

# List of Plants

## CAFFEIC-ACID

### Chemid

CAFFEICACID

\*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
Achillea millefolium	Plant	--	--		*
Aconitum napellus	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Actaea dahurica	Rhizome	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Actaea cimicifuga	Rhizome	--	--		*
Adonis vernalis	Plant	--	--		*
Agrimonia eupatoria	Plant	--	--		*
Albizia lebbek	Leaf	--	--		Wealth of India.
Allium cepa	Bulb	--	--		*
Allium cepa	Leaf	--	--		Das, V. S. R., Rao, J. V. S. 1964. Phenolic Acids of Onion Plant. Curr. Sci., 33(15): 471-472.
Allium schoenoprasum	Leaf	--	0.5	-0.72	*
Allium ampeloprasum	Plant	--	--		*
Allium sativum var. sativum	Bulb	10.0	20.0		*
Allium cepa	Root	--	--		Das, V. S. R., Rao, J. V. S. 1964. Phenolic Acids of Onion Plant. Curr. Sci., 33(15): 471-472.
Althaea officinalis	Leaf	--	--		*
Althaea officinalis	Flower	--	--		*
Althaea officinalis	Root	--	--		*
Ananas comosus	Fruit	--	--		Wealth of India.
Anethum graveolens	Leaf	--	1140.0	-0.56	*
Anethum graveolens	Seed	--	--		*
Anethum graveolens	Fruit	--	--		*
Angelica archangelica	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
Annona muricata	Plant	--	--		*
Apium graveolens	Root	--	--		*
Apium graveolens	Seed	--	--		Wealth of India.
Apium graveolens	Leaf	--	--		*
Arachis hypogaea	Seed	--	11.0	-0.76	*
Arctium lappa	Root	--	2500.0	0.17	*
Arctostaphylos uva-ursi	Leaf	--	--		*
Arctostaphylos uva-ursi	Plant	--	--		*

<i>Armoracia rusticana</i>	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
<i>Arnica montana</i>	Flower	--	--		*
<i>Artemisia dracunculus</i>	Leaf	--	7640.0	0.34	*
<i>Artemisia abrotanum</i>	Plant	--	--		*
<i>Artemisia dracunculus</i>	Shoot	--	--		*
<i>Artemisia capillaris</i>	Plant	--	--		*
<i>Asimina triloba</i>	Leaf	--	--		*
<i>Aspalathus linearis</i>	Shoot	--	0.66	-0.7	*
<i>Astragalus membranaceus</i>	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Avena sativa</i>	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
<i>Ballota nigra</i>	Leaf	--	2000.0	-0.44	*
<i>Berberis vulgaris</i>	Fruit	--	--		Jim Duke's personal files.
<i>Berberis vulgaris</i>	Plant	--	--		*
<i>Beta vulgaris</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Brassica oleracea</i> var. <i>gemmifera</i>	Leaf	--	34.0	-0.71	*
<i>Brassica oleracea</i> var. <i>italica</i>	Leaf	--	8.0	-0.71	*
<i>Brassica pekinensis</i>	Leaf	--	11.0	-0.71	*
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Leaf	--	8.0	-0.71	*
<i>Brassica oleracea</i> var. <i>capitata</i> l.	Leaf	0.5	77.0	-0.71	*
<i>Brassica nigra</i>	Seed	--	--		Jim Duke's personal files.
<i>Calendula officinalis</i>	Plant	--	--		*
<i>Camellia sinensis</i>	Plant	--	--		*
<i>Capsicum frutescens</i>	Fruit	--	32.0	-0.33	*
<i>Capsicum annuum</i>	Fruit	--	11.0	-0.34	*
<i>Carica papaya</i>	Leaf	--	--		Jim Duke's personal files.
<i>Carum carvi</i>	Seed	--	2840.0	1.94	*
<i>Castanea sativa</i>	Leaf	--	--		*
<i>Catalpa bignonioides</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ceiba pentandra</i>	Leaf	--	--		*
<i>Centaurea cyanus</i>	Flower	--	--		Jim Duke's personal files.
<i>Centaurea cyanus</i>	Shoot	--	--		Jim Duke's personal files.
<i>Centaurium erythraea</i>	Plant	--	--		*
<i>Chamaemelum nobile</i>	Plant	--	--		*
<i>Cichorium intybus</i>	Shoot	--	--		*
<i>Cichorium intybus</i>	Leaf	--	767.0	-0.61	*
<i>Cichorium endivia</i>	Leaf	--	--		*
<i>Cimicifuga dahurica</i>	Rhizome	--	--		*

<i>Cinchona pubescens</i>	Bark	--	--		*
<i>Cinchona pubescens</i>	Leaf	--	--		*
<i>Cinchona</i> spp	Bark	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Cinnamomum verum</i>	Bark	--	6.0		*
<i>Cinnamomum camphora</i>	Plant	--	--		*
<i>Citrullus colocynthis</i>	Fruit	--	--		*
<i>Citrullus lanatus</i>	Seed	--	--		*
<i>Citrus paradisi</i>	Fruit	40.0	51.0	-0.33	*
<i>Citrus sinensis</i>	Fruit	2.0	50.0	-0.33	*
<i>Citrus sinensis</i>	Fruit Juice	--	--		Jim Duke's personal files.
<i>Citrus limon</i>	Fruit	21.0	35.0	-0.33	*
<i>Clematis vitalba</i>	Plant	--	--		*
<i>Cnicus benedictus</i>	Plant	--	--		Jim Duke's personal files.
<i>Coccinia grandis</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Coffea arabica</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Coffea arabica</i>	Fruit	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<i>Cola acuminata</i>	Plant	--	--		*
<i>Coleus barbatus</i>	Root	--	42.9	-0.88	Jim Duke's personal files.
<i>Conium maculatum</i>	Plant	--	--		*
<i>Convallaria majalis</i>	Plant	--	--		*
<i>Conyza canadensis</i>	Plant	--	--		*
<i>Coriandrum sativum</i>	Leaf	--	--		*
<i>Coriandrum sativum</i>	Shoot	--	--		*
<i>Coriandrum sativum</i>	Fruit	--	770.0	-0.2	*
<i>Corylus americana</i>	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.
<i>Crataegus rhipidophylla</i>	Shoot	--	--		*
<i>Crataegus laevigata</i>	Leaf	--	--		*
<i>Crataegus rhipidophylla</i>	Inflorescence	--	--		*
<i>Crataegus laevigata</i>	Bud	--	--		*
<i>Crataegus rhipidophylla</i>	Leaf	--	--		*
<i>Crataegus monogyna</i>	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Crataegus laevigata</i>	Shoot	--	--		*
<i>Crataegus rhipidophylla</i>	Bud	--	--		*
<i>Crataegus rhipidophylla</i>	Flower	--	--		*

<i>Crataegus laevigata</i>	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Crataegus laevigata</i>	Flower	--	--		*
<i>Cucumis sativus</i>	Fruit	--	--		*
<i>Cucumis melo</i>	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
<i>Cucurbita pepo</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Curcuma longa</i>	Rhizome	--	5.0		*
<i>Cyamopsis tetragonoloba</i>	Seed	--	--		Kaushal, G. P., Bhatia, I. S. 1982. A Study of Polyphenols in the Seeds and Leaves of Guar ( <i>Cyamopsis tetragonoloba</i> L. Taub). J Sci Food Agr, 33: 461-470.
<i>Cynara cardunculus</i>	Flower	--	--		*
<i>Cynara cardunculus</i>	Leaf	--	--		Jim Duke's personal files.
<i>Datura stramonium</i>	Plant	--	--		*
<i>Daucus carota</i>	Root	--	--		*
<i>Digitalis purpurea</i>	Leaf	--	--		*
<i>Dipsacus fullonum</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Dodonaea viscosa</i>	Plant	--	--		*
<i>Echinacea</i> spp	Plant	--	--		*
<i>Elaeagnus angustifolia</i>	Fruit	--	--		Kusova, R. D., Kazakov, A. L., Luk'yanchikov, M. S. 1988. Phenolic Compounds From Fruit of <i>Elaeagnus angustifolia</i> . Chem. Nat. Comp. 24 3: 392-393. Pyatigorsk Farm Inst Pyatigorsk USSR.
<i>Elaeagnus angustifolia</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Elettaria cardamomum</i>	Fruit	--	2.0	-0.34	*
<i>Eleutherococcus senticosus</i>	Root	--	--		*
<i>Equisetum arvense</i>	Plant	--	8000.0	0.18	*
<i>Equisetum hyemale</i>	Plant	--	--		*
<i>Equisetum arvense</i>	Shoot	--	--		Jim Duke's personal files.
<i>Eriobotrya japonica</i>	Plant	--	--		*
<i>Erythroxylum coca</i>	Leaf	--	--		*
<i>Eucalyptus globulus</i>	Leaf	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Euphorbia pulcherrima</i>	Plant	--	--		*
<i>Euphorbia hirta</i>	Plant	--	--		Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
<i>Euphrasia officinalis</i>	Shoot	--	6000.0	1.71	Jim Duke's personal files.
<i>Euphrasia officinalis</i>	Plant	--	11500.0	0.73	Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
<i>Fagopyrum esculentum</i>	Plant	--	--		*
<i>Ficus carica</i>	Plant	--	--		*
<i>Foeniculum vulgare</i>	Seed	0.5	225.0	-0.56	*
<i>Foeniculum vulgare</i>	Fruit	--	--		*
<i>Fragaria</i> spp	Fruit	15.0	34.0	-0.33	Jim Duke's personal files.

Gaultheria procumbens	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Gentiana lutea	Root	--	--		*
Glechoma hederacea	Plant	--	--		*
Glycine max	Seed	1.0	4.0	-0.77	*
Harpagophytum procumbens	Root	--	--		*
Helianthus annuus	Seed	1600.0	1800.0	0.95	*
Helianthus annuus	Pollen Or Spore	--	4.0		*
Helichrysum angustifolium	Plant	--	--		*
Hordeum vulgare	Fruit	--	--		*
Hordeum vulgare	Seed	--	--		*
Humulus lupulus	Plant	--	--		*
Hypericum perforatum	Shoot	--	1000.0	-0.3	*
Hypericum perforatum	Plant	--	1000.0	-0.93	*
Hyssopus officinalis	Plant	--	--		Jim Duke's personal files.
Inonotus obliquus	Plant	--	--		*
Ipomoea purga	Tuber	30000.0	40000.0	1.0	*
Ipomoea batatas	Root	--	--		*
Juglans regia	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Juglans regia	Testa	15.0	115.0		*
Juglans regia	Seed	1.0	6.0	-0.77	*
Juglans nigra	Seed	--	--		*
Juniperus communis	Leaf	--	--		*
Juniperus communis	Fruit	--	--		*
Kalanchoe pinnata	Plant	--	--		*
Lactuca sativa	Plant	--	--		*
Laurus nobilis	Leaf	--	--		*
Laurus nobilis	Fruit	--	--		*
Levisticum officinale	Root	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Ligustrum japonicum	Flower	--	--		*
Lycopersicon esculentum	Fruit	--	6.0	-0.34	*
Lycopodium clavatum	Plant	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Lycopus virginicus	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Lycopus europeus	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Magnolia officinalis	Plant	--	--		*
Magnolia kobus	Plant	--	--		*
Malus domestica	Fruit	85.0	1270.0	-0.1	*
Malus domestica	Fruit Juice	--	--		*

Marrubium vulgare	Plant	--	--		*
Matricaria recutita	Plant	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
Medicago sativa	Tissue Culture	--	--		*
Melia azedarach	Plant	--	--		*
Melilotus officinalis	Shoot	--	--		*
Melilotus officinalis	Plant	--	--		Pharmazie, 46: 156, 1991.
Melissa officinalis	Plant	--	2100.0	-0.75	*
Mentha x piperita	Shoot	--	--		*
Mentha x rotundifolia	Shoot	--	--		Jim Duke's personal files.
Menyanthes trifoliata	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Moringa oleifera	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Morus alba	Plant	--	--		*
Myristica fragrans	Plant	--	16.0	-1.08	*
Nicotiana tabacum	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum basilicum	Leaf	--	19100.0	1.93	*
Ocimum basilicum	Tissue Culture	--	--		*
Oenothera biennis	Leaf	--	--		*
Olea europaea	Fruit	--	--		*
Origanum vulgare	Shoot	--	--		*
Origanum majorana	Shoot	--	--		*
Origanum vulgare	Plant	--	6000.0	-0.14	*
Origanum vulgare	Leaf	106.0	1060.0	-0.57	*
Origanum majorana	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Origanum majorana	Leaf	--	14100.0	1.24	*
Panax ginseng	Root	--	--		*
Papaver somniferum	Leaf	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Papaver somniferum	Pericarp	--	--		*
Perilla frutescens	Plant	--	--		J.S. Glasby Dict.Pl's Containing 2ndary Metabolite. 1991.
Persea americana	Fruit	--	--		*
Petroselinum crispum	Stem	--	--		*
Peucedanum ostruthium	Root	--	--		*
Phaseolus vulgaris	Fruit	--	--		*
Phaseolus vulgaris	Leaf	--	--		*
Phaseolus vulgaris	Shoot	--	--		*
Pimpinella anisum	Seed	--	2060.0	1.2	*
Pimpinella anisum	Plant	--	--		*
Pinus sylvestris	Leaf	--	--		*
Piper nigrum	Fruit	--	6.0	-0.34	*
Pisum sativum	Plant	--	--		*
Plantago major	Plant	--	--		*

Polypodium vulgare	Rhizome	--	--		*
Populus balsamifera	Essential Oil	--	--		*
Portulaca oleracea	Plant	--	--		*
Prunus persica	Leaf	--	--		*
Prunus domestica	Plant	--	--		*
Prunus laurocerasus	Plant	--	--		*
Prunus cerasus	Plant	--	--		*
Prunus spinosa	Plant	--	--		*
Prunus dulcis	Plant	--	--		*
Prunus armeniaca	Plant	--	--		*
Prunus serotina	Plant	--	--		*
Pteridium aquilinum	Plant	--	--		*
Punica granatum	Leaf	--	--		*
Punica granatum	Fruit Juice	--	--		*
Punica granatum	Plant	--	--		*
Pyrus communis	Fruit	43.0	19700.0	3.31	*
Raphanus sativus	Root	--	91.0	-0.86	*
Rheum officinale	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rheum rhabarbarum	Pt	--	8.0		*
Rhododendron ponticum	Plant	--	--		*
Ribes nigrum	Fruit	--	--		*
Rosa canina	Tissue Culture	--	--		*
Rosa canina	Stem	--	--		*
Rosmarinus officinalis	Shoot	--	--		*
Rosmarinus officinalis	Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Rubus idaeus	Fruit	--	--		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.
Rubus idaeus	Plant	--	--		*
Salvia sp.	Seed	--	306.0	-0.48	Phenolic Compounds in Food and Their Effects on Health, 67.
Salvia officinalis	Shoot	--	--		*
Salvia officinalis	Inflorescence	--	--		*
Sambucus simpsonii	Flower	--	--		Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Sambucus nigra	Plant	--	--		*
Sanguisorba minor	Plant	--	--		*
Santolina chamaecyparissus	Plant	--	--		*
Satureja montana	Shoot	--	--		*
Scopolia carniolica	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Senna obtusifolia	Seed	--	--		*
Sesamum indicum	Fruit	--	--		*
Sesamum indicum	Leaf	--	--		*
Solanum torvum	Plant	--	--		*

Solanum tuberosum	Flower	--	--		*
Solanum melongena	Fruit	--	--		*
Solanum tuberosum	Root Bark	--	--		*
Solanum tuberosum	Tuber	18.0	1400.0	-1.0	*
Solanum tuberosum	Tuber Epidermis	--	--		*
Solidago virgaurea	Flower	--	--		*
Solidago gigantea	Plant	--	21980.0	2.39	*
Sophora japonica	Plant	--	--		*
Sorbus aucubaria	Fruit	--	--		*
Spartium junceum	Plant	--	--		*
Spinacia oleracea	Leaf	--	--		*
Spinacia oleracea	Shoot	--	--		*
Stachys officinalis	Shoot	--	--		*
Stachys officinalis	Plant	--	5000.0	-0.3	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Stellaria media	Shoot	--	--		*
Symphytum officinale	Root	--	--		*
Tagetes patula	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Tanacetum vulgare	Plant	--	--		*
Taraxacum officinale	Flower	--	--		*
Taraxacum officinale	Plant	--	--		*
Taxus baccata	Leaf	0.9	4.7	-0.72	*
Tecoma stans	Plant	--	--		*
Teucrium chamaedrys	Plant	--	--		Abstract (See species file)
Teucrium scorodonia	Leaf	--	20000.0	2.06	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Theobroma cacao	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Thymus vulgaris	Leaf	--	16900.0	1.63	*
Thymus serpyllum	Plant	--	6200.0	-0.11	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Tilia sp.	Flower	--	--		*
Trifolium pratense	Leaf	--	--		*
Trifolium pratense	Flower	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Triticum aestivum	Seed	3.0	4.0	-0.77	*
Urtica dioica	Plant	--	--		*
Urtica dioica	Leaf	--	--		Jim Duke's personal files.
Vaccinium myrtillus	Leaf	--	40.0	-0.71	*
Vaccinium myrtillus	Fruit	--	--		*
Vaccinium corymbosum	Plant	--	--		*
Vaccinium vitis-idaea	Leaf	--	--		*



Vaccinium myrtillus	Fruit Juice	--	--		*
Valeriana officinalis	Plant	--	--		*
Valeriana officinalis	Root	--	5800.0	1.57	*
Verbena officinalis	Leaf	--	10000.0	0.67	*
Viburnum opulus	Branches	--	--		*
Vicia faba	Plant	--	--		*
Viscum album	Plant	--	--		*
Vitis vinifera	Fruit	--	--		*
Vitis vinifera	Root	--	--		*
Vitis vinifera	Leaf	--	--		*
Zea mays	Sprout Seedling	--	--		*
Zea mays	Shoot	--	0.7	-0.7	*
Zingiber officinale	Rhizome	--	--		*