

# C 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 cimicifuga	Rhizome	--	--		--
Actaea dahurica	Rhizome	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Adonis vernalis	Plant	--	--		--
Agrimonia eupatoria	Plant	--	--		--
Albizia lebbek	Leaf	--	--		Wealth of India.
Allium ampeloprasum	Plant	--	--		--
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Allium cepa	Root	--	--		Das, V. S. R., Rao, J. V. S. 1964. Phenolic Acids of Onion Plant. Curr. Sci., 33(15): 471-472.
Allium sativum var. sativum	Bulb	10	20		--
Allium schoenoprasum	Leaf	--	0.5	-0.715857836754432	--
Althaea officinalis	Leaf	--	--		--
Althaea officinalis	Flower	--	--		--
Althaea officinalis	Root	--	--		--
Ananas comosus	Fruit	--	--		Wealth of India.
Anethum graveolens	Fruit	--	--		--
Anethum graveolens	Seed	--	--		--
Anethum graveolens	Leaf	--	1140	-0.5577746068901522	--
Angelica archangelica	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
Annona muricata	Plant	--	--		--
Apium graveolens	Leaf	--	--		--
Apium graveolens	Seed	--	--		Wealth of India.
Apium graveolens	Root	--	--		--
Arachis hypogaea	Seed	11	11	-0.7603797516688712	--
Arctium lappa	Root	2500	2500	0.16650294770473825	--
Arctostaphylos uva-ursi	Plant	--	--		--
Arctostaphylos uva-ursi	Leaf	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Armoracia rusticana	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.
Arnica montana	Flower	--	--		--
Artemisia abrotanum	Plant	--	--		--
Artemisia capillaris	Plant	--	--		--
Artemisia dracunculus	Shoot	--	--		--
Artemisia dracunculus	Leaf	7640	7640	0.34397264551688544	--
Asimina triloba	Leaf	--	--		--
Aspalathus linearis	Shoot	--	0.66	-0.703465468886938	--
Astragalus membranaceus	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Avena sativa	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Ballota nigra	Leaf	--	2000	-0.43846650887937494	--
Berberis vulgaris	Plant	--	--		--
Berberis vulgaris	Fruit	--	--		Jim Duke's personal files.
Beta vulgaris	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Brassica nigra	Seed	--	--		Jim Duke's personal files.
Brassica oleracea var. botrytis l.	Leaf	--	8	-0.7148173591555008	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Brassica oleracea var. capitata l.	Leaf	0.5	77	-0.7052449652453338	--
Brassica oleracea var. gemmifera	Leaf	34	34	-0.7112103701458726	--
Brassica oleracea var. italica	Leaf	--	8	-0.7148173591555008	--
Brassica pekinensis	Leaf	11	11	-0.7144011681159284	--
Calendula officinalis	Plant	--	--		--
Camellia sinensis	Plant	--	--		--
Capsicum annum	Fruit	11	11	-0.3368770543074836	--
Capsicum frutescens	Fruit	32	32	-0.3329891212786086	--
Carica papaya	Leaf	--	--		Jim Duke's personal files.
Carum carvi	Seed	--	2840	1.9446682932160153	--
Castanea sativa	Leaf	--	--		--
Catalpa bignonioides	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ceiba pentandra	Leaf	--	--		--
Centaurea cyanus	Flower	--	--		Jim Duke's personal files.
Centaurea cyanus	Shoot	--	--		Jim Duke's personal files.
Centaureum erythraea	Plant	--	--		--
Chamaemelum nobile	Plant	--	--		--
Cichorium endivia	Leaf	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cichorium intybus	Leaf	767	767	-0.6095210261436637	--
Cichorium intybus	Shoot	--	--		--
Cimicifuga dahurica	Rhizome	--	--		--
Cinchona pubescens	Bark	--	--		--
Cinchona pubescens	Leaf	--	--		--
Cinchona spp	Bark	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Cinnamomum camphora	Plant	--	--		--
Cinnamomum verum	Bark	--	6		--
Citrullus colocynthis	Fruit	--	--		--
Citrullus lanatus	Seed	--	--		--
Citrus limon	Fruit	21	35	-0.3324337022744836	--
Citrus paradisi	Fruit	40	51	-0.3294714675858169	--
Citrus sinensis	Fruit	2	50	-0.3296566072538586	--
Citrus sinensis	Fruit Juice	--	--		Jim Duke's personal files.
Clematis vitalba	Plant	--	--		--
Cnicus benedictus	Plant	--	--		Jim Duke's personal files.
Coccinia grandis	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Coffea arabica	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Coffea arabica	Fruit	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Cola acuminata	Plant	--	--		--
Coleus barbatus	Root	--	42.9	-0.8784223898990208	Jim Duke's personal files.
Conium maculatum	Plant	--	--		--
Convallaria majalis	Plant	--	--		--
Conyza canadensis	Plant	--	--		--
Coriandrum sativum	Fruit	--	770	-0.1963560462638582	--
Coriandrum sativum	Leaf	--	--		--
Coriandrum sativum	Shoot	--	--		--
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.
Crataegus laevigata	Leaf	--	--		--
Crataegus laevigata	Flower	--	--		--
Crataegus laevigata	Shoot	--	--		--
Crataegus laevigata	Bud	--	--		--

<b>Plant</b>	<b>Part</b>	<b>Low PPM</b>	<b>High PPM</b>	<b>StdDev</b>	<b>Reference</b>
Crataegus laevigata	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Crataegus monogyna	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Crataegus rhipidophylla	Inflorescence	--	--		--
Crataegus rhipidophylla	Flower	--	--		--
Crataegus rhipidophylla	Leaf	--	--		--
Crataegus rhipidophylla	Shoot	--	--		--
Crataegus rhipidophylla	Bud	--	--		--
Cucumis melo	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Cucumis sativus	Fruit	--	--		--
Cucurbita pepo	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Curcuma longa	Rhizome	--	5		--
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.
Cynara cardunculus	Flower	--	--		--
Cynara cardunculus	Leaf	--	--		Jim Duke's personal files.
Datura stramonium	Plant	--	--		--
Daucus carota	Root	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Digitalis purpurea	Leaf	--	--		--
Dipsacus fullonum	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Dodonaea viscosa	Plant	--	--		--
Echinacea spp	Plant	--	--		--
Elaeagnus angustifolia	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Elaeagnus angustifolia	Fruit	--	--		Kusova, R. D., Kazakov, A. L., Luk'yanchikov, M. S. 1988. Phenolic Compounds From Fruit of Elaeagnus angustifolia. Chem. Nat. Comp. 24 3: 392-393. Pyatigorsk Farm Inst Pyatigorsk USSR.
Elettaria cardamomum	Fruit	--	2	-0.3385433113198586	--
Eleutherococcus senticosus	Root	--	--		--
Equisetum arvense	Plant	--	8000	0.1792870276679914	--
Equisetum arvense	Shoot	--	--		Jim Duke's personal files.
Equisetum hyemale	Plant	--	--		--
Eriobotrya japonica	Plant	--	--		--
Erythroxylum coca	Leaf	--	--		--
Eucalyptus globulus	Leaf	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Euphorbia hirta	Plant	--	--		Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.



Plant	Part	Low PPM	High PPM	StdDev	Reference
Euphorbia pulcherrima	Plant	--	--		--
Euphrasia officinalis	Plant	--	11500	0.732750509786938	Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
Euphrasia officinalis	Shoot	--	6000	1.7085918936663076	Jim Duke's personal files.
Fagopyrum esculentum	Plant	--	--		--
Ficus carica	Plant	--	--		--
Foeniculum vulgare	Fruit	--	--		--
Foeniculum vulgare	Seed	0.5	225	-0.5557561102389081	--
Fragaria spp	Fruit	15	34	-0.3326188419425253	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	4	-0.7670730483511597	--
Harpagophytum procumbens	Root	--	--		--
Helianthus annuus	Pollen Or Spore	4	4		--
Helianthus annuus	Seed	1600	1800	0.9502356432760076	--
Helichrysum angustifolium	Plant	--	--		--
Hordeum vulgare	Seed	--	--		--
Hordeum vulgare	Fruit	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Humulus lupulus	Plant	--	--		--
Hypericum perforatum	Shoot	--	1000	-0.30167703804388507	--
Hypericum perforatum	Plant	--	1000	-0.927639936569902	--
Hyssopus officinalis	Plant	--	--		Jim Duke's personal files.
Inonotus obliquus	Plant	--	--		--
Ipomoea batatas	Root	--	--		--
Ipomoea purga	Tuber	30000	40000	1	--
Juglans nigra	Seed	--	--		--
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	Seed	1	6	-0.7651606778705059	--
Juglans regia	Testa	15	115		--
Juniperus communis	Leaf	--	--		--
Juniperus communis	Fruit	--	--		--
Kalanchoe pinnata	Plant	--	--		--
Lactuca sativa	Plant	--	--		--
Laurus nobilis	Fruit	--	--		--
Laurus nobilis	Leaf	--	--		--
Levisticum officinale	Root	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ligustrum japonicum	Flower	--	--		--
Lycopersicon esculentum	Fruit	6	6	-0.33780275264769194	--
Lycopodium clavatum	Plant	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Lycopus europeus	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
Magnolia kobus	Plant	--	--		--
Magnolia officinalis	Plant	--	--		--
Malus domestica	Fruit	85	1270	-0.10378621224302456	--
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	Plant	--	--		Pharmazie, 46: 156, 1991.
Melilotus officinalis	Shoot	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Melissa officinalis	Plant	--	2100	-0.75369427076109	--
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	-1.0832422412570573	--
Nicotiana tabacum	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum basilicum	Leaf	19000	19100	1.933822416683755	--
Ocimum basilicum	Tissue Culture	--	--		--
Oenothera biennis	Leaf	--	--		--
Olea europaea	Fruit	--	--		--
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	Shoot	--	--		--
Origanum majorana	Leaf	--	14100	1.2401706840629567	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Origanum vulgare	Leaf	106	1060	-0.568873034612085	--
Origanum vulgare	Plant	6000	6000	-0.13697781925712094	--
Origanum vulgare	Shoot	--	--		--
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.Pls Containing 2ndary Metabolite. 1991.
Persea americana	Fruit	--	--		--
Petroselinum crispum	Stem	--	--		--
Peucedanum ostruthium	Root	--	--		--
Phaseolus vulgaris	Shoot	--	--		--
Phaseolus vulgaris	Leaf	--	--		--
Phaseolus vulgaris	Fruit	--	--		--
Pimpinella anisum	Plant	--	--		--
Pimpinella anisum	Seed	2060	2060	1.1988438057610096	--
Pinus sylvestris	Leaf	--	--		--
Piper nigrum	Fruit	--	6	-0.33780275264769194	--
Pisum sativum	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Plantago major	Plant	--	--		--
Polypodium vulgare	Rhizome	--	--		--
Populus balsamifera	Essential Oil	--	--		--
Portulaca oleracea	Plant	--	--		--
Prunus armeniaca	Plant	--	--		--
Prunus cerasus	Plant	--	--		--
Prunus domestica	Plant	--	--		--
Prunus dulcis	Plant	--	--		--
Prunus laurocerasus	Plant	--	--		--
Prunus persica	Leaf	--	--		--
Prunus serotina	Plant	--	--		--
Prunus spinosa	Plant	--	--		--
Pteridium aquilinum	Plant	--	--		--
Punica granatum	Plant	--	--		--
Punica granatum	Fruit Juice	--	--		--
Punica granatum	Leaf	--	--		--
Pyrus communis	Fruit	43	19700	3.3083378697649026	--
Raphanus sativus	Root	91	91	-0.8579670121208511	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
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	8		--
Rhododendron ponticum	Plant	--	--		--
Ribes nigrum	Fruit	--	--		--
Rosa canina	Stem	--	--		--
Rosa canina	Tissue Culture	--	--		--
Rosmarinus officinalis	Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Rosmarinus officinalis	Shoot	--	--		--
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 officinalis	Shoot	--	--		--
Salvia officinalis	Inflorescence	--	--		--
Salvia sp.	Seed	306	306	-0.47830510577242674	Phenolic Compounds in Food and Their Effects on Health, 67.
Sambucus nigra	Plant	--	--		--
Sambucus simpsonii	Flower	--	--		Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. I'ORSTROM, Paris. 569 pp.
Sanguisorba minor	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
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 melongena	Fruit	--	--		--
Solanum torvum	Plant	--	--		--
Solanum tuberosum	Tuber	18	1400	-1	--
Solanum tuberosum	Tuber Epidermis	--	--		--
Solanum tuberosum	Root Bark	--	--		--
Solanum tuberosum	Flower	--	--		--
Solidago gigantea	Plant	--	21980	2.3899783076745265	--
Solidago virgaurea	Flower	--	--		--
Sophora japonica	Plant	--	--		--
Sorbus aucubaria	Fruit	--	--		--
Spartium junceum	Plant	--	--		--
Spinacia oleracea	Shoot	--	--		--



Plant	Part	Low PPM	High PPM	StdDev	Reference
Spinacia oleracea	Leaf	--	--		--
Stachys officinalis	Plant	5000	5000	-0.2951102427196771	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Stachys officinalis	Shoot	--	--		--
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	Plant	--	--		--
Taraxacum officinale	Flower	--	--		--
Taxus baccata	Leaf	0.9	4.7	-0.7152751692990306	--
Tecoma stans	Plant	--	--		--
Teucrium chamaedrys	Plant	--	--		Abstract (See species file)
Teucrium scorodonia	Leaf	20000	20000	2.0586797285554987	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 serpyllum	Plant	6200	6200	-0.10535133456460971	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus vulgaris	Leaf	16900	16900	1.6286156543306036	--
Tilia sp.	Flower	--	--		--
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.
Trifolium pratense	Leaf	--	--		--
Triticum aestivum	Seed	3	4	-0.7670730483511597	--
Urtica dioica	Plant	--	--		--
Urtica dioica	Leaf	--	--		Jim Duke's personal files.
Vaccinium corymbosum	Plant	--	--		--
Vaccinium myrtillus	Leaf	40	40	-0.7103779880667277	--
Vaccinium myrtillus	Fruit	--	--		--
Vaccinium myrtillus	Fruit Juice	--	--		--
Vaccinium vitis-idaea	Leaf	--	--		--
Valeriana officinalis	Plant	--	--		--
Valeriana officinalis	Root	--	5800	1.5698864543151345	--
Verbena officinalis	Leaf	10000	10000	0.6713762633139022	--
Viburnum opulus	Branches	--	--		--
Vicia faba	Plant	--	--		--
Viscum album	Plant	--	--		--

<b>Plant</b>	<b>Part</b>	<b>Low PPM</b>	<b>High PPM</b>	<b>StdDev</b>	<b>Reference</b>
Vitis vinifera	Fruit	--	--		--
Vitis vinifera	Leaf	--	--		--
Vitis vinifera	Root	--	--		--
Zea mays	Shoot	0.7	0.7	-0.7034493867354843	--
Zea mays	Sprout Seedling	--	--		--
Zingiber officinale	Rhizome	--	--		--