

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for CITRIC-ACID

Plant	Part	Low PPM	High PPM	StdDev	Reference
Aconitum napellus	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Adonis vernalis	Plant				--
Aesculus hippocastanum	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Allium cepa	Bulb				Soldatenkov, S. V., Mazurova, T. A., Ranteleev, A. N. 1960. Organic Acids of Onion and Spinach. Trudy Petergof Biol. Inst., Leningrad Gosudarst Univ Im AA Zhdanova, 18: 55-61.
Allium cepa	Leaf				Soldatenkov, S. V., Mazurova, T. A., Ranteleev, A. N. 1960. Organic Acids of Onion and Spinach. Trudy Petergof Biol. Inst., Leningrad Gosudarst Univ Im AA Zhdanova, 18: 55-61.
Allium schoenoprasum	Leaf				--
Alocasia macrorrhiza	Plant				--
Anabasis aphylla	Plant				--
Ananas comosus	Fruit	3200.0	86000.0	0.7561189975512667	--
Annona muricata	Plant				--
Annona squamosa	Plant				--
Apium graveolens	Root				--
Apium graveolens	Pt				--
Arctostaphylos uva-ursi	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Avena sativa	Hull Husk				--
Avena sativa	Petiole				--
Averrhoa carambola	Fruit		13200.0	-0.4355868046342097	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Berberis vulgaris	Plant				--
Beta vulgaris	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Brassica oleracea var. botrytis l.	Flower				--
Brassica oleracea var. sabellica l.	Leaf				--
Brassica oleracea var. capitata l.	Leaf				Jim Duke's personal files.
Brassica oleracea var. gemmifera	Leaf				--
Brassica oleracea	Stem				--
Brassica oleracea var. botrytis l.	Plant				--
Brassica oleracea var. italica	Plant				Jim Duke's personal files.
Capparis spinosa	Plant				--
Capsella bursa-pastoris	Plant				--
Capsicum frutescens	Fruit				--
Capsicum annuum	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Carica papaya	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Catalpa ovata	Fruit				--
Cephaelis ipecacuanha	Plant				--
Chaenomeles lagenaria	Fruit				--
Chelidonium majus	Plant				--
Cichorium intybus	Plant				--
Citrus sinensis	Fruit	5600.0	9800.0	-0.4912433942967182	--
Citrus aurantiifolia	Fruit		800.0	-0.6385696610504172	--
Citrus limon	Fruit Juice				Jim Duke's personal files.
Citrus aurantium	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Citrus reticulata	Fruit	8600.0	12200.0	-0.4519563898290651	--
Citrus mitis	Fruit	28100.0	281000.0	3.9481881105480787	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Citrus aurantium	Fruit				Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
Citrus paradisi	Fruit	11900.0	21000.0	-0.3079040401143372	--
Citrus limon	Fruit		59500.0	0.3223249898875974	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Citrus mitis	Fruit Juice	36000.0	55200.0	1.0	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Cocos nucifera	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Coffea arabica	Seed				--
Convallaria majalis	Plant				--
Crataegus rhipidophylla	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
Crataegus laevigata	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
Cryptostegia grandifolia	Latex Exudate				--
Cucumis melo	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Datura stramonium	Plant		750.0	-0.598323519019182	--
Daucus carota	Root				--
Digitalis purpurea	Leaf				--
Equisetum arvense	Plant				Jim Duke's personal files.
Eriobotrya japonica	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Euonymus atropurpureus</i>	Plant				--
<i>Euphorbia tirucalli</i>	Plant		74000.0	1.9965372132576142	--
<i>Fagopyrum esculentum</i>	Leaf		8200.0	-0.2128427556455255	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ficus carica</i>	Fruit	1000.0	4400.0	-0.5796391543489376	--
<i>Filipendula ulmaria</i>	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Foeniculum vulgare</i>	Seed				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Foeniculum vulgare</i>	Fruit				--
<i>Fragaria</i> spp	Fruit	3500.0	8000.0	-0.520708647647458	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Galium odoratum</i>	Plant				--
<i>Garcinia mangostana</i>	Fruit	4200.0	27815.0	-0.19634531701139735	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Ginkgo biloba</i>	Pollen Or Spore				Jim Duke's personal files.
<i>Ginkgo biloba</i>	Seed				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
<i>Glycine max</i>	Seed	8000.0	13000.0	1.2210504417777566	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Helianthus annuus</i>	Seed		1900.0	-1.228406167330634	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Hibiscus sabdariffa</i>	Fruit	37400.0	170000.0	2.131164153919124	--
<i>Hibiscus sabdariffa</i>	Flower	6233.0	56667.0		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hippophae rhamnoides	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Juglans regia	Fruit				--
Juniperus communis	Leaf				--
Kalanchoe pinnata	Leaf				--
Lactuca scariola	Latex Exudate				--
Lactuca sativa	Leaf		500.0	-0.6163112978588554	--
Lactuca virosa	Plant				--
Ledum palustre	Plant				--
Leonurus cardiaca	Plant				--
Lupinus albus	Seed				--
Lycopersicon esculentum	Fruit				--
Malus domestica	Plant				--
Mammea americana	Fruit		6000.0	-0.5534478180371689	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Mangifera indica	Fruit				--
Medicago sativa	Plant				--
Morus alba	Plant				--
Musa x paradisiaca	Fruit				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
Myrciaria dubia	Fruit				Jim Duke's personal files.
Myrtus communis	Fruit				--
Nicotiana tabacum	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Opuntia ficus-indica	Leaf		310.0	-0.6262670151342493	--
Opuntia ficus-indica	Fruit	475.0	4560.0	-0.5770200207177607	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Panax quinquefolius	Plant		3000.0	-0.5186178992564134	--
Panax ginseng	Root				--
Papaver somniferum	Latex Exudate				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Paris quadrifolia	Plant				--
Passiflora edulis	Fruit	20000.0	45600.0	0.09478775567910673	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Petroselinum crispum	Root				--
Physalis ixocarpa	Fruit	8010.0	11690.0	-0.4603048782784414	--
Physalis peruviana	Fruit		22000.0	-0.29153445491948177	--
Piscidia piscipula	Plant				--
Pisum sativum	Seed				--
Plantago major	Plant				--
Polypodium vulgare	Root				--
Portulaca oleracea	Plant		5100.0	-0.4442259874778297	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6. Springer-Verlag, Berlin, 1969-1979.
Prunus domestica	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Prunus cerasus	Fruit				--
Prunus persica	Fruit				--
Prunus armeniaca	Fruit				--
Psidium guajava	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6. Springer-Verlag, Berlin, 1969-1979.
Punica granatum	Fruit Juice	8100.0	12300.0	-1.0	--
Pyrus communis	Fruit				--
Quisqualis indica	Fruit				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rheum rhabarbarum	Pt				--
Rhododendron ferrugineum	Leaf				--
Ribes rubrum	Fruit		20200.0	-0.32099970827022156	--
Ribes nigrum	Fruit		35000.0	-0.07872984738636099	--
Ribes uva-crispa	Fruit		8800.0	-0.5076129794915737	--
Rosa laevigata	Fruit				--
Rosa canina	Fruit		15000.0	-0.4061215512834699	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosa canina	Seed				--
Rosa spp	Fruit				--
Rubus chingii	Fruit				--
Rubus idaeus	Fruit				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Sambucus nigra	Fruit	500.0	7340.0	-0.5315125738760625	--
Schisandra chinensis	Plant				--
Schisandra chinensis	Fruit	5000.0	33333.0	-0.10601794590618502	--
Sclerocarya caffra	Fruit				--
Solanum sessiliflorum	Fruit	8000.0	80000.0	0.6579014863821341	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Solanum tuberosum	Tuber		2000.0		--
Solanum nigrum	Leaf		50000.0	1.9774150449411227	--
Sophora pachycarpa	Plant				--
Sorbus aucubaria	Fruit				--
Spinacia oleracea	Leaf		2300.0	-0.5219939763024926	Soldatenkov, S. V., Mazurova, T. A., Ranteleev, A. N. 1960. Organic Acids of Onion and Spinach. Trudy Petergof Biol. Inst., Leningrad Gosudarst Univ Im AA Zhdanova, 18: 55-61.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Stevia rebaudiana</i>	Plant		5350.0	-0.43536980750418874	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
<i>Tamarindus indica</i>	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Theobroma cacao</i>	Seed	4500.0	7500.0	0.007355725552878182	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Urtica dioica</i>	Plant				--
<i>Vaccinium vitis-idaea</i>	Fruit				--
<i>Vaccinium macrocarpon</i>	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Vaccinium myrtillus</i>	Fruit				--
<i>Vaccinium myrtillus</i>	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Vanilla planifolia</i>	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Viburnum prunifolium</i>	Root Bark				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Viburnum opulus</i>	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Vicia faba</i>	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Vitis vinifera</i>	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
Vitis vinifera	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Zizyphus jujuba	Fruit	4000.0	12000.0	-0.4552303068680362	--