

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for GLYCINE

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cucurbita pepo	Seed	17960.0	39220.0	4.087033113761383	--
Foeniculum vulgare	Fruit	11070.0	12144.0	3.303370959829359	--
Lepidium meyenii	Root		6830.0	3.054585158741173	Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.
Cucurbita foetidissima	Seed	14735.0	27700.0	2.421441797944086	--
Ceratonia siliqua	Seed		24910.0	2.0180564011445847	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Corchorus olitorius	Leaf	2140.0	17420.0	1.8601048215209302	--
Allium schoenoprasum	Leaf	1390.0	17375.0	1.8481537597591051	USDA's Ag Handbook 8 and sequelae)
Cucurbita pepo	Fruit	270.0	8000.0	1.700314241568018	--
Spinacia oleracea	Plant	1340.0	15914.0	1.6896690344750718	USDA's Ag Handbook 8 and sequelae)
Psophocarpus tetragonolobus	Tuber	3900.0	9155.0	1.533447141764445	--
Amaranthus sp.	Leaf	1320.0	15880.0	1.45111293011625	--
Chenopodium album	Leaf	2490.0	15861.0	1.446066926261257	--
Nigella sativa	Seed	8840.0	20700.0	1.4093637414578815	--
Pisum sativum	Fruit	720.0	7122.0	1.360670467766508	--
Citrus sinensis	Fruit	50.0	7097.0	1.3509995174874219	--
Cucurbita spp	Fruit	440.0	6962.0	1.298776385980356	--
Sesamum indicum	Seed	5890.0	19918.0	1.2963001642904226	--
Phaseolus vulgaris	Sprout Seedling	1440.0	15484.0	1.261205834725475	USDA's Ag Handbook 8 and sequelae)
Phaseolus vulgaris	Fruit	650.0	6680.0	1.1896880668322627	USDA's Ag Handbook 8 and sequelae)
Arachis hypogaea	Seed	15760.0	18993.0	1.1625612782547456	--
Calathea allouia	Root	3920.0	4310.0	1.151546226752482	--
Raphanus sativus	Root	220.0	4265.0	1.1175633886812555	--
Acacia farnesiana	Leaf	2720.0	14590.0	1.1085158262772645	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Sechium edule	Fruit	450.0	6430.0	1.0929785640414	--
Glycine max	Seed	16870.0	18445.0	1.0833300246898254	USDA's Ag Handbook 8 and sequelae)
Nasturtium officinale	Herb	1120.0	22400.0	1.0	USDA's Ag Handbook 8 and sequelae)
Moringa oleifera	Shoot	5170.0	24225.0	1.0	USDA's Ag Handbook 8 and sequelae)
Nelumbo nucifera	Rhizome	1560.0	7464.0	1.0	--
Allium cepa	Bulb	490.0	5341.0	1.0	--
Capsicum frutescens	Fruit	740.0	6038.0	0.9413380636653274	USDA's Ag Handbook 8 and sequelae)
Lupinus albus	Seed	15390.0	17185.0	0.9011559745223087	--
Ipomoea aquatica	Leaf	990.0	13150.0	0.7260818498988622	--
Solanum melongena	Fruit	320.0	5452.0	0.7146509891235451	--
Juglans cinerea	Seed	15080.0	15601.0	0.6721371685974302	--
Helianthus annuus	Seed	14610.0	15400.0	0.6430760701183263	USDA's Ag Handbook 8 and sequelae)
Mucuna pruriens	Seed	7200.0	15265.0	0.6235574218860924	--
Citrus reticulata	Fruit	20.0	5158.0	0.6009206138414905	--
Pinus pinea	Seed	12230.0	15000.0	0.5852430383191146	--
Carum carvi	Seed	13220.0	14675.0	0.5382536999822551	Revised USDA data received 1993.
Trigonella foenum-graecum	Seed	10630.0	14366.0	0.4935776829173641	--
Opuntia ficus-indica	Seed		14200.0	0.4695769747206912	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Cucumis sativus	Fruit	190.0	4810.0	0.46630098595660957	--
Sinapis alba	Seed	13120.0	14038.0	0.4461545968420105	--
Abelmoschus esculentus	Fruit	440.0	4400.0	0.30769740137959467	USDA's Ag Handbook 8 and sequelae)
Prunus dulcis	Seed	12360.0	12929.0	0.285812516178696	USDA's Ag Handbook 8 and sequelae)
Solanum tuberosum	Tuber	620.0	5700.0	0.24375389084035604	--
Capsicum annuum	Fruit	310.0	4228.0	0.24116126345948113	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Juglans nigra	Seed	12030.0	12580.0	0.2353531959338838	USDA's Ag Handbook 8 and sequelae)
Brassica rapa	Root	250.0	3075.0	0.2189061152421515	--
Psophocarpus tetragonolobus	Seed	11400.0	12437.0	0.2146778870656656	--
Foeniculum vulgare	Seed	11070.0	12144.0	0.17231519127274303	USDA's Ag Handbook 8 and sequelae)
Vicia faba	Seed	2300.0	12100.0	0.16595355777482973	USDA's Ag Handbook 8 and sequelae)
Papaver somniferum	Seed	11230.0	12047.0	0.15829068106143418	--
Valerianella locusta	Leaf	790.0	10970.0	0.14711930232600304	--
Mentha spicata	Leaf	1580.0	10935.0	0.13782403206680577	USDA's Ag Handbook 8 and sequelae)
Cnidioscolus chayamansa	Leaf	2170.0	10850.0	0.11524980429446952	--
Pistacia vera	Seed	10950.0	11391.0	0.06344450891072696	--
Lablab purpureus	Seed	10280.0	11345.0	0.056793710253817624	--
Oenothera biennis	Seed	10500.0	11206.0	0.03669673170359155	--
Lycopersicon esculentum	Fruit	23.0	3637.0	0.012539998861881632	--
Asimina triloba	Fruit	389.0	3501.0	-0.040069970656347695	--
Ipomoea batatas	Root	580.0	2725.0	-0.045404847534055576	--
Artocarpus altilis	Seed	4650.0	10635.0	-0.045859921189783166	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. sabellica l.	Leaf	1590.0	10232.0	-0.04887811056792816	--
Brassica oleracea var. botrytis l.	Leaf	950.0	10203.0	-0.05657990592554876	--
Vigna radiata	Seed	9540.0	10489.0	-0.06696897779649544	USDA's Ag Handbook 8 and sequelae)
Lens culinaris	Sprout Seedling	3190.0	10635.0	-0.07650916912078726	USDA's Ag Handbook 8 and sequelae)
Phaseolus lunatus	Seed	2740.0	10090.0	-0.12465742701620912	USDA's Ag Handbook 8 and sequelae)
Brassica napus var. napobrassica	Root	270.0	2610.0	-0.1322498781605236	USDA's Ag Handbook 8 and sequelae)
Persea americana	Fruit	660.0	3226.0	-0.14645042372629669	--
Brassica oleracea var. viridis l.	Leaf	600.0	9834.0	-0.15457861237251436	--
Fagopyrum esculentum	Seed		9750.0	-0.17381550404553908	--
Basella alba	Leaf	670.0	9710.0	-0.187510427005099	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Colocasia esculenta	Root	740.0	2520.0	-0.20021555430297686	--
Phaseolus vulgaris	Seed	8430.0	9474.0	-0.21372029598699516	USDA's Ag Handbook 8 and sequelae)
Larrea tridentata	Plant		4200.0	-0.21783927246057364	--
Zingiber officinale	Root	430.0	2486.0	-0.22589147640123697	USDA's Ag Handbook 8 and sequelae)
Phoenix dactylifera	Fruit	40.0	3010.0	-0.2300074341376021	--
Dioscorea pentaphylla	Root	460.0	2480.0	-0.23042252147740053	--
Papaver bracteatum	Seed	7750.0	9350.0	-0.23164853584475079	--
Lactuca sativa	Leaf	570.0	9500.0	-0.24328204856028268	--
Daucus carota	Root	300.0	2455.0	-0.24930187596141531	--
Psidium guajava	Fruit	410.0	2952.0	-0.25244403878508226	USDA's Ag Handbook 8 and sequelae)
Prunus armeniaca	Fruit	400.0	2930.0	-0.26095447503067815	USDA's Ag Handbook 8 and sequelae)
Cicer arietinum	Seed	8030.0	9075.0	-0.2714087452067088	USDA's Ag Handbook 8 and sequelae)
Cichorium endivia	Leaf	580.0	9340.0	-0.2857747126023274	--
Cajanus cajan	Seed	6860.0	8970.0	-0.2865899160540019	--
Averrhoa carambola	Fruit	260.0	2860.0	-0.28803313581211976	USDA's Ag Handbook 8 and sequelae)
Fragaria spp	Fruit	240.0	2847.0	-0.2930620299572446	USDA's Ag Handbook 8 and sequelae)
Vigna angularis	Seed	7560.0	8734.0	-0.32071140481553684	--
Pisum sativum	Seed	1840.0	8704.0	-0.32504888220047773	--
Brassica chinensis	Leaf	430.0	9189.0	-0.3258771642920071	--
Brassica rapa	Leaf	430.0	9189.0	-0.3258771642920071	USDA's Ag Handbook 8 and sequelae)
Vigna unguiculata	Seed		8550.0	-0.3473145994431742	--
Vigna unguiculata	Seed		8550.0	-0.3473145994431742	--
Beta vulgaris	Root	290.0	2287.0	-0.3761711380939947	USDA's Ag Handbook 8 and sequelae)
Anacardium occidentale	Seed	8030.0	8169.0	-0.4024005622319234	--
Secale cereale	Seed	7010.0	7870.0	-0.4456307535018341	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Juglans regia	Seed	7550.0	7835.0	-0.45069114378426517	USDA's Ag Handbook 8 and sequelae)
Mentha x piperita	Leaf	1800.0	8430.0	-0.5274517393414566	USDA's Ag Handbook 8 and sequelae)
Manihot esculenta	Root	640.0	2030.0	-0.5702509021896668	--
Senna obtusifolia	Seed		6890.0	-0.5873216814099028	--
Rehmannia glutinosa	Root	1000.0	2000.0	-0.5929061275704846	--
Bertholletia excelsa	Seed	6570.0	6797.0	-0.6007678613032196	USDA's Ag Handbook 8 and sequelae)
Nelumbo nucifera	Seed	2210.0	6697.0	-0.6152261192530225	--
Prunus persica	Fruit	240.0	1944.0	-0.6423767540378408	--
Panax quinquefolius	Plant	23.0	1540.0	-0.6509937966580142	--
Mangifera indica	Fruit	210.0	1900.0	-0.6593976265290327	--
Ginkgo biloba	Seed	2320.0	6325.0	-0.6690108388262893	USDA's Ag Handbook 8 and sequelae)
Pinus edulis	Seed	5890.0	6260.0	-0.6784087064936613	USDA's Ag Handbook 8 and sequelae)
Vaccinium corymbosum	Fruit	280.0	1819.0	-0.6907315054332721	--
Sambucus canadensis	Fruit	360.0	1782.0	-0.7050445118463198	USDA's Ag Handbook 8 and sequelae)
Perideridia gairdneri	Root		1842.0	-0.712223647909458	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
Triticum aestivum	Seed	4830.0	5635.0	-0.7687728186799295	--
Carica papaya	Fruit	180.0	1611.0	-0.7711938117552699	USDA's Ag Handbook 8 and sequelae)
Psidium cattleianum	Fruit	290.0	1500.0	-0.814132830994413	--
Pachyrhizus erosus	Tuber	310.0	2855.0	-0.8182366442910574	--
Zea mays	Seed	1270.0	5283.0	-0.8196658866632359	USDA's Ag Handbook 8 and sequelae)
Malus domestica	Plant	80.0	497.0	-0.8208359653564842	--
Murraya sp	Fruit	450.0	1296.0	-0.893047785271757	--
Musa x paradisiaca	Fruit	450.0	1296.0	-0.893047785271757	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ananas comosus	Fruit	65.0	1259.0	-0.9073607916848047	--
Ficus carica	Fruit	250.0	1197.0	-0.9313447483769386	USDA's Ag Handbook 8 and sequelae)
Arctium lappa	Root	310.0	1550.0	-0.9327345082827507	USDA's Ag Handbook 8 and sequelae)
Ocimum basilicum	Leaf		6900.0	-0.9337878392435092	USDA's Ag Handbook 8 and sequelae)
Citrullus lanatus	Fruit		1178.0	-0.9386946705890442	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Helianthus tuberosus	Tuber		2478.0	-0.9589643883137438	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
Vitis vinifera	Fruit	200.0	1029.0	-0.9963335342523983	USDA's Ag Handbook 8 and sequelae)
Castanea dentata	Seed	2268.0	4038.0	-0.9996711981382823	--
Portulaca oleracea	Herb	460.0	11000.0	-1.0	--
Zingiber officinale	Rhizome	430.0	2486.0	-1.0	--
Asparagus officinalis	Shoot	990.0	12774.0	-1.0	--
Allium sativum var. sativum	Bulb	2000.0	4800.0	-1.0	--
Phyllanthus emblica	Fruit	198.0	980.0	-1.0152885967994074	--
Macadamia spp	Seed	3710.0	3815.0	-1.0319131133663428	USDA's Ag Handbook 8 and sequelae)
Psophocarpus tetragonolobus	Leaf	1490.0	6436.0	-1.0570165649654388	--
Prunus domestica	Fruit	120.0	811.0	-1.0806642206860306	USDA's Ag Handbook 8 and sequelae)
Castanea mollissima	Seed	1837.0	3271.0	-1.1105660366132708	--
Pyrus communis	Fruit	110.0	679.0	-1.1317268381596062	--
Cocos nucifera	Seed	1580.0	2980.0	-1.1526395672471974	USDA's Ag Handbook 8 and sequelae)
Vigna radiata	Sprout Seedling	930.0	6618.0	-1.1846966656046878	USDA's Ag Handbook 8 and sequelae)
Castanea sativa	Seed	1070.0	2353.0	-1.2432928445924616	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Psoralea esculenta	Root		1097.0	-1.2748284115330988	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
Avena sativa	Seed		2000.0	-1.294330495155266	Jim Duke's personal files.*
Aloe vera	Leaf		5030.0	-1.4304208502349065	--
Theobroma cacao	Seed		900.0	-1.4533713326030981	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Rosmarinus officinalis	Leaf	1590.0	4935.0	-1.4556508695098707	USDA's Ag Handbook 8 and sequelae)
Momordica charantia	Seed		38.2	-1.5779725996145	Jim Duke's personal files.
Linum usitatissimum	Seed		0.352	-1.5834447610833413	--
Brassica oleracea var. capitata l.	Leaf	270.0	3610.0	-1.8075432436080534	USDA's Ag Handbook 8 and sequelae)
Salvia officinalis	Plant				Stitt, Paul. Why George should eat broccoli.
Allium sativum var. sativum	Leaf				--
Silybum marianum	Seed				--
Cryptotaenia japonica	Root				--
Melia azedarach	Plant				--
Echinacea purpurea	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Lycium chinense	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Stachys officinalis	Shoot				--
Lentinus edodes	Fruit				--
Angelica sinensis	Root				Jim Duke's personal files.
Oryza sativa	Plant				--
Coriandrum sativum	Fruit				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Camellia sinensis	Leaf				--
Plantago ovata	Seed				--
Cocos nucifera	Endosperm				Jim Duke's personal files.
Cocos nucifera	Leaf				Jim Duke's personal files.
Alpinia galanga	Leaf				--
Prunus cerasus	Fruit				--
Crocus sativus	Bulb				--
Pinellia ternata	Tuber				--
Citrus paradisi	Fruit				--
Artemisia dracunculus	Root				--
Thymus vulgaris	Plant				Stitt, Paul. Why George should eat broccoli.
Opuntia ficus-indica	Bud		4745.0		Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Brassica oleracea var. botrytis l.	Flower	640.0	8270.0		--
Artemisia dracunculus	Shoot				--
Borago officinalis	Leaf				Jim Duke's personal files.
Scutellaria baicalensis	Root				--
Zingiber officinale	Shoot				--
Zingiber officinale	Tuber				--
Centella asiatica	Plant				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Achillea millefolium	Plant				Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in Achillea millefolium L. (Asteraceae). Economic Botany 48(2): 111-120, 1994.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Urtica dioica	Leaf				Jim Duke's personal files.
Canavalia ensiformis	Seed				--
Artemisia dracunculus	Leaf				--
Panax ginseng	Root				--
Panax ginseng	Leaf				--
Harpagophytum procumbens	Root				--
Apium graveolens	Pt	210.0	4290.0		USDA's Ag Handbook 8 and sequelae)
Tilia sp.	Fruit				--