

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Solanum tuberosum

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	(25S)-BAROGENIN	Tuber		9.5		--
0	1,4-DIMETHYLNAPHTHALENE	Plant				--
0	1,6-DIMETHYLNAPHTHALENE	Plant				--
0	11-HYDROXY-11-METHYL-ETHYL-6,10-DIMETHYL-SPIRO-(4,5)-DEC-6-EN-8-ONE	Tuber		81.0		--
0	16-HYDROXY-HEXADECANOIC-ACID	Leaf				--
0	18-HYDROXY-OCTADECANOIC-ACID	Leaf				--
0	18-HYDROXY-OCTADECENOIC-ACID	Leaf				--
0	2'-CHLORO-DIAZEPAM	Tuber				--
0	2'-CHLORO-N-DEMETHYL-DIAZEPAM	Tuber				--
0	2-(1',2'DIHYDROXY-1'-METHYL-ETHYL)-6,10-DIMETHYL-9-HYDROXY-SPIRO-(4,5)-DEC-6-EN-8-ONE	Tuber				--
0	2-(12-O-BETA-D-GLUCOSYL-11-HYDROXY-11-METHYL-ETHYL)-6,10-DIMETHYL-SPIRO-4,5)-DEC-6-EN-8-ONE	Tuber		262.0		--
0	2-ALPHA-ETHOXY-DIHYDRO-PHYTUBERIN	Tuber				--
0	2-BETA-ETHOXY-DIHYDRO-PHYTUBERIN	Tuber				--
0	2-PENTYL-FURAN	Plant				--
0	22-HYDROXY-DOCOSANOIC-ACID	Leaf				--
0	24-HYDROXY-TETRACOSANOIC-ACID	Leaf				--
0	24-METHYLENE-CYCLOARTENOL	Fruit				--
0	24-METHYLENE-LOPHENOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	26-HYDROXY-HEXACOSANOIC-ACID	Leaf				--
0	28-HYDROXY-OCTACOSANOIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	3,4-DICAFFEOYL-QUINIC-ACID	Tuber		3.0		--
3	3,5-DI-O-CAFFEOYLQUINIC-ACID	Tuber				--
3	3,5-DICAFFEOYL-QUINIC-ACID	Tuber				--
0	3-HYDROXY-2'CHLORO-N-DEMETHYL-DIAZEPAM	Tuber				--
0	4-ALPHA,14-ALPHA-DIMETHYLCHOLESTA-8,24-DIEN-3-BETA-OL	Plant				--
0	5-ALPHA-CHOLESTANE	Tuber				--
15	5-HYDROXYTRYPTAMINE	Leaf		2.0		--
15	5-HYDROXYTRYPTAMINE	Fruit		7.5		--
0	6,10-DIMETHYL-SPIRO-(4,5)-DEC-6-EN-2,8-DIONE	Tuber				--
0	6-(3-METHYL-2-BUTANYLAMINO)PURINE-9-BETA-D-RIBOFURANOSIDE	Tuber				--
0	6-(3-METHYL-2-BUTENYLAMINO)PURINE	Tuber				--
0	6-10-DIMETHYL-SPIRO-(4-5)-DEC-6-ENE-2-8-DIONE	Tuber				--
0	9,10,18-TRIHYDROXY-OCTADECANOIC-ACID	Leaf				--
0	9,10,18-TRIHYDROXY-OCTADECENOIC-ACID	Leaf				--
0	9-DIHYDRO-OCTADECADIENOIC-ACID	Leaf				--
0	9-HYDROXYNONANOIC-ACID	Leaf				--
6	ACETALDEHYDE	Plant				--
3	ACETONE	Plant				--
19	ACETYL-CHOLINE	Plant				--
0	ACETYL-DEHYDRO-RISHITINOL	Tuber		40.0		--
1	ACONITIC-ACID	Plant				--
0	ACROLEIN	Essential Oil				--
11	ADENINE	Plant				--
0	ADP-GLUCOSE-STARCH-GLUCOSYL-TRANSFERASE	Tuber				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ALANINE	Tuber	1140.0	5700.0	0.16439508227667685	--
12	ALLANTOIN	Plant				--
0	ALLOCYANIDOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ALPHA-AMINO-BUTYRIC-ACID	Plant				--
0	ALPHA-AMYLASE	Plant				--
7	ALPHA-CAROTENE	Tuber				--
7	ALPHA-CHACONINE	Shoot				--
7	ALPHA-CHACONINE	Leaf				--
7	ALPHA-CHACONINE	Sprout Seedling				--
7	ALPHA-CHACONINE	Tuber	0.5	635.0		--
7	ALPHA-CHACONINE	Flower				--
0	ALPHA-GLUCOSIDASE	Tuber				--
0	ALPHA-KETO-GLUTARIC-ACID	Plant				--
0	ALPHA-SOLAMARINE	Plant				--
3	ALPHA-SOLANINE	Shoot				--
3	ALPHA-SOLANINE	Sprout Seedling		400.0		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
3	ALPHA-SOLANINE	Tuber	16900.0	125100.0		--
3	ALPHA-SOLANINE	Flower				--
3	ALPHA-SOLANINE	Leaf				--
32	ALPHA-TOCOPHEROL	Tuber	0.5	2.8		USDA's Ag Handbook 8 and sequelae)
5	ALUMINUM	Tuber	3.9	255.0		--
0	AMINO-ACIDS	Tissue Culture				--
0	ANHYDROGALACTURONIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ARABINOSE	Plant				--
0	ARABINOSYL-GLUCOSE	Plant				--
14	ARGININE	Tuber	950.0	6850.0	-0.8901819117276113	--
2	ARSENIC	Tuber	0.001	0.6	-0.1995283355639898	--
112	ASCORBIC-ACID	Tuber	170.0	990.0	1.4140741928771987	--
0	ASH	Tuber	8100.0	85000.0	0.5946498268084486	--
3	ASPARTIC-ACID	Tuber	4340.0	24050.0	-0.560972811859512	--
0	BARIUM	Tuber	0.078	60.0		--
1	BEHENIC-ACID	Leaf				--
0	BEHENYL-FERULATE	Tuber				--
0	BENZOTHIAZOL	Plant				--
2	BETA-2-CHACONINE	Flower				--
2	BETA-2-CHACONINE	Tuber				--
0	BETA-AMYLASE	Plant				--
0	BETA-ANHYDROROTUNDOL	Tuber				--
53	BETA-CAROTENE	Tuber		0.01	-0.7053368039142849	--
0	BETA-CAROTENE-5,6-MONOEPOXIDE	Plant				--
0	BETA-CHACONINE	Tuber				--
2	BETA-CRYPTOXANTHIN	Tuber				--
47	BETA-SITOSTEROL	Tuber	30.0	140.0		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
47	BETA-SITOSTEROL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
2	BETA-SOLAMARINE	Plant				--
4	BORON	Tuber	1.0	8.0		--
0	BROMINE	Tuber	0.2	30.0		ACTA AGRIC SCAND SUPPL 22: 1980

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	CADAVERINE	Plant				--
3	CADMIUM	Tuber	0.004	0.455		--
102	CAFFEIC-ACID	Flower				--
102	CAFFEIC-ACID	Root Bark				--
102	CAFFEIC-ACID	Tuber Epidermis				--
102	CAFFEIC-ACID	Tuber	18.0	1400.0	-1.0	--
28	CALCIUM	Tuber	34.0	2550.0	-0.3913732265154976	--
2	CAMPESTEROL	Plant				--
2	CAMPESTEROL	Tuber				Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
3	CAPRIC-ACID	Tuber	10.0	48.0		USDA's Ag Handbook 8 and sequelae)
1	CAPROIC-ACID	Tuber				--
1	CAPROIC-ACID	Leaf				--
0	CARBOHYDRATE	Tuber	171000.0	862000.0		--
0	CARBOHYDRATES	Tuber	171000.0	862000.0	0.5977302510042045	--
0	CAROTENOIDS	Tuber		3.0		--
0	CATECHOLASE	Plant				--
1	CELLULOSE	Plant				--
0	CHACONINE	Tissue Culture				--
0	CHACONINE	Sprout Seedling				--
7	CHLORINE	Tuber		16.0		--
77	CHLOROGENIC-ACID	Sprout Seedling				--
77	CHLOROGENIC-ACID	Leaf		2230.0	0.23157426667346181	--
77	CHLOROGENIC-ACID	Flower				--
77	CHLOROGENIC-ACID	Root		260.0	-1.3943277703321204	--
77	CHLOROGENIC-ACID	Root Bark				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	CHLOROGENIC-ACID	Tuber	22.0	3950.0		--
1	CHOLESTEROL	Plant				--
20	CHOLINE	Tuber	330.0	1000.0		--
24	CHROMIUM	Tuber	0.002	1.4		--
0	CIS-ANTHERAXANTHIN-5,6-MONOEPOXIDE	Plant				--
0	CIS-NEOXANTHIN	Plant				--
0	CIS-VIOLAXANTHIN	Plant				--
23	CITRIC-ACID	Tuber		2000.0		--
1	CITROSTADIENOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
2	COBALT	Tuber	0.002	0.3		--
12	COPPER	Tuber	0.48	14.0	0.30598824955260295	--
0	CROTONALDEHYDE	Plant				--
0	CRYPTOCHLOROGENIC-ACID	Tuber	0.0	675.0		--
2	CRYPTOXANTHIN	Plant				--
0	CRYPTOXANTHIN-5,6-DIEPOXIDE	Plant				--
0	CUSCOHYGRINE	Root				--
5	CYANIN	Flower				--
0	CYANOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
7	CYCLOARTENOL	Tuber				--
0	CYCLODEHYDROISOLUBIMIN	Tuber		0.7		--
0	CYCLOLAUDENOL	Fruit				--
3	CYNAROSIDE	Flower				--
2	CYSTINE	Tuber	230.0	1235.0	-0.6394703590655566	--
0	DEACETYL-PHYTUBERIN	Tuber		36.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DELPHINIDIN-3-RUTINOSIDE	Tuber				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	DELPHINIDIN-3-RUTINOSIDE	Plant				--
0	DELPHININ	Flower				--
3	DEMISSIDINE	Tuber				--
4	DEMISSINE	Tuber				--
0	DI-GALACTOSYL-GLYCEROL	Plant				--
14	DIAZEPAM	Tuber				--
0	DIHYDROXY-HEXADECANOIC-ACID	Leaf				--
2	DIMETHYL-SULFIDE	Plant				--
0	DOCOSAN-1-OL	Leaf				--
0	EICOSAN-1-OL	Leaf				--
0	EICOSANOIC-ACID	Leaf				--
0	EICOSYL-FERULATE	Tuber				--
1	ELEUTHEROSIDE-B-1	Tuber		19.0		--
0	EO	Plant		2.0	-0.7399765927195	--
0	EPIUBIMIN	Tuber				--
0	ETHANETHIOL	Plant				--
0	FAT	Tuber	1000.0	9000.0	-0.8595583143775491	--
61	FERULIC-ACID	Tuber	13.0	225.0		--
15	FIBER	Tuber	3000.0	27000.0	-0.8803901731861471	--
0	FLUROINE	Tuber	0.06	1.0		ACTA AGRIC SCAND SUPPL 22: 1980
15	FOLACIN	Tuber		0.074		--
23	FOLIC-ACID	Tuber		0.074		--
8	FRUCTOSE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	FUCOSE	Plant				--
7	FUMARIC-ACID	Tuber				--
0	FURFUROL	Plant				--
0	GALACTINOL	Plant				--
1	GALACTOSE	Plant				--
62	GALLIC-ACID	Root Bark				--
22	GAMMA-AMINOBUTYRIC-ACID	Plant				--
0	GAMMA-CHACONINE	Shoot				--
0	GAMMA-CHACONINE	Tuber				--
35	GERANIOL	Plant				--
0	GIBBERELLINS	Tuber				--
0	GLUCINOL	Tuber				--
7	GLUCOSE	Plant				--
0	GLUCOSYL-MYOINOSITOL	Plant				--
8	GLUTAMIC-ACID	Tuber	3470.0	24150.0	0.6715518059550106	--
5	GLUTAMINE	Plant				--
7	GLUTATHIONE	Plant				--
12	GLYCINE	Tuber	620.0	5700.0	0.24375389084035604	--
0	GLYOXALIC-ACID	Plant				--
0	HEMICELLULOSE	Plant				--
0	HEPTADECAN-1-OL	Leaf				--
1	HEPTADECANOIC-ACID	Leaf				--
0	HEPTADECENEDOIC-ACID	Leaf				--
0	HEXACOSAN-1-OL	Leaf				--
0	HEXACOSANOIC-ACID	Leaf				--
0	HEXACOSYL-FERULATE	Tuber				--
0	HEXADECAN-1-OL	Leaf				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEXADECANEDIOIC-ACID	Leaf				--
0	HEXADECANOIC-ACID	Leaf				--
0	HEXADECYL-FERULATE	Tuber				--
7	HISTIDINE	Tuber	450.0	2140.0	-0.765042939248558	USDA's Ag Handbook 8 and sequelae)
0	HYDROGEN-SULFIDE	Plant				--
0	HYDROXYMALONIC-ACID	Plant				--
0	HYPOXANTHINE	Plant				--
0	INVERTASE	Plant				--
12	IODINE	Plant		0.011	-0.44776424992776254	--
6	IRON	Tuber	5.0	128.0	-0.13499706509815143	--
1	ISOBUTYRALDEHYDE	Essential Oil				--
2	ISOCHLOROGENIC-ACID-B	Tuber		3.0		--
0	ISODITYROSINE	Tissue Culture				--
0	ISOFRAXIDIN-7-O-BETA-D-GLUCOSIDE	Tuber		19.0		--
3	ISOLEUCINE	Tuber	840.0	5700.0	0.09844453004596014	--
0	ISOLUBIMIN	Tuber				--
22	ISOQUERCITRIN	Plant				Stitt, Paul. Why George should eat broccoli.
1	ISOVALERALDEHYDE	Essential Oil				--
0	JASMONIC-ACID	Tuber				--
75	KAEMPFEROL	Flower				--
0	KAEMPFEROL-3-O-SOPHOROSIDE	Seed				--
0	KAEMPFEROL-3-DIGLUCOSIDE-7-RHAMNOSIDE	Plant				--
0	KAEMPFEROL-3-SOPHOROSIDE-RHAMNOSIDE	Seed				--
0	KAEMPFEROL-3-TRIGLUCOSIDE-7-RHAMNOSIDE	Plant				--
0	KILOCALORIES	Tuber	780.0	3755.0	0.3728656371005382	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	LACTIC-ACID	Plant				--
7	LAURIC-ACID	Tuber	30.0	143.0		--
0	LEAD	Tuber	0.01	4.2		--
0	LECITHINASE	Plant				--
0	LECTIN	Tuber				--
3	LEPTINE	Plant				--
2	LEUCINE	Tuber	1240.0	7100.0	-0.14550431015983326	--
0	LIGNOCERYL-FERULATE	Tuber				--
27	LINOLEIC-ACID	Tuber	320.0	1520.0	-1.0	--
0	LINOLENIC-ACID	Tuber	100.0	475.0		--
11	LITHIUM	Tuber	0.104	0.28		--
0	LORMETAZEPAM	Tuber				--
0	LUBIMIN	Tuber	1.0	41.0		--
0	LUBIMINOL	Tuber				--
15	LUTEIN	Plant				--
15	LUTEIN	Tuber		1.0		--
78	LUTEOLIN	Flower				--
0	LYCOPHENOL	Fruit				--
4	LYSINE	Tuber	1260.0	6800.0	-0.16101944225237538	--
65	MAGNESIUM	Tuber	190.0	4250.0	2.173991167891756	--
15	MALIC-ACID	Tuber		1120.0		--
0	MALTOTRIOSE	Plant				--
14	MANGANESE	Tuber	1.3	22.0	-0.4765138934461795	--
0	MANNINOTRIOSE	Plant				--
3	MANNOSE	Plant				--
0	MELIBIOSE	Plant				--
1	MERCURY	Tuber		0.05	1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	METHANETHIOL	Plant				--
15	METHIONINE	Tuber	310.0	1568.0	-0.1844753136354797	--
0	METHIONINE-SULFOXIDE	Plant				--
0	METHYL-ISOPROPYLKETONE	Plant				--
0	MEVALONIC-ACID	Tuber		0.5		--
2	MOLYBDENUM	Tuber	0.1	2.1		--
0	MONOHYDROXY-HEXADECANDIOIC-ACID	Leaf				--
0	MONOHYDROXY-PENTADECANEDIOIC-ACID	Leaf				--
3	MUCILAGE	Plant				--
13	MUFA	Tuber	20.0	95.0	-1.0	--
0	MYO-INOSITOL	Plant				--
34	MYRICETIN	Flower				--
6	MYRISTIC-ACID	Tuber	10.0	48.0		--
6	N-AMYL-ALCOHOL	Plant				--
1	N-BUTYRALDEHYDE	Essential Oil				--
0	N-DEMETHYL-DIAZEPAM	Tuber				--
0	N-HEPTANOL	Plant				--
0	N-HEXANAL	Plant				--
2	N-OCTANAL	Plant				--
0	N-PENTANAL	Plant				--
0	NEGRETINE	Plant				--
2	NEO-CHLOROGENIC-ACID	Tuber	0.0	1575.0		--
39	NIACIN	Tuber	148.0	74.0	1.123279938756559	USDA's Ag Handbook 8 and sequelae)
3	NICKEL	Tuber	0.02	2.6		--
21	NICOTINE	Tuber	4.8	15.0		--
21	NICOTINE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	NICOTINIC-ACID	Tuber				--
0	NITROGEN	Tuber	2200.0	17000.0		ACTA AGRIC SCAND SUPPL 22: 1980
0	NONACOSANOIC-ACID	Leaf				--
0	NONADECAN-1-OL	Leaf				--
0	NONANEDIOIC-ACID	Leaf				--
7	NORADRENALIN	Fruit				--
0	NOREPINEPHRINE	Tuber				--
0	O-ALPHA-D-GLUCOPYRANOSYL-(1-(4-O-ALPHA-D-GLUCOPYRANOSYL-(1-(4-O-ALPHA-D-GLUCOPYRANOSYL-1)(16)-4)-D-GLUCOPYRANOSE	Tuber				--
0	O-ALPHA-D-GLUCOPYRANOSYL-(1-(4-O-ALPHA-D-GLUCOPYRANOSYL...TU	Plant				--
0	OCTACOSAN-1-OL	Leaf				--
0	OCTACOSANOIC-ACID	Leaf				--
0	OCTACOSYL-FERULATE	Tuber				--
0	OCTADECADIENOIC-ACID	Leaf				--
0	OCTADECAN-1-OL	Leaf				--
0	OCTADECANOIC-ACID	Leaf				--
0	OCTADECENDIOIC-ACID	Leaf				--
0	OCTADECENOIC-ACID	Leaf				--
0	OCTADECYL-FERULATE	Tuber				--
0	OCTEN-1-OL	Plant				--
18	OLEIC-ACID	Tuber	10.0	48.0	-1.0	--
9	OXALIC-ACID	Tuber		150.0		--
0	OXYEPILUBIMIN	Tuber				--
0	OXYGLUTINOSONE	Tuber				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	OXYLUBIMIN	Tuber				--
25	P-COUMARIC-ACID	Tuber	4.0	250.0		--
0	P-COUMAROYL-GLUCOSE	Fruit				--
2	P-METHOXYCINNAMALDEHYDE	Tuber		600.0		Wolf, R.B. Effects Of p-Methoxycinnamaldehyde From Star Anise And Related Cinnamic Acid Derivatives On Velvetleaf Germination. Journal of Natural Products, 49(1): 156-158, 1986.
0	PAEONANIN	Plant				--
13	PALMITIC-ACID	Tuber	160.0	760.0	-1.0	--
2	PALMITOLEIC-ACID	Tuber	10.0	48.0		USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Tuber	3.0	18.0		USDA's Ag Handbook 8 and sequelae)
0	PATATIN	Tuber				--
24	PECTIN	Tuber	18000.0	33000.0		--
24	PECTIN	Leaf	21000.0	73000.0	1.3855153861295895	--
1	PENTADECANOIC-ACID	Leaf				--
0	PETANIN	Plant				--
0	PETANIN	Tuber				--
0	PETUNIDIN-3-RUTINOSIDE	Plant				--
0	PHELLOGENIC-ACID	Leaf				--
0	PHENOL-OXIDASE	Plant				--
2	PHENYL-ACETALDEHYDE	Plant				--
7	PHENYLALANINE	Tuber	920.0	5550.0	0.035011038100138385	--
0	PHOSPHOLIPASE	Plant				--
4	PHOSPHORUS	Tuber	320.0	4200.0	0.7953217499555455	--
0	PHOSPHORYLASE	Plant				--
5	PHYLLOQUINONE	Tuber		0.01	-0.9999999999999999	--
0	PHYTATE	Tuber	810.0	4010.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	PHYTIC-ACID	Plant				--
0	PHYTIN	Plant				--
2	PHYTOSTEROLS	Tuber	50.0	240.0		--
0	PHYTUBERIN	Tuber				--
0	PLANTEOSE	Plant				--
0	PLASTOCYANIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	POLYPHENOL-OXIDASE	Plant				--
14	POTASSIUM	Tuber	2470.0	30000.0	1.1438704080041355	--
0	POTATO-LECTIN	Tuber				--
0	POTATO-LECTIN-STA	Tuber				--
0	PROLINE	Tuber	740.0	6700.0	-0.13308264485534704	--
0	PROPANE-1-THIOL	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	PROPANE-2-THIOL	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	PROTEIN	Tuber	10000.0	127000.0	-0.1266696006851984	--
43	PROTocatechuic-ACID	Root Bark				--
4	PUFA	Tuber	430.0	2043.0	-1.0	USDA's Ag Handbook 8 and sequelae)
3	PYRIDINE	Plant				--
176	QUERCETIN	Flower				--
0	QUERCITIN-3-GLUCOSIDE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCITIN-3-GLUCOSYL-RHAMNOSIDE	Flower				--
0	QUERCITIN-3-RUTINOSIDE	Plant				--
1	QUINIC-ACID	Tuber				--
1	RAFFINOSE	Plant				--
0	RHAMNOSE	Plant				--
15	RIBOFLAVIN	Tuber	0.4	1.9	-0.8077806958015599	--
0	RIBOFURANOSYL-CIS-ZEATIN	Tuber				--
0	RIBOFURANOSYL-TRANS-ZEATIN	Tuber				--
0	RIBOSYL-GLUCOSE	Plant				--
0	RISBITIN	Plant				--
6	RISHITIN	Tuber	0.0	19.0		--
0	RISHITINOL	Tuber		9.0		--
0	RISHITINONE	Tuber		0.4		--
0	RUBIDIUM	Tuber	0.64	23.0		ACTA AGRIC SCAND SUPPL 22: 1980
87	RUTIN	Shoot				--
87	RUTIN	Flower				--
7	SALICYLATES	Tuber	0.0	10.0		--
44	SCOPOLETIN	Tuber Epidermis				--
3	SCOPOLIN	Tuber		98.0		--
60	SELENIUM	Tuber		0.01		--
1	SERINE	Tuber	90.0	5250.0	-0.20083549160250516	--
0	SESQUITERPENES	Tuber	5.0	104.0		--
0	SFA	Tuber	260.0	1235.0	-1.0	USDA's Ag Handbook 8 and sequelae)
4	SILICON	Tuber	1.0	10.0		ACTA AGRIC SCAND SUPPL 22: 1980
3	SILVER	Tuber	0.026	0.07		--
9	SINAPIC-ACID	Tuber		3.0		Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SODIUM	Tuber	2.6	323.0	-0.6263111247198467	--
0	SOLAMINE	Sprout Seedling				--
0	SOLANESOL	Leaf				--
5	SOLANIDINE	Stem				--
5	SOLANIDINE	Sprout Seedling		80.0		--
5	SOLANIDINE	Root		830.0		--
5	SOLANIDINE	Plant				--
5	SOLANIDINE	Tuber				--
0	SOLANIDINE-T	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
26	SOLANINE	Tissue Culture		600.0		--
26	SOLANINE	Leaf	6000.0	7000.0	1.0	--
26	SOLANINE	Fruit		10000.0	1.0	--
0	SOLANINES	Tuber	20.0	100.0		--
0	SOLANOLONE	Tuber		2.2		--
0	SOLANTHRENE	Tuber				--
0	SOLANUM-TUBEROSUM- LECTIN	Seed				--
0	SOLASODIENE	Tuber				--
18	SOLASODINE	Tuber				--
3	SOLAVETIVONE	Tuber	0.0	101.0		--
0	SPIROVETIVA- 1(10),11,DIEN-2-ONE	Tuber				--
0	SPIROVETIVA- 1(10),3,11,TRIEN-2-ONE	Tuber				--
1	STACHYOSE	Plant				--
5	STARCH	Tuber	150000.0	800000.0	1.411655513139338	--
8	STEARIC-ACID	Tuber	40.0	190.0	-1.0	--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	STIGMASTEROL	Tuber	10.0	45.0		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
12	STIGMASTEROL	Plant				--
0	STRONTIUM	Tuber	0.39	60.0		--
0	SUBERIN	Tuber				--
7	SUCCINIC-ACID	Plant				--
14	SULFUR	Tuber	16.0	1900.0		--
35	TANNIN	Leaf		32000.0	-0.9586958606939968	--
6	TARTARIC-ACID	Plant				--
0	TETRACOSAN-1-OL	Leaf				--
0	TETRACOSANEDIOIC-ACID	Leaf				--
0	TETRACOSANOIC-ACID	Leaf				--
0	TETRADECANOIC-ACID	Leaf				--
31	THIAMIN	Tuber	1.0	5.0	-0.49912520744578037	--
4	THREONINE	Tuber	750.0	4300.0	-0.35834239480644015	--
0	TITANIUM	Tuber	0.13	17.0		--
0	TOLATID-5-EN-3BETA-OL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
2	TOMATIDINE	Tuber				--
6	TOMATINE	Tuber				--
0	TRANS-N-FEROLOYL-PUTRESCINE	Tuber				--
0	TRANS-NONEN-2-OL	Plant				--
0	TRANS-OCTEN-2-AL	Plant				--
0	TRANS-OCTEN-2-OL	Plant				--
0	TRANS-ZEATIN	Tissue Culture				--
1	TRIACONTAN-1-OL	Leaf				--
0	TRIACONTANOIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRIGALACTOSYL-GLYCEROL	Plant				--
15	TRIGONELLINE	Plant				--
0	TRITRIACONTANONE	Plant				--
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	Tuber	320.0	2250.0	-0.584445589832056	--
0	TUBERONIC-ACID-5'-O-BETA-D-GLUCOSIDE	Leaf		0.027		--
0	TUBERONONE	Leaf		0.12		--
0	TUBEROSIDE-C	Seed				--
0	TUBEROSIDE-D	Seed				--
0	TUBEROSIDE-F	Seed				--
5	TUBEROSIN	Plant				--
11	TYRAMINE	Fruit				--
1	TYROSINASE	Plant				--
8	TYROSINE	Tuber	770.0	3900.0	-0.04040961385631203	--
22	UMBELLIFERONE	Tuber				--
3	VALINE	Tuber	117.0	6450.0	-0.1620557523637583	--
0	VIT-B-6	Tuber	2.5	12.5		--
24	VITAMIN-B-1	Tuber				--
0	VITAMIN-B-2	Tuber		0.3		--
0	VITAMIN-B-6	Tuber	2.5	12.5		USDA's Ag Handbook 8 and sequelae)
0	WATER	Tuber	700000.0	800000.0	0.14554781221579788	--
0	XYLOSYL-GLUCOSE	Plant				--
0	YAMOGENIN	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
5	ZEAXANTHIN	Tuber		0.04		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
77	ZINC	Tuber	1.9	44.1	0.8200602873994755	--
0	ZIRCONIUM	Plant	0.52	1.4	-1.3620618030076155	--