Stigma	--	--	
0	ZEA GLYCOPROTEIN U-CSE-300	Silk Stigma	--	--	
0	ZEA MAYS ALPHA-AMYLASE INHIBITOR	Seed	--	--	
0	ZEA MAYS PROTEASE INHIBITOR	Fruit	--	--	
0	ZEAMATIN	Seed	--	--	
0	ZEANIN	Seed	--	--	
0	ZEANOSIDE A	Seed	--	--	
0	ZEANOSIDE-B	Seed	--	--	
0	ZEANOSIDE-C	Seed	1.2	1.2	
4	ZEARALENONE	Plant	--	--	
2	ZEATIN	Plant	0.014	0.014	
0	ZEATIN-RIBOSIDE	Leaf	--	--	
5	ZEAXANTHIN	Plant	--	--	
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.
0	ZEIN	Seed	--	--	
0	ZEINOXANTHIN	Plant	--	--	

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ZETA-CAROTENE	Seed	--	--	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
77	ZINC	Seed	4	20	-0.7135039207289134
0	ZIRCONIUM	Seed	0.2	1.8	-0.5968587488663253