

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Panax quinquefolius*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	1,3-DIMETHYL-ACRYLIC-ACID	Plant				--
0	1,9-CIS-HEPTADECADIENE-1,6-DIYN-3-OL	Plant				--
0	1,9-CIS-HEPTADECADIENE-4,6-DIYN-3-OL	Plant				--
0	1-2-9-10-DIEPOXY-3-OXO-HEPTADECA-4-6-DIYNE	Root		1.7		--
0	1-HEPTADECAENE-4,6-DIYN-3,8,10-TRIOL	Plant				--
0	1-HEPTADECAENE-4,6-DIYN-3,8-DIOL	Plant				--
0	1-HYDROXY-9-10-EPOXY-C-OXO-HEPTADECA-4-6-DIYNE	Root		7.1		--
0	1-OCTACOSANOL	Plant				--
0	2-PHENYL-DODECANE	Root Essent. Oil		41500.0		--
0	22-TRANS-DEHYDRO-24-METHYL-CHOLESTEROL	Seed Oil				--
0	24-ETHYL-22-TRANS-DEHYDRO-CHOLESTEROL	Seed Oil				--
0	24-ETHYL-24(25)-DEHYDRO-CHOLESTEROL	Seed Oil				--
0	24-ETHYL-CHOLESTEROL	Seed Oil				--
0	24-METHYL-CHOLESTEROL	Seed Oil				--
0	24-METHYLENE-24-DIHYDRO-LANOSTEROL	Seed Oil				--
5	24-METHYLENE-CYCLOARTANOL	Seed Oil				--
0	28-ISOFUCOSTEROL	Seed Oil				--
0	3-HYDROXY-5-METHYL-GAMMA-PYRONE	Plant				--
0	3-PHENYL-DODECANE	Root Essent. Oil		16700.0		--
0	3-PHENYL-UNDECANE	Root Essent. Oil		16700.0		--
0	4-PHENYL-DODECANE	Root Essent. Oil		15600.0		--
0	6(R),7(S)-EPOXY-TETRADECA-1,3-DIYNE	Root				--
0	6-7-EPOXY-TETRADECA-1-3-DIEN	Root		2.8		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	8-ACETOXY-9,10-EPOXYHEPTADEC-4,6-DIYN-1-EN-3-OL	Root		2.2		--
0	9,10-EPOXY-3-HYDROXYHEPTADEC-1-EN-4,6-DIYNE	Plant				--
16	ACETIC-ACID	Plant		126.0	1.414181220491693	--
0	ACETYL-PANAXYDOL	Root		2.8	0.999999999999999	--
11	ADENINE	Plant				--
28	ADENOSINE	Plant				--
3	ALANINE	Plant	209.0	2250.0	-1.5644343500261684	--
0	ALLOISOLEUCINE	Plant				--
0	ALPHA-AMINO-BUTYRIC-ACID	Plant				--
0	ALPHA-CARYOPHYLLENE-ALCOHOL	Root Essent. Oil	1457.0	23135.0		--
3	ALPHA-CURCUMENE	Root Essent. Oil	1626.0	8677.0	-1.0	--
0	ALPHA-ELEMENE	Root Essent. Oil	3352.0	19550.0	1.0	--
0	ALPHA-FRUCTOSE	Root				--
0	ALPHA-GLUCOSE	Root				--
2	ALPHA-HUMULENE	Plant				--
0	ALPHA-MALTOSE	Root				--
0	ALPHA-MUUROLENE	Root Essent. Oil	2007.0	9855.0	1.0	--
0	ALPHA-NEOCLOVENE	Plant				--
0	ALPHA-PANASINSENE	Plant				--
0	ALPHA-PYRROLIDONE	Plant				--
3	ALPHA-SELINENE	Plant				--
5	ALUMINUM	Plant	24.0	285.0	-0.19024226653522344	--
0	AMINO-ACIDS	Flower				--
0	AMINO-ACIDS	Stem				--
0	AMINO-ACIDS	Seed				--
0	AMINO-ACIDS	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	AMINO-ACIDS	Root				--
1	AMYLASE	Plant				--
0	ARABINOFURANOSE	Plant				--
0	ARABINOSE	Plant				--
0	ARASAPONIN-A	Plant				--
0	ARASAPONIN-B	Plant				--
14	ARGININE	Plant	11530.0	17615.0	1.003029083943788	--
2	ARSENIC	Plant	0.25	0.44	-0.4279845874681766	--
112	ASCORBIC-ACID	Plant		39.0	-0.5845301492267876	--
2	ASPARAGINE	Plant				--
3	ASPARTIC-ACID	Plant	1265.0	4310.0	-1.3901518792841547	--
0	AVENASTEROL	Seed Oil				--
20	BENZOIC-ACID	Plant				--
0	BETA-AMINO-ISOBUTYRIC-ACID	Plant				--
0	BETA-AMINOBUTYRIC-ACID	Plant				--
9	BETA-AMYRIN	Seed Oil				--
6	BETA-BISABOLENE	Root Essent. Oil	6251.0	58670.0	1.706312778237975	--
0	BETA-CUBEBENE	Root Essent. Oil	997.0	13216.0	1.0	--
5	BETA-ELEMENE	Plant				--
0	BETA-FARNESENE	Root Essent. Oil		260500.0	1.0	--
0	BETA-FARNESENE	Plant				--
0	BETA-FRUCTOSE	Root				--
0	BETA-GLUCOSE	Root				--
0	BETA-GURJUNENE	Root Essent. Oil	4908.0	78900.0	1.0	--
0	BETA-HUMULENE	Plant				--
0	BETA-MAALIENE	Root Essent. Oil	4938.0	6134.0		--
0	BETA-MALTOSE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	BETA-N-OXALO-L-ALPHA-BETA-DIAMINOPROPIONIC-ACID	Root		200.0		--
0	BETA-NEOCLOVENE	Plant				--
0	BETA-PANASINSENE	Plant				--
2	BETA-SANTALENE	Plant				--
3	BETA-SELINENE	Plant				--
47	BETA-SITOSTEROL	Root				--
47	BETA-SITOSTEROL	Plant				--
0	BETA-SITOSTEROL-GLYCOSIDE	Plant				--
0	BICYCLOGERMACRENE	Plant				--
4	BIOTIN	Plant	1.0	9.0	1.0	--
4	BORON	Plant	24.0	96.0	0.13904887033764624	--
0	BUTYROSPERMOL	Seed Oil				--
28	CALCIUM	Plant	2340.0	10800.0	-0.29837191904081456	--
0	CALCIUM-POLYURONIDE	Plant				--
2	CAMPESTEROL	Plant				--
1	CAPROIC-ACID	Root Essent. Oil		28600.0		--
0	CARBOHYDRATES	Plant		700000.0	0.1777298959145264	--
31	CARYOPHYLLENE	Plant				--
31	CARYOPHYLLENE	Root Essent. Oil		8670.0	-1.0	--
1	CHOLESTEROL	Seed Oil				--
20	CHOLINE	Plant	1000.0	2000.0	-1.1769646985527404	--
18	CINNAMIC-ACID	Plant				--
0	CIS-BETA-FARNESENE	Root Essent. Oil	4961.0	5279.0		--
23	CITRIC-ACID	Plant		3000.0	-0.5186178992564134	--
2	COBALT	Plant	0.06	0.44	-0.46303973466040793	--
0	COLONIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
12	COPPER	Plant	6.0	13.0	-0.11258700446602109	--
7	CYCLOARTENOL	Seed Oil				--
0	CYSTEIC-ACID	Plant				--
13	CYSTEINE	Plant		200.0		--
2	CYSTINE	Plant		108.0	-1.1190679849671816	--
0	D-FRUCTOSE	Plant	4160.0	5000.0		--
1	D-GLUCOSE	Plant	5340.0	15000.0		--
0	D-SUCROSE	Root				--
0	D-XYLOSE	Plant				--
0	DAUCOSTERIN	Plant		300.0		--
0	DAUCOSTERINE	Plant		35.0		--
1	DEXTROSE	Plant				--
0	DIASTASE	Plant				--
0	DIBUTYL-PHTHALATE	Root Essent. Oil	9860.0	29274.0		--
0	ECHINOCYSTIC-ACID	Plant				--
2	ELEMOL	Root Essent. Oil	2959.0	14637.0		--
0	EO	Root				--
40	ESCIN	Plant				--
3	ESTRADIOL	Plant				--
0	ESTROL	Plant				--
8	ESTRONE	Plant				--
0	ETHYL-MACHAERINATE	Plant				--
0	FALCALINOL	Root		558.3		--
0	FAT	Plant		10000.0	-0.6093148838235234	--
61	FERULIC-ACID	Plant				--
15	FIBER	Plant	59000.0	245000.0	0.16408539512716985	--
15	FOLACIN	Plant	0.0	68.0	1.6046860210830616	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
23	FOLIC-ACID	Plant	0.0	68.0	1.386195235089137	--
13	FORMIC-ACID	Plant				--
8	FRUCTOSE	Tissue Culture				--
8	FRUCTOSE	Root		3400.0	-0.5216566939988194	--
7	FUMARIC-ACID	Plant				--
1	GALACTOSE	Plant				--
1	GALACTOSE	Root				--
0	GALACTURONIC-ACID	Plant				--
0	GAMMA-SELINENE	Plant				--
2	GERMACRENE-D	Plant				--
0	GERMANIUM	Plant				--
0	GINSENG-TRISACCHARIDE	Plant		35.0		--
2	GINSENI	Plant				--
0	GINSENOSE-A-1	Root				--
0	GINSENOSE-A-1	Shoot		800.0		--
0	GINSENOSE-F-11	Leaf				--
0	GINSENOSE-F2	Shoot				--
0	GINSENOSE-F2	Root		180.0		--
0	GINSENOSE-FRC	Root				--
4	GINSENOSE-R-O	Root	700.0	1000.0	-1.0	--
4	GINSENOSE-R-O	Plant				--
4	GINSENOSE-R-O	Rhizome				--
4	GINSENOSE-R-O	Leaf				--
4	GINSENOSE-R-O	Tissue Culture				--
0	GINSENOSE-RA	Leaf				--
0	GINSENOSE-RA-Q	Plant		52.0		--
1	GINSENOSE-RB	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
14	GINSENOSIDE-RB-1	Tissue Culture				--
14	GINSENOSIDE-RB-1	Leaf	1300.0	2900.0	-1.0	--
14	GINSENOSIDE-RB-1	Rhizome				--
14	GINSENOSIDE-RB-1	Root	270.0	20900.0	-1.0	--
14	GINSENOSIDE-RB-1	Plant		1480.0		--
8	GINSENOSIDE-RB-2	Leaf	4200.0	9300.0	-1.0	--
8	GINSENOSIDE-RB-2	Tissue Culture				--
8	GINSENOSIDE-RB-2	Rhizome				--
8	GINSENOSIDE-RB-2	Root	200.0	1000.0	-1.0	--
8	GINSENOSIDE-RB-2	Shoot		1050.0	-1.0	--
8	GINSENOSIDE-RB-2	Plant		43.0		--
2	GINSENOSIDE-RB-3	Leaf				--
2	GINSENOSIDE-RB-3	Root		300.0	1.0	--
2	GINSENOSIDE-RB-3	Shoot		1000.0		--
6	GINSENOSIDE-RC	Leaf	2200.0	3900.0	-1.0	--
6	GINSENOSIDE-RC	Tissue Culture				--
6	GINSENOSIDE-RC	Rhizome				--
6	GINSENOSIDE-RC	Root	630.0	3100.0	-1.0	--
6	GINSENOSIDE-RC	Plant				--
3	GINSENOSIDE-RD	Tissue Culture				--
3	GINSENOSIDE-RD	Shoot		1600.0	-1.0	--
3	GINSENOSIDE-RD	Rhizome				--
3	GINSENOSIDE-RD	Root	950.0	7700.0	-1.0	--
3	GINSENOSIDE-RD	Plant		15.0		--
3	GINSENOSIDE-RD	Leaf	10000.0	22900.0	-1.0	--
0	GINSENOSIDE-RD-1	Root	3400.0	3700.0		--
5	GINSENOSIDE-RE	Leaf	12600.0	17800.0	-1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
5	GINSENOSIDE-RE	Plant		1450.0		--
5	GINSENOSIDE-RE	Tissue Culture				--
5	GINSENOSIDE-RE	Shoot		200.0	-1.0	--
5	GINSENOSIDE-RE	Root	200.0	13800.0	-1.0	--
0	GINSENOSIDE-RE-2	Leaf				--
0	GINSENOSIDE-RE-2	Root				--
0	GINSENOSIDE-RE-3	Leaf				--
0	GINSENOSIDE-RE-3	Root				--
4	GINSENOSIDE-RF	Root				--
4	GINSENOSIDE-RF	Leaf				--
4	GINSENOSIDE-RF	Tissue Culture				--
4	GINSENOSIDE-RF	Plant		25.0		--
1	GINSENOSIDE-RG	Plant				--
1	GINSENOSIDE-RG	Root				--
13	GINSENOSIDE-RG-1	Plant		48.0		--
13	GINSENOSIDE-RG-1	Leaf	2200.0	3500.0	-1.0	--
13	GINSENOSIDE-RG-1	Shoot	820.0	1000.0	-1.0	--
13	GINSENOSIDE-RG-1	Rhizome				--
13	GINSENOSIDE-RG-1	Tissue Culture				--
13	GINSENOSIDE-RG-1	Root	300.0	8600.0	-1.0	--
3	GINSENOSIDE-RG-2	Plant		50.0		--
3	GINSENOSIDE-RG-2	Root		80.0	-1.0	--
3	GINSENOSIDE-RG-2	Leaf				--
2	GINSENOSIDE-RG-3	Root				--
2	GINSENOSIDE-RG-3	Plant		32.0		--
0	GINSENOSIDE-RH-2	Shoot				--
0	GINSENOSIDE-RH-2	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	GINSENOSIDE-RH-2	Rhizome		18600.0		--
2	GINSENOSIDE-RH1	Plant		20.0		--
2	GINSENOSIDE-RH1	Rhizome		9800.0		--
2	GINSENOSIDE-RH1	Root				--
2	GINSENOSIDE-RH1	Shoot				--
0	GINSENOSIDE-RQ	Plant		25.0		--
18	GINSENOSIDES	Root	24400.0	38800.0	-0.5241846473045308	--
18	GINSENOSIDES	Plant				--
18	GINSENOSIDES	Leaf	41400.0	55800.0		--
0	GINSENOYNE-G	Root		5.7	0.9999999999999999	--
7	GLUCOSE	Root		3200.0	-0.9073364542217909	--
4	GLUCURONIC-ACID	Plant				--
0	GLUCURONOLACTONE	Plant				--
8	GLUTAMIC-ACID	Plant	396.0	4450.0	-1.3461930909311184	--
0	GLUTAMOSE	Plant				--
0	GLUTARIC-ACID	Plant				--
12	GLYCINE	Plant	23.0	1540.0	-0.6509937966580142	--
3	GUAIOL	Root Essent. Oil	4649.0	11276.0		--
6	GUANIDINE	Plant				--
1	GUANINE	Plant				--
0	GYPENOSIDE-F-11	Root				--
0	GYPENOSIDE-XVII	Root		300.0		--
0	HEPTADECA-1-8-DIENE-4-6-DIYNE-3-10-DIOL	Root		15.0	0.9999999999999978	--
0	HEPTADECA-1-EN-4,6-DIYN-3,9-DIOL	Plant				--
7	HISTIDINE	Plant	320.0	1100.0	-1.2977122612239684	--
0	HYDROXYCHOLINE	Plant		1.0		--
1	HYDROXYPROLINE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
12	IODINE	Plant				--
6	IRON	Plant	49.0	407.0	-0.25900516788108274	--
2	ISOBUTYRIC-ACID	Plant		15.0		--
3	ISOLEUCINE	Plant	151.0	370.0	-1.3559851947971977	--
5	ISOVALERIC-ACID	Plant		7.0	-1.0	--
75	KAEMPFEROL	Plant				--
0	KAEMPFEROL-3- GLUCOGALACTOSIDE	Plant				--
0	KETOGLUTARIC-ACID	Plant		5500.0		--
0	L-RHAMNOSE	Plant				--
0	LEDOL	Root Essent. Oil	6831.0	7680.0		--
2	LEUCINE	Plant	420.0	1530.0	-1.2675450754216828	--
1	LEVULOSE	Plant				--
27	LINOLEIC-ACID	Plant				--
0	LINOLENIC-ACID	Plant				--
21	LUPEOL	Seed Oil				--
4	LYSINE	Plant	2080.0	2100.0	-0.994569738261644	--
65	MAGNESIUM	Plant	980.0	2200.0	-0.5793608934861032	--
0	MALEIC-ACID	Plant				--
15	MALIC-ACID	Plant				--
1	MALONIC-ACID	Plant				--
0	MALONYL-GINSENOSE- RB-1	Rhizome				--
0	MALONYL-GINSENOSE- RB-1	Root				--
0	MALONYL-GINSENOSE- RB-2	Rhizome				--
0	MALONYL-GINSENOSE- RB-2	Root				--
0	MALONYL-GINSENOSE- RC	Rhizome				--
0	MALONYL-GINSENOSE- RC	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	MALONYL-GINSENOSE- RD	Root				--
0	MALONYL-GINSENOSE- RD	Rhizome				--
11	MALTOL	Plant				--
2	MALTOSE	Root		3800.0	-1.0	--
2	MALTOSE	Plant				--
14	MANGANESE	Plant	19.0	156.0	0.4231761021050064	--
15	METHIONINE	Plant	34.0	340.0	-0.8464519406388384	--
0	METHYL-BUTYRIC-ACID	Plant				--
2	MOLYBDENUM	Plant	10.0	14.0	1.719900856164318	--
0	MORETENOL	Seed Oil				--
6	MYRISTIC-ACID	Root				--
1	N-BUTYRIC-ACID	Plant		1.0		--
0	N-CAPROIC-ACID	Plant		6.0		--
0	N-HEXADECANE	Root Essent. Oil		88900.0		--
0	N-VALERIC-ACID	Plant				--
39	NIACIN	Plant	47.0	60.0	-0.23425190792611786	--
11	NICOTINIC-ACID	Plant	14.0	16.0	-0.6618011950864978	--
0	NITROGEN	Plant	15000.0	20000.0	0.027319474332790486	--
2	NONACOSANE	Plant				--
0	NONADECADIENOIC-ACID- METHYL-ESTER	Root Essent. Oil	27682.0	37935.0		--
0	O- MONOMETHYLAMINO BENZ OIC-ACID	Plant				--
0	OCTADECADIENOIC-ACID- METHYL-ESTER	Root Essent. Oil	13701.0	56439.0		--
64	OLEANOLIC-ACID	Root	600.0	980.0	1.5393329014356174	--
64	OLEANOLIC-ACID	Plant		20.0	-1.1996319701805378	--
18	OLEIC-ACID	Root				--
18	OLEIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
1	P-HYDROXYCINNAMIC-ACID	Plant		28.0	1.0000000000000002	--
13	PALMITIC-ACID	Plant		30.0	-1.0441687446910903	--
13	PALMITIC-ACID	Root Essent. Oil	6543.0	41917.0	-1.1452861672753163	--
13	PALMITIC-ACID	Root				--
1	PALMITIC-ACID-ETHYL-ESTER	Root Essent. Oil	35913.0	73504.0		--
0	PALMITIC-ACID-METHYL-ESTER	Root Essent. Oil	16744.0	63486.0		--
3	PANACEN	Plant				--
0	PANAQUILIN-E-1	Root				--
0	PANAQUILIN-G-2	Root				--
0	PANAQUILON	Plant				--
0	PANASENOSIDE	Shoot				--
0	PANAX-ACID	Plant				--
0	PANAX-POLYACETYLENE-PQ-1	Root		75.8		--
0	PANAX-POLYACETYLENE-PQ-2	Root		6.6		--
0	PANAX-POLYACETYLENE-PQ-3	Root		29.1		--
0	PANAX-PROTEIN	Root				--
0	PANAX-PROTEIN	Leaf				--
0	PANAXADIOL	Plant	6500.0	8960.0		--
0	PANAXADIOL	Shoot				--
0	PANAXADIOL	Root	3100.0	9600.0	1.0	--
1	PANAXAN-A	Root				--
1	PANAXAN-B	Root				--
1	PANAXAN-C	Root				--
1	PANAXAN-D	Root				--
1	PANAXAN-E	Root				--
0	PANAXASAPOGENIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	PANAXASAPOGENOL	Plant				--
0	PANAXATRIOL	Shoot				--
0	PANAXATRIOL	Root	1500.0	12540.0	1.0	--
0	PANAXATRIOL	Plant	7390.0	12450.0		--
4	PANAXIC-ACID	Plant				--
5	PANAXIN	Plant				--
0	PANAXOSIDE-A	Plant				--
0	PANAXOSIDE-B	Plant				--
0	PANAXOSIDE-C	Plant				--
0	PANAXOSIDE-D	Plant				--
0	PANAXOSIDE-E	Plant				--
0	PANAXOSIDE-F	Plant				--
0	PANAXYDIOL	Plant				--
1	PANAXYDOL	Root		950.0	1.0	--
3	PANAXYNOL	Plant				--
1	PANAXYTRIOL	Root		59.1	-0.9999999999999999	--
11	PANTOTHENIC-ACID	Plant	7.0	10.0	-1.1594401320923207	--
24	PECTIN	Plant				--
0	PELARGONIDIN-3-MONOGLUCOSIDE	Fruit Epidermis				--
0	PETROSELAIDIC-ACID	Plant				--
0	PETROSELINIC-ACID	Plant				--
0	PHENOLASE	Plant				--
7	PHENYLALANINE	Plant				--
4	PHOSPHORUS	Plant	2700.0	5200.0	0.7743102067399853	--
14	POTASSIUM	Plant	6600.0	33800.0	0.8370626901796255	--
0	PROLINE	Plant	175.0	1120.0	-0.9274280071141	--
6	PROPIONIC-ACID	Plant		4.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
2	PROTISOL	Plant				--
0	PROTEIN	Root	80600.0	102500.0	-0.17869720649227266	--
0	PROTEIN	Plant		122000.0	-0.421755206107789	--
0	PROTOPANAXADION	Plant				--
0	PROTOPANAXATRIOL	Plant				--
0	PSEUDO-GINSENOSE-F-11	Shoot				--
0	PSEUDO-GINSENOSE-F-11	Root	70.0	400.0		--
28	PULEGONE	Root Essent. Oil		260500.0		--
1	PYRUVIC-ACID	Plant		7000.0		--
1	QUINQUEFOLAN-A	Root				--
1	QUINQUEFOLAN-B	Root				--
1	QUINQUEFOLAN-C	Root				--
0	QUINQUENOSIDE-R-1	Root		100.0	1.0	--
1	RAFFINOSE	Plant				--
0	RESIN	Plant				--
15	RIBOFLAVIN	Plant	0.0	1.0	-0.7255538374993776	--
0	SACCHAROSE	Plant				--
7	SAIKOSAPONIN-A	Plant				--
0	SAIKOSAPONIN-B	Plant				--
34	SALICYLIC-ACID	Plant				--
0	SAPONIN	Plant	7500.0	10000.0	-0.8100884237312033	--
5	SAPONINS	Root				--
5	SAPONINS	Leaf				--
5	SAPONINS	Flower				--
1	SERINE	Plant	289.0	1240.0	-1.3409887493313337	--
4	SILICON	Plant				--
1	SODIUM	Plant	500.0	4800.0	-0.038367843686175344	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
10	SQUALENE	Seed Oil				--
0	SQUALENE-2-3-OXIDE	Seed Oil				--
5	STARCH	Plant	80000.0	320000.0	0.9009192002645995	--
8	STEARIC-ACID	Plant				--
12	STIGMASTEROL	Root				--
12	STIGMASTEROL	Plant		500.0	1.5758984909207412	--
0	STRONTIUM	Plant				--
7	SUCCINIC-ACID	Plant		40000.0	1.0	--
14	SUCROSE	Root	39000.0	158600.0	0.35021909440780613	--
14	SUCROSE	Plant		420.0		--
14	SULFUR	Plant		1500.0	-1.0029568742069708	--
5	SUPEROXIDE-DISMUTASE	Root				--
35	TANNIN	Plant				--
6	TARTARIC-ACID	Plant				--
0	TENUIFOLIC-ACID	Plant				--
4	THREONINE	Plant	584.0	1070.0	-1.2992802612381582	--
1	TIGLIC-ACID	Plant				--
2	TRANS-BETA-FARNESENE	Root Essent. Oil	9768.0	63517.0	0.4353826614163918	--
8	TYROSINE	Plant				--
0	URACIL	Plant				--
0	URIDINE	Plant				--
0	URONIC-ACID	Plant				--
3	VALINE	Plant		82.0	-1.398364895247216	--
16	VANADIUM	Plant		0.02	-0.9999999999999999	--
24	VANILLIC-ACID	Plant		33.0	-0.751444222737324	--
0	VIT-B12	Plant	0.4	0.6		--
3	XYLOSE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
77	ZINC	Plant	10.0	114.0	0.6100835562215182	--