

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**List of Plants for GALLIC-ACID**

<b>Plant</b>	<b>Part</b>	<b>Low PPM</b>	<b>High PPM</b>	<b>StdDev</b>	<b>Reference</b>
Abrus precatorius	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Acacia catechu	Plant	--	--		--
Acacia decurrens	Plant	--	--		--
Acacia farnesiana	Plant	--	--		--
Acacia farnesiana	Flower	--	--		Wealth of India.
Acacia nilotica	Resin, Exudate, Sap	--	--		--
Acacia tortilis	Plant	--	--		--
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.
Actaea racemosa	Plant	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Ailanthus altissima	Plant	--	--		--
Anacardium occidentale	Seed	--	--		--
Anogeissus latifolia	Plant	--	--		--
Arbutus unedo	Leaf	--	--		--
Arctostaphylos uva-ursi	Plant	--	--		--
Arctostaphylos uva-ursi	Leaf	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Areca catechu	Seed	--	--		--
Arnica montana	Flower	--	--		--
Artemisia dracunculus	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Aspalathus linearis	Shoot	--	44000	1.4140081297693825	--
Aspalathus linearis	Leaf	--	44000	0.6988544721314695	--
Ballota nigra	Plant	--	--		--
Caesalpinia pulcherrima	Leaf	--	--		--
Camellia sinensis	Leaf	--	3500	-0.7468561442003636	--
Camptotheca acuminata	Leaf	--	--		--
Castanea sativa	Leaf	--	--		--
Ceratonia siliqua	Fruit	--	--		--
Chamaesyce hypericifolia	Latex Exudate	--	--		--
Cimicifuga racemosa	Plant	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Conyza canadensis	Leaf	--	--		--
Coriaria myrtifolia	Leaf	--	--		--
Coriaria thymifolia	Plant	--	--		--
Cornus florida	Bark	--	--		--
Cornus mas	Flower	--	--		Delaveau, P., Paris, R. R. 1961. Concerning the Presence of Rutoside and Gallic Derivatives from the Flowers of Cornus mas and Preliminary Research with C. sanguinea. Bull Soc Chim Biol, 43: 661-666.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cornus mas	Leaf	--	--		Delaveau, P., Paris, R. R. 1961. Concerning the Presence of Rutoside and Gallic Derivatives from the Flowers of Cornus mas and Preliminary Research with C. sanguinea. Bull Soc Chim Biol, 43: 661-666.
Cornus officinalis	Fruit	--	--		--
Corylus americana	Seed	--	--		Senter, S. D., Horvat, R. J., Forbus, W. R. 1983. Comparative GLC-MS Analysis of Phenolic Acids of Selected Tree Nuts. J. Food Science, 48(3): 798-799.
Cyamopsis tetragonoloba	Seed	--	--		Kaushal, G. P., Bhatia, I. S. 1982. A Study of Polyphenols in the Seeds and Leaves of Guar (Cyamopsis tetragonoloba L. Taub). J Sci Food Agr, 33: 461-470.
Cyamopsis tetragonoloba	Fruit	--	--		Bajaj, K. L., Rani, M., Arora, Y. K. 1978. Polyphenols and Lignins of Mature Guar Pods (Cyamopsis tetragonolobus). Plant Biochem J, 5: 140-145.
Cypripedium pubescens	Root	--	--		--
Digitalis purpurea	Leaf	--	--		--
Ephedra gerardiana	Plant	--	--		--
Ephedra sinica	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Equisetum arvense	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Eucalyptus globulus	Bark	--	--		--
Eucalyptus globulus	Leaf	--	--		--
Eucalyptus globulus	Stem	--	--		--
Eupatorium perfoliatum	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Euphorbia hirta	Plant	--	--		--
Euphrasia officinalis	Shoot	--	--		Jim Duke's personal files.
Euphrasia officinalis	Plant	--	--		--
Fragaria spp	Fruit	80	121	-1.0679444233170081	Jim Duke's personal files.
Gaultheria procumbens	Plant	--	--		--
Geranium maculatum	Root	--	--		--
Geranium thunbergii	Leaf	--	--		--
Glycine max	Leaf	0.1	2.9	-0.8716905786787352	--
Hamamelis virginiana	Leaf	54400	54400	1.070098679782113	--
Hypericum perforatum	Plant	--	--		--
Juglans nigra	Seed	--	--		--
Juglans regia	Fruit	--	--		--
Juniperus communis	Leaf	--	--		--
Juniperus sabina	Plant	--	--		--
Lagerstroemia indica	Flower	--	--		--
Lawsonia inermis	Leaf	--	69000	1.5912684328301319	--
Lycopus virginicus	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Malus domestica	Fruit	--	--		--
Malus domestica	Pericarp	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Mangifera indica	Flower	90000	90000		--
Marrubium vulgare	Plant	--	--		--
Marrubium vulgare	Flower	--	--		--
Melaleuca leucadendra	Plant	--	--		--
Melilotus officinalis	Shoot	--	--		--
Mucuna pruriens	Seed	--	--		--
Myrica cerifera	Plant	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Myrtus communis	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Oenothera biennis	Leaf	--	--		--
Oenothera biennis	Plant	--	--		--
Olea europaea	Fruit	--	--		--
Ononis spinosa	Root	--	--		Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.
Origanum vulgare	Leaf	--	--		--
Paeonia lactiflora	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Phyllanthus amarus	Shoot	864.8	865	-0.6861292784290273	--
Phyllanthus emblica	Fruit	50000	50000	1.434639526593213	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Phyllanthus emblica	Pericarp	--	50000	1	--
Phyllanthus emblica	Shoot	--	--		--
Podophyllum peltatum	Plant	--	--		--
Polygonum hydropiper	Plant	--	--		--
Polygonum hydropiperoides	Plant	--	--		--
Polygonum multiflorum	Tuber	--	--		--
Populus nigra	Plant	--	--		--
Prunus cerasus	Plant	--	--		--
Prunus serotina	Stem Bark	--	--		--
Psidium guajava	Fruit	--	--		--
Psidium guajava	Heart Wood	--	--		--
Psidium guajava	Root	--	--		--
Pterocarpus marsupium	Wood	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Pterocarpus santalinus	Wood	--	--		--
Punica granatum	Pericarp	900	40000	-1	--
Punica granatum	Fruit Juice	--	--		--
Quassia amara	Root	--	--		--
Quercus alba	Bark	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Quercus infectoria	Fruit	20000	40000	0.9329085476421072	--
Quercus robur	Bark	--	--		--
Quercus rubra	Wood	--	--		--
Rheum officinale	Root	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Rheum officinale	Rhizome	--	25.7		--
Rheum palmatum	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Rheum rhabarbarum	Pt	53	53		--
Rheum rhabarbarum	Root	--	--		--
Rhus coriaria	Leaf	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Rhynchosia minima	Seed	--	--		--
Ricinus communis	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosa canina	Stem	--	--		--
Rosa canina	Tissue Culture	--	--		--
Rosa centifolia	Flower	--	--		--
Rosa gallica	Flower	--	--		--
Rosa multiflora	Fruit	--	--		--
Rubus idaeus	Leaf	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rubus idaeus	Plant	--	--		--
Rubus idaeus	Juice	--	--		Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Salvia officinalis	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Sanguisorba minor	Plant	--	--		--
Schinus molle	Bark	--	--		--
Solanum tuberosum	Root Bark	--	--		--
Sorbus aucubaria	Fruit	--	--		--
Syzygium aromaticum	Flower	--	--		--
Syzygium aromaticum	Fruit	285	12600	-0.44183433468392297	--
Syzygium cumini	Fruit	--	--		Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Tagetes lucida	Leaf	--	--		Tramil
Taxus baccata	Leaf	0.001	0.3	-0.871783389730648	--
Terminalia arjuna	Shoot	--	7.5	-0.7278788513403553	Pettit, G. R., Hoard, M. S., Doubek, D. L., Schmidt, J. M., Pettit, R. K., Tackett, L. P., Chapuis, J. C. 1996. Antineoplastic Agents 338. The Cancer Cell Growth Inhibitory Constituents of Terminalia arjuna (Combretaceae). J. Ethnopharmacol. 53 1: 57-63.
Terminalia arjuna	Root Bark	--	3		Anjaneyulu, A. S. R., Rama Prasad, A. V. 1982. Chemical Examination of the Roots of Terminalia arjuna-The Structures of Arjunoside 3 and Arjunoside 4, Two New Triterpenoid Glycosides. Phytochemistry 21: 2057-2060.



Plant	Part	Low PPM	High PPM	StdDev	Reference
Terminalia arjuna	Leaf	--	--		Kandil, F. E., Nassar, M. I. 1998. A Tannin Anti-Cancer Promotor from Terminalia arjuna. Phytochemistry 47 8: 1567-1568.
Terminalia bellirica	Fruit	--	--		--
Terminalia catappa	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Terminalia chebula	Fruit	--	4310	-0.8577693162343898	--
Terminalia chebula	Leaf	--	53.3	-0.8698914721339668	Lin,T.C.,et al.1990.Tannins and Related Compounds.CII.Structures of Terchebulin, an Ellagitannin Having a Novel Tetraphenylcarboxylic Acid (Terchebolic Acid) and Biogenetically Related Tannins from Terminalia chebula Retz. Chem Pharm Bull 38 11:3004-3008.
Terminalia pallida	Fruit	--	--		--
Thymus vulgaris	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Tussilago farfara	Flower	--	--		--
Uncaria catechu	Branches	--	--		--
Urginea maritima	Bulb	--	--		--
Urtica dioica	Plant	--	--		--
Vaccinium corymbosum	Plant	--	--		--
Vaccinium myrtillus	Leaf	--	--		--
Vaccinium myrtillus	Fruit Juice	--	--		--
Vaccinium vitis-idaea	Leaf	--	--		--
Vitis vinifera	Fruit	--	--		--

<b>Plant</b>	<b>Part</b>	<b>Low PPM</b>	<b>High PPM</b>	<b>StdDev</b>	<b>Reference</b>
Vitis vinifera	Root	--	--		--
Vitis vinifera	Seed	--	--		--
Vitis vinifera	Leaf	--	--		--
Zea mays	Tissue Culture	--	--		--