

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	--
Glycine max	Seed	16870.0	18445.0	1.0833300246898254	USDA's Ag Handbook 8 and sequelae)
Arachis hypogaea	Seed	15760.0	18993.0	1.1625612782547456	--
Lupinus albus	Seed	15390.0	17185.0	0.9011559745223087	--
Juglans cinerea	Seed	15080.0	15601.0	0.6721371685974302	--
Cucurbita foetidissima	Seed	14735.0	27700.0	2.421441797944086	--
Helianthus annuus	Seed	14610.0	15400.0	0.6430760701183263	USDA's Ag Handbook 8 and sequelae)
Carum carvi	Seed	13220.0	14675.0	0.5382536999822551	Revised USDA data received 1993.
Sinapis alba	Seed	13120.0	14038.0	0.4461545968420105	--
Prunus dulcis	Seed	12360.0	12929.0	0.285812516178696	USDA's Ag Handbook 8 and sequelae)
Pinus pinea	Seed	12230.0	15000.0	0.5852430383191146	--
Juglans nigra	Seed	12030.0	12580.0	0.2353531959338838	USDA's Ag Handbook 8 and sequelae)
Psophocarpus tetragonolobus	Seed	11400.0	12437.0	0.2146778870656656	--
Papaver somniferum	Seed	11230.0	12047.0	0.15829068106143418	--
Foeniculum vulgare	Fruit	11070.0	12144.0	3.303370959829359	--
Foeniculum vulgare	Seed	11070.0	12144.0	0.17231519127274303	USDA's Ag Handbook 8 and sequelae)
Pistacia vera	Seed	10950.0	11391.0	0.06344450891072696	--
Trigonella foenum-graecum	Seed	10630.0	14366.0	0.4935776829173641	--
Oenothera biennis	Seed	10500.0	11206.0	0.03669673170359155	--
Lablab purpureus	Seed	10280.0	11345.0	0.056793710253817624	--
Vigna radiata	Seed	9540.0	10489.0	-0.06696897779649544	USDA's Ag Handbook 8 and sequelae)
Nigella sativa	Seed	8840.0	20700.0	1.4093637414578815	--
Phaseolus vulgaris	Seed	8430.0	9474.0	-0.21372029598699516	USDA's Ag Handbook 8 and sequelae)
Anacardium occidentale	Seed	8030.0	8169.0	-0.4024005622319234	--
Cicer arietinum	Seed	8030.0	9075.0	-0.2714087452067088	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Papaver bracteatum	Seed	7750.0	9350.0	-0.23164853584475079	--
Vigna angularis	Seed	7560.0	8734.0	-0.32071140481553684	--
Juglans regia	Seed	7550.0	7835.0	-0.45069114378426517	USDA's Ag Handbook 8 and sequelae)
Mucuna pruriens	Seed	7200.0	15265.0	0.6235574218860924	--
Secale cereale	Seed	7010.0	7870.0	-0.4456307535018341	USDA's Ag Handbook 8 and sequelae)
Cajanus cajan	Seed	6860.0	8970.0	-0.2865899160540019	--
Bertholletia excelsa	Seed	6570.0	6797.0	-0.6007678613032196	USDA's Ag Handbook 8 and sequelae)
Sesamum indicum	Seed	5890.0	19918.0	1.2963001642904226	--
Pinus edulis	Seed	5890.0	6260.0	-0.6784087064936613	USDA's Ag Handbook 8 and sequelae)
Moringa oleifera	Shoot	5170.0	24225.0	1.0	USDA's Ag Handbook 8 and sequelae)
Triticum aestivum	Seed	4830.0	5635.0	-0.7687728186799295	--
Artocarpus altilis	Seed	4650.0	10635.0	-0.045859921189783166	USDA's Ag Handbook 8 and sequelae)
Calathea allouia	Root	3920.0	4310.0	1.151546226752482	--
Psophocarpus tetragonolobus	Tuber	3900.0	9155.0	1.533447141764445	--
Macadamia spp	Seed	3710.0	3815.0	-1.0319131133663428	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)
Acacia farnesiana	Leaf	2720.0	14590.0	1.1085158262772645	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Chenopodium album	Leaf	2490.0	15861.0	1.446066926261257	--
Ginkgo biloba	Seed	2320.0	6325.0	-0.6690108388262893	USDA's Ag Handbook 8 and sequelae)
Vicia faba	Seed	2300.0	12100.0	0.16595355777482973	USDA's Ag Handbook 8 and sequelae)
Castanea dentata	Seed	2268.0	4038.0	-0.9996711981382823	--
Nelumbo nucifera	Seed	2210.0	6697.0	-0.6152261192530225	--
Cnidioscolus chayamansa	Leaf	2170.0	10850.0	0.11524980429446952	--
Corchorus olitorius	Leaf	2140.0	17420.0	1.8601048215209302	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Allium sativum var. sativum	Bulb	2000.0	4800.0	-1.0	--
Pisum sativum	Seed	1840.0	8704.0	-0.32504888220047773	--
Castanea mollissima	Seed	1837.0	3271.0	-1.1105660366132708	--
Mentha x piperita	Leaf	1800.0	8430.0	-0.5274517393414566	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. sabellica l.	Leaf	1590.0	10232.0	-0.04887811056792816	--
Rosmarinus officinalis	Leaf	1590.0	4935.0	-1.4556508695098707	USDA's Ag Handbook 8 and sequelae)
Cocos nucifera	Seed	1580.0	2980.0	-1.1526395672471974	USDA's Ag Handbook 8 and sequelae)
Mentha spicata	Leaf	1580.0	10935.0	0.13782403206680577	USDA's Ag Handbook 8 and sequelae)
Nelumbo nucifera	Rhizome	1560.0	7464.0	1.0	--
Psophocarpus tetragonolobus	Leaf	1490.0	6436.0	-1.0570165649654388	--
Phaseolus vulgaris	Sprout Seedling	1440.0	15484.0	1.261205834725475	USDA's Ag Handbook 8 and sequelae)
Allium schoenoprasum	Leaf	1390.0	17375.0	1.8481537597591051	USDA's Ag Handbook 8 and sequelae)
Spinacia oleracea	Plant	1340.0	15914.0	1.6896690344750718	USDA's Ag Handbook 8 and sequelae)
Amaranthus sp.	Leaf	1320.0	15880.0	1.45111293011625	--
Zea mays	Seed	1270.0	5283.0	-0.8196658866632359	USDA's Ag Handbook 8 and sequelae)
Nasturtium officinale	Herb	1120.0	22400.0	1.0	USDA's Ag Handbook 8 and sequelae)
Castanea sativa	Seed	1070.0	2353.0	-1.2432928445924616	--
Rehmannia glutinosa	Root	1000.0	2000.0	-0.5929061275704846	--
Ipomoea aquatica	Leaf	990.0	13150.0	0.7260818498988622	--
Asparagus officinalis	Shoot	990.0	12774.0	-1.0	--
Brassica oleracea var. botrytis l.	Leaf	950.0	10203.0	-0.05657990592554876	--
Vigna radiata	Sprout Seedling	930.0	6618.0	-1.1846966656046878	USDA's Ag Handbook 8 and sequelae)
Valerianella locusta	Leaf	790.0	10970.0	0.14711930232600304	--
Capsicum frutescens	Fruit	740.0	6038.0	0.9413380636653274	USDA's Ag Handbook 8 and sequelae)
Colocasia esculenta	Root	740.0	2520.0	-0.20021555430297686	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pisum sativum	Fruit	720.0	7122.0	1.360670467766508	--
Basella alba	Leaf	670.0	9710.0	-0.187510427005099	--
Persea americana	Fruit	660.0	3226.0	-0.14645042372629669	--
Phaseolus vulgaris	Fruit	650.0	6680.0	1.1896880668322627	USDA's Ag Handbook 8 and sequelae)
Manihot esculenta	Root	640.0	2030.0	-0.5702509021896668	--
Brassica oleracea var. botrytis l.	Flower	640.0	8270.0		--
Solanum tuberosum	Tuber	620.0	5700.0	0.24375389084035604	--
Brassica oleracea var. viridis l.	Leaf	600.0	9834.0	-0.15457861237251436	--
Ipomoea batatas	Root	580.0	2725.0	-0.045404847534055576	--
Cichorium endivia	Leaf	580.0	9340.0	-0.2857747126023274	--
Lactuca sativa	Leaf	570.0	9500.0	-0.24328204856028268	--
Allium cepa	Bulb	490.0	5341.0	1.0	--
Portulaca oleracea	Herb	460.0	11000.0	-1.0	--
Dioscorea pentaphylla	Root	460.0	2480.0	-0.23042252147740053	--
Sechium edule	Fruit	450.0	6430.0	1.0929785640414	--
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)
Abelmoschus esculentus	Fruit	440.0	4400.0	0.30769740137959467	USDA's Ag Handbook 8 and sequelae)
Cucurbita spp	Fruit	440.0	6962.0	1.298776385980356	--
Zingiber officinale	Rhizome	430.0	2486.0	-1.0	--
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)
Zingiber officinale	Root	430.0	2486.0	-0.22589147640123697	USDA's Ag Handbook 8 and sequelae)
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)
Asimina triloba	Fruit	389.0	3501.0	-0.040069970656347695	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Sambucus canadensis</i>	Fruit	360.0	1782.0	-0.7050445118463198	USDA's Ag Handbook 8 and sequelae)
<i>Solanum melongena</i>	Fruit	320.0	5452.0	0.7146509891235451	--
<i>Capsicum annuum</i>	Fruit	310.0	4228.0	0.24116126345948113	--
<i>Arctium lappa</i>	Root	310.0	1550.0	-0.9327345082827507	USDA's Ag Handbook 8 and sequelae)
<i>Pachyrhizus erosus</i>	Tuber	310.0	2855.0	-0.8182366442910574	--
<i>Daucus carota</i>	Root	300.0	2455.0	-0.24930187596141531	--
<i>Beta vulgaris</i>	Root	290.0	2287.0	-0.3761711380939947	USDA's Ag Handbook 8 and sequelae)
<i>Psidium cattleianum</i>	Fruit	290.0	1500.0	-0.814132830994413	--
<i>Vaccinium corymbosum</i>	Fruit	280.0	1819.0	-0.6907315054332721	--
<i>Cucurbita pepo</i>	Fruit	270.0	8000.0	1.700314241568018	--
<i>Brassica oleracea</i> var. <i>capitata</i> l.	Leaf	270.0	3610.0	-1.8075432436080534	USDA's Ag Handbook 8 and sequelae)
<i>Brassica napus</i> var. <i>napobrassica</i>	Root	270.0	2610.0	-0.1322498781605236	USDA's Ag Handbook 8 and sequelae)
<i>Averrhoa carambola</i>	Fruit	260.0	2860.0	-0.28803313581211976	USDA's Ag Handbook 8 and sequelae)
<i>Brassica rapa</i>	Root	250.0	3075.0	0.2189061152421515	--
<i>Ficus carica</i>	Fruit	250.0	1197.0	-0.9313447483769386	USDA's Ag Handbook 8 and sequelae)
<i>Prunus persica</i>	Fruit	240.0	1944.0	-0.6423767540378408	--
<i>Fragaria</i> spp	Fruit	240.0	2847.0	-0.2930620299572446	USDA's Ag Handbook 8 and sequelae)
<i>Raphanus sativus</i>	Root	220.0	4265.0	1.1175633886812555	--
<i>Mangifera indica</i>	Fruit	210.0	1900.0	-0.6593976265290327	--
<i>Apium graveolens</i>	Pt	210.0	4290.0		USDA's Ag Handbook 8 and sequelae)
<i>Vitis vinifera</i>	Fruit	200.0	1029.0	-0.9963335342523983	USDA's Ag Handbook 8 and sequelae)
<i>Phyllanthus emblica</i>	Fruit	198.0	980.0	-1.0152885967994074	--
<i>Cucumis sativus</i>	Fruit	190.0	4810.0	0.46630098595660957	--
<i>Carica papaya</i>	Fruit	180.0	1611.0	-0.7711938117552699	USDA's Ag Handbook 8 and sequelae)
<i>Prunus domestica</i>	Fruit	120.0	811.0	-1.0806642206860306	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pyrus communis</i>	Fruit	110.0	679.0	-1.1317268381596062	--
<i>Malus domestica</i>	Plant	80.0	497.0	-0.8208359653564842	--
<i>Ananas comosus</i>	Fruit	65.0	1259.0	-0.9073607916848047	--
<i>Citrus sinensis</i>	Fruit	50.0	7097.0	1.3509995174874219	--
<i>Phoenix dactylifera</i>	Fruit	40.0	3010.0	-0.2300074341376021	--
<i>Panax quinquefolius</i>	Plant	23.0	1540.0	-0.6509937966580142	--
<i>Lycopersicon esculentum</i>	Fruit	23.0	3637.0	0.012539998861881632	--
<i>Citrus reticulata</i>	Fruit	20.0	5158.0	0.6009206138414905	--
<i>Fagopyrum esculentum</i>	Seed		9750.0	-0.17381550404553908	--
<i>Salvia officinalis</i>	Plant				Stitt, Paul. Why George should eat broccoli.
<i>Allium sativum</i> var. <i>sativum</i>	Leaf				--
<i>Silybum marianum</i>	Seed				--
<i>Vigna unguiculata</i>	Seed		8550.0	-0.3473145994431742	--
<i>Cryptotaenia japonica</i>	Root				--
<i>Melia azedarach</i>	Plant				--
<i>Echinacea purpurea</i>	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Lycium chinense</i>	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Stachys officinalis</i>	Shoot				--
<i>Lentinus edodes</i>	Fruit				--
<i>Angelica sinensis</i>	Root				Jim Duke's personal files.
<i>Oryza sativa</i>	Plant				--
<i>Coriandrum sativum</i>	Fruit				--
<i>Aloe vera</i>	Leaf		5030.0	-1.4304208502349065	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Lepidium meyenii	Root		6830.0	3.054585158741173	Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.
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.
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				--
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.
Senna obtusifolia	Seed		6890.0	-0.5873216814099028	--
Larrea tridentata	Plant		4200.0	-0.21783927246057364	--
Vigna unguiculata	Seed		8550.0	-0.3473145994431742	--
Pinellia ternata	Tuber				--
Citrus paradisi	Fruit				--
Artemisia dracuncululus	Root				--
Thymus vulgaris	Plant				Stitt, Paul. Why George should eat broccoli.

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Momordica charantia	Seed		38.2	-1.5779725996145	Jim Duke's personal files.
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.
Opuntia ficus-indica	Bud		4745.0		Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Opuntia ficus-indica	Seed		14200.0	0.4695769747206912	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Artemisia dracunculus	Shoot				--
Borago officinalis	Leaf				Jim Duke's personal files.
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.
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
Ocimum basilicum	Leaf		6900.0	-0.9337878392435092	USDA's Ag Handbook 8 and sequelae)



Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
Urtica dioica	Leaf				Jim Duke's personal files.
Canavalia ensiformis	Seed				--
Artemisia dracunculus	Leaf				--
Panax ginseng	Root				--
Panax ginseng	Leaf				--
Linum usitatissimum	Seed		0.352	-1.5834447610833413	--
Harpagophytum procumbens	Root				--
Avena sativa	Seed		2000.0	-1.294330495155266	Jim Duke's personal files.*
Tilia sp.	Fruit				--