

List of Plants



Chemid

GLYCINE

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	*Reference
Abelmoschus esculentus	Fruit	440.0	4400.0	0.31	USDA's Ag Handbook 8 and sequelae)
Acacia farnesiana	Leaf	2720.0	14590.0	1.11	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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.
Allium schoenoprasum	Leaf	1390.0	17375.0	1.85	USDA's Ag Handbook 8 and sequelae)
Allium sativum var. sativum	Bulb	2000.0	4800.0	-1.0	*
Allium sativum var. sativum	Leaf	--	--		*
Allium cepa	Bulb	490.0	5341.0	1.0	*
Aloe vera	Leaf	--	5030.0	-1.43	*
Alpinia galanga	Leaf	--	--		*
Amaranthus sp.	Leaf	1320.0	15880.0	1.45	*
Anacardium occidentale	Seed	8030.0	8169.0	-0.4	*
Ananas comosus	Fruit	65.0	1259.0	-0.91	*
Angelica sinensis	Root	--	--		Jim Duke's personal files.
Apium graveolens	Pt	210.0	4290.0		USDA's Ag Handbook 8 and sequelae)
Arachis hypogaea	Seed	15760.0	18993.0	1.16	*
Arctium lappa	Root	310.0	1550.0	-0.93	USDA's Ag Handbook 8 and sequelae)
Artemisia dracunculus	Shoot	--	--		*
Artemisia dracunculus	Leaf	--	--		*
Artemisia dracunculus	Root	--	--		*
Artocarpus altilis	Seed	4650.0	10635.0	-0.05	USDA's Ag Handbook 8 and sequelae)
Asimina triloba	Fruit	389.0	3501.0	-0.04	*
Asparagus officinalis	Shoot	990.0	12774.0	-1.0	*
Avena sativa	Seed	--	2000.0	-1.29	Jim Duke's personal files.*
Averrhoa carambola	Fruit	260.0	2860.0	-0.29	USDA's Ag Handbook 8 and sequelae)
Basella alba	Leaf	670.0	9710.0	-0.19	*
Bertholletia excelsa	Seed	6570.0	6797.0	-0.6	USDA's Ag Handbook 8 and sequelae)
Beta vulgaris	Root	290.0	2287.0	-0.38	USDA's Ag Handbook 8 and sequelae)

Borago officinalis	Leaf	--	--		Jim Duke's personal files.
Brassica rapa	Root	250.0	3075.0	0.22	*
Brassica oleracea var. capitata l.	Leaf	270.0	3610.0	-1.81	USDA's Ag Handbook 8 and sequelae)
Brassica chinensis	Leaf	430.0	9189.0	-0.33	*
Brassica oleracea var. sabellica l.	Leaf	1590.0	10232.0	-0.05	*
Brassica oleracea var. botrytis l.	Leaf	950.0	10203.0	-0.06	*
Brassica oleracea var. botrytis l.	Flower	640.0	8270.0		*
Brassica rapa	Leaf	430.0	9189.0	-0.33	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. viridis l.	Leaf	600.0	9834.0	-0.15	*
Brassica napus var. napobrassica	Root	270.0	2610.0	-0.13	USDA's Ag Handbook 8 and sequelae)
Cajanus cajan	Seed	6860.0	8970.0	-0.29	*
Calathea allouia	Root	3920.0	4310.0	1.15	*
Camellia sinensis	Leaf	--	--		*
Canavalia ensiformis	Seed	--	--		*
Capsicum frutescens	Fruit	740.0	6038.0	0.94	USDA's Ag Handbook 8 and sequelae)
Capsicum annuum	Fruit	310.0	4228.0	0.24	*
Carica papaya	Fruit	180.0	1611.0	-0.77	USDA's Ag Handbook 8 and sequelae)
Carum carvi	Seed	13220.0	14675.0	0.54	Revised USDA data received 1993.
Castanea sativa	Seed	1070.0	2353.0	-1.24	*
Castanea mollissima	Seed	1837.0	3271.0	-1.11	*
Castanea dentata	Seed	2268.0	4038.0	-1.0	*
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
Ceratonia siliqua	Seed	--	24910.0	2.02	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Chenopodium album	Leaf	2490.0	15861.0	1.45	*
Cicer arietinum	Seed	8030.0	9075.0	-0.27	USDA's Ag Handbook 8 and sequelae)
Cichorium endivia	Leaf	580.0	9340.0	-0.29	*
Citrullus lanatus	Fruit	--	1178.0	-0.94	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Citrus sinensis	Fruit	50.0	7097.0	1.35	*
Citrus reticulata	Fruit	20.0	5158.0	0.6	*
Citrus paradisi	Fruit	--	--		*
Cnidioscolus chayamansa	Leaf	2170.0	10850.0	0.12	*
Cocos nucifera	Seed	1580.0	2980.0	-1.15	USDA's Ag Handbook 8 and sequelae)
Cocos nucifera	Leaf	--	--		Jim Duke's personal files.

Cocos nucifera	Endosperm	--	--		Jim Duke's personal files.
Colocasia esculenta	Root	740.0	2520.0	-0.2	*
Corchorus olitorius	Leaf	2140.0	17420.0	1.86	*
Coriandrum sativum	Fruit	--	--		*
Crocus sativus	Bulb	--	--		*
Cryptotaenia japonica	Root	--	--		*
Cucumis sativus	Fruit	190.0	4810.0	0.47	*
Cucurbita spp	Fruit	440.0	6962.0	1.3	*
Cucurbita foetidissima	Seed	14735.0	27700.0	2.42	*
Cucurbita pepo	Seed	17960.0	39220.0	4.09	*
Cucurbita pepo	Fruit	270.0	8000.0	1.7	*
Daucus carota	Root	300.0	2455.0	-0.25	*
Dioscorea pentaphylla	Root	460.0	2480.0	-0.23	*
Echinacea purpurea	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Fagopyrum esculentum	Seed	--	9750.0	-0.17	*
Ficus carica	Fruit	250.0	1197.0	-0.93	USDA's Ag Handbook 8 and sequelae)
Foeniculum vulgare	Fruit	11070.0	12144.0	3.3	*
Foeniculum vulgare	Seed	11070.0	12144.0	0.17	USDA's Ag Handbook 8 and sequelae)
Fragaria spp	Fruit	240.0	2847.0	-0.29	USDA's Ag Handbook 8 and sequelae)
Ginkgo biloba	Seed	2320.0	6325.0	-0.67	USDA's Ag Handbook 8 and sequelae)
Glycine max	Seed	16870.0	18445.0	1.08	USDA's Ag Handbook 8 and sequelae)
Harpagophytum procumbens	Root	--	--		*
Helianthus annuus	Seed	14610.0	15400.0	0.64	USDA's Ag Handbook 8 and sequelae)
Helianthus tuberosus	Tuber	--	2478.0	-0.96	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.
Ipomoea batatas	Root	580.0	2725.0	-0.05	*
Ipomoea aquatica	Leaf	990.0	13150.0	0.73	*
Juglans regia	Seed	7550.0	7835.0	-0.45	USDA's Ag Handbook 8 and sequelae)
Juglans nigra	Seed	12030.0	12580.0	0.24	USDA's Ag Handbook 8 and sequelae)
Juglans cinerea	Seed	15080.0	15601.0	0.67	*
Lablab purpureus	Seed	10280.0	11345.0	0.06	*
Lactuca sativa	Leaf	570.0	9500.0	-0.24	*
Larrea tridentata	Plant	--	4200.0	-0.22	*
Lens culinaris	Sprout Seedling	3190.0	10635.0	-0.08	USDA's Ag Handbook 8 and sequelae)
Lentinus edodes	Fruit	--	--		*
Lepidium meyenii	Root	--	6830.0	3.05	Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.
Linum usitatissimum	Seed	--	0.352	-1.58	*
Lupinus albus	Seed	15390.0	17185.0	0.9	*

Lycium chinense	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Lycopersicon esculentum	Fruit	23.0	3637.0	0.01	*
Macadamia spp	Seed	3710.0	3815.0	-1.03	USDA's Ag Handbook 8 and sequelae)
Malus domestica	Plant	80.0	497.0	-0.82	*
Mangifera indica	Fruit	210.0	1900.0	-0.66	*
Manihot esculenta	Root	640.0	2030.0	-0.57	*
Melia azedarach	Plant	--	--		*
Mentha x piperita	Leaf	1800.0	8430.0	-0.53	USDA's Ag Handbook 8 and sequelae)
Mentha spicata	Leaf	1580.0	10935.0	0.14	USDA's Ag Handbook 8 and sequelae)
Momordica charantia	Seed	--	38.2	-1.58	Jim Duke's personal files.
Moringa oleifera	Shoot	5170.0	24225.0	1.0	USDA's Ag Handbook 8 and sequelae)
Mucuna pruriens	Seed	7200.0	15265.0	0.62	*
Murraya sp	Fruit	450.0	1296.0	-0.89	*
Musa x paradisiaca	Fruit	450.0	1296.0	-0.89	USDA's Ag Handbook 8 and sequelae)
Nasturtium officinale	Herb	1120.0	22400.0	1.0	USDA's Ag Handbook 8 and sequelae)
Nelumbo nucifera	Rhizome	1560.0	7464.0	1.0	*
Nelumbo nucifera	Seed	2210.0	6697.0	-0.62	*
Nigella sativa	Seed	8840.0	20700.0	1.41	*
Ocimum basilicum	Leaf	--	6900.0	-0.93	USDA's Ag Handbook 8 and sequelae)
Oenothera biennis	Seed	10500.0	11206.0	0.04	*
Opuntia ficus-indica	Seed	--	14200.0	0.47	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Opuntia ficus-indica	Bud	--	4745.0		Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Oryza sativa	Plant	--	--		*
Pachyrhizus erosus	Tuber	310.0	2855.0	-0.82	*
Panax quinquefolius	Plant	23.0	1540.0	-0.65	*
Panax ginseng	Leaf	--	--		*
Panax ginseng	Root	--	--		*
Papaver somniferum	Seed	11230.0	12047.0	0.16	*
Papaver bracteatum	Seed	7750.0	9350.0	-0.23	*
Perideridia gairdneri	Root	--	1842.0	-0.71	Izadost, 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.
Persea americana	Fruit	660.0	3226.0	-0.15	*
Phaseolus vulgaris	Sprout Seedling	1440.0	15484.0	1.26	USDA's Ag Handbook 8 and sequelae)
Phaseolus lunatus	Seed	2740.0	10090.0	-0.12	USDA's Ag Handbook 8 and sequelae)
Phaseolus vulgaris	Seed	8430.0	9474.0	-0.21	USDA's Ag Handbook 8 and sequelae)

Phaseolus vulgaris	Fruit	650.0	6680.0	1.19	USDA's Ag Handbook 8 and sequelae)
Phoenix dactylifera	Fruit	40.0	3010.0	-0.23	*
Phyllanthus emblica	Fruit	198.0	980.0	-1.02	*
Pinellia ternata	Tuber	--	--		*
Pinus edulis	Seed	5890.0	6260.0	-0.68	USDA's Ag Handbook 8 and sequelae)
Pinus pinea	Seed	12230.0	15000.0	0.59	*
Pistacia vera	Seed	10950.0	11391.0	0.06	*
Pisum sativum	Seed	1840.0	8704.0	-0.33	*
Pisum sativum	Fruit	720.0	7122.0	1.36	*
Plantago ovata	Seed	--	--		*
Portulaca oleracea	Herb	460.0	11000.0	-1.0	*
Prunus cerasus	Fruit	--	--		*
Prunus persica	Fruit	240.0	1944.0	-0.64	*
Prunus armeniaca	Fruit	400.0	2930.0	-0.26	USDA's Ag Handbook 8 and sequelae)
Prunus dulcis	Seed	12360.0	12929.0	0.29	USDA's Ag Handbook 8 and sequelae)
Prunus domestica	Fruit	120.0	811.0	-1.08	USDA's Ag Handbook 8 and sequelae)
Psidium guajava	Fruit	410.0	2952.0	-0.25	USDA's Ag Handbook 8 and sequelae)
Psidium cattleianum	Fruit	290.0	1500.0	-0.81	*
Psophocarpus tetragonolobus	Leaf	1490.0	6436.0	-1.06	*
Psophocarpus tetragonolobus	Tuber	3900.0	9155.0	1.53	*
Psophocarpus tetragonolobus	Seed	11400.0	12437.0	0.21	*
Psoralea esculenta	Root	--	1097.0	-1.27	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.
Pyrus communis	Fruit	110.0	679.0	-1.13	*
Raphanus sativus	Root	220.0	4265.0	1.12	*
Rehmannia glutinosa	Root	1000.0	2000.0	-0.59	*
Rosmarinus officinalis	Leaf	1590.0	4935.0	-1.46	USDA's Ag Handbook 8 and sequelae)
Salvia officinalis	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Sambucus canadensis	Fruit	360.0	1782.0	-0.71	USDA's Ag Handbook 8 and sequelae)
Scutellaria baicalensis	Root	--	--		*
Secale cereale	Seed	7010.0	7870.0	-0.45	USDA's Ag Handbook 8 and sequelae)
Sechium edule	Fruit	450.0	6430.0	1.09	*
Senna obtusifolia	Seed	--	6890.0	-0.59	*
Sesamum indicum	Seed	5890.0	19918.0	1.3	*
Silybum marianum	Seed	--	--		*
Sinapis alba	Seed	13120.0	14038.0	0.45	*
Solanum tuberosum	Tuber	620.0	5700.0	0.24	*

<i>Solanum melongena</i>	Fruit	320.0	5452.0	0.71	*
<i>Spinacia oleracea</i>	Plant	1340.0	15914.0	1.69	USDA's Ag Handbook 8 and sequelae)
<i>Stachys officinalis</i>	Shoot	--	--		*
<i>Theobroma cacao</i>	Seed	--	900.0	-1.45	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Thymus vulgaris</i>	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
<i>Tilia</i> sp.	Fruit	--	--		*
<i>Trigonella foenum-graecum</i>	Seed	10630.0	14366.0	0.49	*
<i>Triticum aestivum</i>	Seed	4830.0	5635.0	-0.77	*
<i>Urtica dioica</i>	Leaf	--	--		Jim Duke's personal files.
<i>Vaccinium corymbosum</i>	Fruit	280.0	1819.0	-0.69	*
<i>Valerianella locusta</i>	Leaf	790.0	10970.0	0.15	*
<i>Vicia faba</i>	Seed	2300.0	12100.0	0.17	USDA's Ag Handbook 8 and sequelae)
<i>Vigna angularis</i>	Seed	7560.0	8734.0	-0.32	*
<i>Vigna unguiculata</i>	Seed	--	8550.0	-0.35	*
<i>Vigna radiata</i>	Sprout Seedling	930.0	6618.0	-1.18	USDA's Ag Handbook 8 and sequelae)
<i>Vigna unguiculata</i>	Seed	--	8550.0	-0.35	*
<i>Vigna radiata</i>	Seed	9540.0	10489.0	-0.07	USDA's Ag Handbook 8 and sequelae)
<i>Vitis vinifera</i>	Fruit	200.0	1029.0	-1.0	USDA's Ag Handbook 8 and sequelae)
<i>Zea mays</i>	Seed	1270.0	5283.0	-0.82	USDA's Ag Handbook 8 and sequelae)
<i>Zingiber officinale</i>	Shoot	--	--		*
<i>Zingiber officinale</i>	Rhizome	430.0	2486.0	-1.0	*
<i>Zingiber officinale</i>	Root	430.0	2486.0	-0.23	USDA's Ag Handbook 8 and sequelae)
<i>Zingiber officinale</i>	Tuber	--	--		*