

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for PALMITIC-ACID

Plant	Part	Low PPM	High PPM	StdDev	Reference
Abelmoschus moschatus	Plant				--
Abelmoschus esculentus	Seed	33920.0	66440.0	0.6712717296107207	--
Abelmoschus moschatus	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Abrus precatorius	Seed		300.0	-0.6934110761449042	Wealth of India.
Abutilon theophrasti	Seed		19595.0	-0.2952926192798484	Wealth of India.
Acacia farnesiana	Seed	2400.0	9500.0	-0.503585224724406	--
Acacia farnesiana	Flower				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Acanthopanax gracilistylis	Plant				--
Achillea millefolium	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Achillea moschata	Plant				--
Acorus calamus	Plant				--
Acorus calamus	Rhizome				--
Actaea racemosa	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.
Adansonia digitata	Seed	40800.0	98940.0	1.34185218299835	Wealth of India.
Adonis vernalis	Plant				--
Aesculus hippocastanum	Seed		1245.0	-0.6739126598848639	--
Aesculus hippocastanum	Leaf				Jim Duke's personal files.
Ageratum conyzoides	Seed		42315.0	0.17349470074990356	Wealth of India.
Agrimonia eupatoria	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ajuga bracteosa	Plant				Wealth of India.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Akebia quinata	Seed				--
Aleurites fordii	Seed	12000.0	24000.0	-0.2044031762899251	--
Aleurites moluccana	Seed	31350.0	37950.0	0.08343058754876502	Wealth of India.
Alisma plantago-aquatica	Plant				--
Alliaria petiolata	Plant		8800.0	-0.48829007625413884	--
Allium ampeloprasum	Plant				--
Allium cepa	Seed		13140.0	-0.4284802139449916	Wealth of India.
Allium schoenoprasum	Leaf	910.0	11375.0	-0.16964007288800279	USDA's Ag Handbook 8 and sequelae)
Allium cepa	Seed Oil		73000.0	-0.723771059427567	--
Allium sativum var. sativum	Bulb	400.0	3600.0	1.0	--
Allium cepa	Bulb	240.0	2325.0	-1.0	--
Aloe vera	Juice				Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.
Althaea officinalis	Seed	12415.0	16685.0	-0.3553353614139409	Wealth of India.
Ammi majus	Plant				--
Ammi visnaga	Seed				--
Amphicarpaea bracteata	Seed	5150.0	16640.0	-0.35626385742632377	--
Anacardium occidentale	Seed	34600.0	44262.0	0.21366762821900245	--
Anamirta cocculus	Seed	6710.0	10980.0	-0.4730480225393694	--
Ananas comosus	Fruit	190.0	1407.0	-0.34363159570129753	USDA's Ag Handbook 8 and sequelae)
Anethum graveolens	Seed	5800.0	6281.0	-0.5700036394768608	USDA's Ag Handbook 8 and sequelae)
Anethum graveolens	Fruit	5800.0	6281.0	-0.26775372349168214	--
Anethum graveolens	Plant				--
Angelica sinensis	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Angelica archangelica	Fruit				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Angelica archangelica	Root Essent. Oil		60000.0	-0.14585513924522536	--
Angelica archangelica	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Annona reticulata	Plant				--
Annona cherimola	Seed	25200.0	32500.0	-0.029020596173160516	--
Annona cherimola	Fruit	235.0	3500.0	-0.3110480120872793	--
Anthriscus cerefolium	Seed		6500.0	-0.5654849588832641	--
Apium graveolens	Seed	9470.0	32760.0	-0.02365595254605948	--
Apium graveolens	Pt	280.0	5970.0		USDA's Ag Handbook 8 and sequelae)
Apium graveolens	Essential Oil				--
Aquilegia vulgaris	Seed		21520.0	-0.25557362319458116	--
Arachis hypogaea	Seed	51450.0	60615.0	0.551083079118938	--
Arctium lappa	Fruit	10500.0	12600.0	-0.16938025724372155	Wealth of India.
Arctium lappa	Root				Jim Duke's personal files.
Argemone mexicana	Seed				--
Arnica montana	Flower				--
Artemisia capillaris	Essential Oil				--
Artemisia absinthium	Plant				--
Asclepias syriaca	Seed	3640.0	12720.0	-0.4371461767272317	--
Asiasarum sieboldii	Root				--
Asimina triloba	Fruit	1080.0	14396.0	-0.14142033551855346	--
Asparagus officinalis	Shoot	450.0	5806.0	1.4142135623730951	--
Azadirachta indica	Fruit	63000.0	71550.0	0.7483465722098749	--
Bactris gasipaes	Seed		32550.0	-0.027988933937179546	--
Bactris gasipaes	Fruit	11400.0	71400.0	0.7460113894377283	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Balanites aegyptiacus	Seed	57000.0	104500.0	1.4565730236394336	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Benincasa hispida	Fruit	110.0	2820.0	-0.321634173987677	--
Bertholletia excelsa	Seed	87630.0	113400.0	1.640208901644046	--
Beta vulgaris	Root	210.0	1656.0	-0.32320450211702656	USDA's Ag Handbook 8 and sequelae)
Bidens pilosa	Plant				Jim Duke's personal files.
Bixa orellana	Seed	660.0	4225.0	-0.6124255906203983	Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.
Borago officinalis	Seed	15600.0	46600.0	0.26190815437347253	--
Boronia megastigma	Flower				--
Boswellia serrata	Essential Oil				--
Brassica rapa	Root	100.0	1230.0	-0.34362996359528225	--
Brassica oleracea var. capitata l.	Leaf	190.0	2540.0	-0.34161769750550813	USDA's Ag Handbook 8 and sequelae)
Brassica nigra	Leaf	60.0	884.0	-0.3738525527818623	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea	Stem	110.0	1220.0		--
Brassica rapa	Leaf	220.0	4701.0	-0.29955276860925134	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. sabellica l.	Leaf	760.0	4890.0	-0.29587379056140656	--
Brassica oleracea var. gemmifera	Leaf	530.0	3784.0	-0.3174026250636093	USDA's Ag Handbook 8 and sequelae)
Brassica napus var. napobrassica	Root	240.0	2320.0	-0.291367632582844	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. italica	Leaf	470.0	5048.0	-0.2927982427753776	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. viridis l.	Plant				--
Brassica oleracea var. botrytis l.	Flower	240.0	3100.0	0.13966281921675727	--
Brassica oleracea var. botrytis l.	Leaf	470.0	5048.0	-0.2927982427753776	--
Brassica chinensis	Leaf	220.0	4701.0	-0.29955276860925134	--
Bryonia alba	Root				--
Cajanus cajan	Seed	3070.0	9642.0	-0.5006553039742201	--
Calendula officinalis	Seed	38900.0	67000.0	0.6828263466537076	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Calotropis sp.	Seed	39900.0	54900.0	0.43316408554631325	--
Camellia sinensis	Seed Oil				--
Camellia sinensis	Leaf				--
Canarium indicum	Seed		222162.0	3.8843218638392867	--
Capparis spinosa	Plant				--
Capparis spinosa	Seed	11060.0	16200.0	-0.3653424851029563	Wealth of India.
Capparis spinosa	Flower		1123.0	-1.0985138336600548	--
Capsicum frutescens	Resin, Exudate, Sap				--
Capsicum frutescens	Fruit	150.0	1224.0	-0.34648051868331636	USDA's Ag Handbook 8 and sequelae)
Capsicum annuum	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Capsicum frutescens	Seed				--
Capsicum annuum	Fruit	500.0	6820.0	-0.2593626333971022	--
Carapa guianensis	Seed	55000.0	65000.0	0.6415598572144688	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Carica papaya	Flower				Jim Duke's personal files.
Carica papaya	Seed	28791.0	30107.0	-0.07839595078720965	--
Carica papaya	Leaf				Jim Duke's personal files.
Carica papaya	Fruit	320.0	2865.0	-0.320933619156033	--
Carica papaya	Seed Oil	162000.0	190000.0	0.05419140224469152	Jim Duke's personal files.
Carthamus tinctorius	Seed	6000.0	18780.0	-0.3121087137263382	--
Carum carvi	Fruit	2000.0	6658.0	-0.2618846307910205	--
Carum carvi	Seed	2000.0	9000.0	-0.5139018470842157	--
Carya illinoensis	Leaf				--
Cassia tora	Seed	2211.0	4958.0	-0.5973014222409172	--
Caulophyllum thalictroides	Root				Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ceiba pentandra	Seed	19540.0	64000.0	0.6209266124948495	--
Centaurea calcitrapa	Plant				--
Centaureum erythraea	Plant				--
Centella asiatica	Plant				--
Ceratonia siliqua	Seed	155.0	1405.0	-0.6706113407297248	Wealth of India.
Chrysanthemum x morifolium	Flower				Wealth of India.
Cicer arietinum	Seed	5010.0	5665.0	-0.5827137182241463	USDA's Ag Handbook 8 and sequelae)
Cichorium endivia	Leaf	410.0	6602.0	-0.26254886771532066	--
Cichorium intybus	Root	410.0	2050.0	-0.30431334760427364	USDA's Ag Handbook 8 and sequelae)
Cichorium intybus	Leaf	210.0	4284.0	-0.3076698789052898	USDA's Ag Handbook 8 and sequelae)
Cichorium intybus	Seed				--
Cimicifuga racemosa	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.
Cinnamomum verum	Seed	5400.0	6300.0	-0.569611607827188	Wealth of India.
Citrullus lanatus	Seed	15200.0	55000.0	0.4352274100182752	--
Citrullus lanatus	Cotyledon		206300.0	-1.727557853929548	--
Citrullus colocynthis	Seed				--
Citrus paradisi	Fruit	120.0	1320.0	-0.34498600170914256	USDA's Ag Handbook 8 and sequelae)
Citrus aurantiifolia	Fruit	10.0	85.0	-0.36421233986648255	USDA's Ag Handbook 8 and sequelae)
Citrus reticulata	Seed Oil				--
Citrus sinensis	Fruit	130.0	982.0	-0.35024794688904615	USDA's Ag Handbook 8 and sequelae)
Citrus aurantium	Plant				--
Citrus reticulata	Fruit	200.0	1612.0	-0.3404401792460306	USDA's Ag Handbook 8 and sequelae)
Cocos nucifera	Seed	4380.0	75495.0	0.858105760546874	--
Coffea arabica	Seed		23680.0	-0.21100581460020332	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Coix lacryma-jobi	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Colocasia esculenta	Root	350.0	1190.0	-0.34554784730216076	--
Colocasia esculenta	Leaf	1310.0	9135.0	-0.2132427756772741	--
Commiphora myrrha	Essential Oil				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Corchorus olitorius	Leaf	300.0	2440.0	-0.34356424673717206	--
Corchorus olitorius	Seed	19000.0	25000.0	-0.18376993157030574	--
Coriandrum sativum	Fruit	2160.0	16800.0	-0.10399513962361799	--
Coriandrum sativum	Seed Essent. Oil		58200.0		--
Corylus avellana	Seed	15500.0	65000.0	0.6415598572144688	--
Crataegus rhipidophylla	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Crataegus laevigata	Bark				--
Crataegus rhipidophylla	Bark				--
Crataegus laevigata	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Crocus sativus	Silk Stigma Style				--
Croton tiglium	Seed	2700.0	4500.0	-0.6067514483225028	--
Cryptostegia grandifolia	Seed		9340.0	-0.5068865438795451	--
Cryptotaenia japonica	Shoot				--
Cucumis sativus	Seed	12420.0	20400.0	-0.2786828572805548	--
Cucumis melo	Seed	9600.0	58400.0	0.505380442064981	--
Cucumis sativus	Fruit	270.0	6835.0	-0.2591291151198875	--
Cucumis melo	Cotyledon	122000.0	532300.0	0.675103666467349	--
Cucumis sativus	Cotyledon	213200.0	504700.0	0.47168815124356256	--
Cucurbita pepo	Fruit	370.0	4405.0	-0.29695907602866173	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cucurbita foetidissima	Seed	14823.0	48140.0	0.2936833512416864	--
Cucurbita pepo	Flower	260.0	5360.0	1.5550797314583331	USDA's Ag Handbook 8 and sequelae)
Cucurbita spp	Fruit	380.0	6015.0	-0.27189478094095537	--
Cucurbita maxima	Seed		44360.0	0.21568968620152515	--
Cucurbita pepo	Seed	44800.0	64530.0	0.6318622321962477	--
Cyamopsis tetragonoloba	Seed Oil		179000.0	-0.01895036765611912	Varade, P. B., Misra, B. K., Sikka, K. C., Singh, S. P. 1984. Nutritive Assessment of Guar Oil (Cyamopsis tetragonoloba L. Taub). J Agr Food Chem, 32(5): 1073-1075.
Cynara cardunculus	Flower	290.0	1925.0	-0.5962287170150354	USDA's Ag Handbook 8 and sequelae)
Datura stramonium	Seed	15000.0	30000.0	-0.08060370797220892	--
Daucus carota	Seed	3265.0	11500.0	-0.4623187352851673	--
Daucus carota	Root	230.0	1885.0	-0.3122246178951473	--
Dioscorea pentaphylla	Root	200.0	1080.0	-0.35082202749607655	--
Diospyros virginiana	Fruit				--
Dipsacus fullonum	Seed	4200.0	5660.0	-0.5828168844477444	--
Dipteryx odorata	Seed		1525.0	-0.6681353513633704	--
Dodonaea viscosa	Seed	8580.0	24900.0	-0.1858332560422677	--
Echinacea spp	Root				Economic & Medicinal Plant Research, 5: 253.
Echinacea angustifolia	Root				--
Elaeagnus angustifolia	Seed		1145.0	-0.6759759843568258	Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
Elaeis oleifera	Fruit	94540.0	163000.0	2.172029668961892	--
Elaeis guineensis	Fruit	148580.0	384930.0	5.627010419778459	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Elettaria cardamomum	Seed	5828.0	8400.0	-0.5262817939159874	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Elettaria cardamomum	Fruit	840.0	6195.0	-0.2690925616143795	Revised USDA data received 1993.
Elettaria cardamomum	Seed Oil				--
Eriobotrya japonica	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Eruca sativa	Seed	9000.0	18250.0	-0.3230443334277365	--
Erythrina crista-galli	Seed		19000.0	-0.30756939988802195	--
Erythroxylum coca	Leaf				--
Eucalyptus globulus	Fruit				--
Eucommia ulmoides	Seed Oil		47000.0	-0.8966516064658467	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Euphorbia hirta	Plant				--
Fagopyrum esculentum	Seed	2574.0	3120.0	-0.6352253260355776	--
Fagopyrum esculentum	Pollen Or Spore				--
Ficus carica	Seed	12552.0	15690.0	-0.3758654399099622	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ficus carica	Leaf				--
Ficus carica	Fruit	460.0	2202.0	-0.3312551270089208	USDA's Ag Handbook 8 and sequelae)
Foeniculum vulgare	Fruit	4000.0	6000.0	-0.27212829921817	--
Foeniculum vulgare	Seed	4000.0	6000.0	-0.5758015812430738	--
Fragaria spp	Fruit	140.0	1661.0	-0.339677352873796	USDA's Ag Handbook 8 and sequelae)
Fucus vesiculosus	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Ganoderma lucidum	Tissue Culture				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ganoderma lucidum	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Ganoderma lucidum	Fruit				--
Ginkgo biloba	Seed	2880.0	6422.0	-0.5670943519713945	--
Ginkgo biloba	Leaf		251000.0	4.4947785234866116	Jim Duke's personal files.
Ginkgo biloba	Fruit				Jim Duke's personal files.
Ginkgo biloba	Pollen Or Spore				Jim Duke's personal files.
Glechoma hederacea	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
Glycine max	Seed	14895.0	26862.0	-0.1453508299023745	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Glycine max	Sprout Seedling				--
Glycyrrhiza glabra	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Gossypium sp	Plant	31840.0	48438.0	2.024129383210386	--
Harpagophytum procumbens	Tuber				--
Hedera helix	Seed		17550.0	-0.33748760473147	--
Helianthus annuus	Seed	14250.0	32000.0	-0.039337218532970196	--
Hibiscus sabdariffa	Seed				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Hippophae rhamnoides	Fruit		1040.0	-0.3493450095504828	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Hippophae rhamnoides	Bark		5720.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Hippophae rhamnoides	Seed	5060.0	6610.0	-0.563215301964106	--
Holarrhena pubescens	Seed	10640.0	16800.0	-0.3529625382711847	--
Hordeum vulgare	Leaf				--
Hordeum vulgare	Seed	370.0	4070.0	-0.6156237435519392	Jim Duke's personal files.*

Plant	Part	Low PPM	High PPM	StdDev	Reference
Houttuynia cordata	Shoot				--
Houttuynia cordata	Root				--
Houttuynia cordata	Essential Oil				--
Houttuynia cordata	Shoot Essent. Oil				--
Hydnocarpus wightiana	Seed		11385.0	-0.46469155842792353	--
Hydnocarpus kurzii	Seed	12000.0	20000.0	-0.2869361551684026	--
Hyoscyamus niger	Seed	16250.0	25285.0	-0.17788945682521423	--
Hypericum perforatum	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ipomoea batatas	Root	580.0	2135.0	-0.3002378447271569	--
Iris x germanica	Rhizome				--
Iris versicolor	Rhizome				--
Jatropha curcas	Seed	39900.0	65325.0	0.6482656617483451	--
Juglans nigra	Seed	21260.0	22230.0	-0.24092401944365138	USDA's Ag Handbook 8 and sequelae)
Juglans nigra	Seed Oil				--
Juglans regia	Seed	12000.0	49070.0	0.31287226883093233	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Juglans cinerea	Seed	8720.0	9021.0	-0.5134685489451037	--
Juniperus communis	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Juniperus communis	Plant				--
Lablab purpureus	Seed	560.0	4617.0	-0.6043373586903074	--
Lactuca scariola	Leaf	14080.0	52800.0	0.6367179463287668	--
Lactuca sativa	Leaf	350.0	5833.0	-0.277517831306816	--
Lagenaria siceraria	Fruit	10.0	225.0	-0.3620328359458124	--
Laurus nobilis	Fruit	20000.0	60500.0	0.5763214413284119	--
Lawsonia inermis	Oil	90700.0	91000.0		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lawsonia inermis	Seed	5080.0	11085.0	-0.4708815318438094	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Lens culinaris	Sprout Seedling	520.0	1733.0	-1.0512344394419888	USDA's Ag Handbook 8 and sequelae)
Lens culinaris	Seed	1160.0	1300.0	-0.6727778314252848	USDA's Ag Handbook 8 and sequelae)
Lentinus edodes	Fruit				--
Leonotis nepetaefolia	Seed	33600.0	45600.0	0.24127490965385318	--
Lepidium sativum	Seed	2020.0	3240.0	-0.6327493366692233	--
Lepidium sativum	Leaf	160.0	1510.0	-0.3616671545916463	--
Lepidium meyenii	Root		5.0	-0.4023651521184354	--
Levisticum officinale	Root				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Ligustrum lucidum	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Ligustrum japonicum	Seed				--
Linum usitatissimum	Seed Oil		90000.0	-0.6107337786717688	--
Linum usitatissimum	Seed	19005.0	22515.0	-0.23504354469855987	Cunane, S. and Thompson, L. U., eds. 1995. Flaxseed in Human Nutrition. AOCS Press, Champaign IL. 384 pp.
Luffa aegyptiaca	Fruit	110.0	2200.0	-0.3312862627792161	--
Luffa aegyptiaca	Seed	18000.0	40500.0	0.1360453615837944	--
Lupinus albus	Seed	7420.0	8275.0	-0.5288609495059398	--
Lycopersicon esculentum	Fruit	210.0	3471.0	-0.3114994807565609	--
Lycopodium clavatum	Pollen Or Spore				--
Macadamia spp	Seed	67120.0	71300.0	0.7715492989480708	--
Maclura pomifera	Fruit				--
Malus domestica	Fruit	480.0	2986.0	-0.31904990505316816	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Malus domestica	Seed				Fathy, M. M., Abd El Megid, R. M. 1995. A Comparative Study of the Lipid Contents and the Antimicrobial Activity of Certain Rosaceous Seeds. Zagazig J Pharm Sci, 4(2): 121-127.
Mangifera indica	Fruit	520.0	2843.0	-0.3212761126292812	--
Manihot esculenta	Root	950.0	3015.0	-0.2580444031758306	--
Matricaria recutita	Plant				--
Medicago sativa	Seed				--
Medicago sativa	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Medicago sativa	Seed Oil				--
Melia azedarach	Seed		22800.0	-0.22916306995346836	--
Mentha x piperita	Leaf	1760.0	8245.0	-0.2305670638390828	USDA's Ag Handbook 8 and sequelae)
Mentha spicata	Leaf	1370.0	9480.0	-0.20652718082803365	USDA's Ag Handbook 8 and sequelae)
Mentha pulegium	Essential Oil				--
Mimosa pudica	Seed	2090.0	14790.0	-0.3944353601576196	--
Momordica charantia	Seed Oil				Jim Duke's personal files.
Momordica charantia	Fruit				Jim Duke's personal files.
Momordica charantia	Cotyledon	27100.0	519500.0	0.5807660362186364	Jim Duke's personal files.
Morinda citrifolia	Fruit		0.21	-0.3655323408481512	--
Moringa oleifera	Seed	6000.0	60000.0	0.538393633616372	--
Mucuna pruriens	Seed	1365.0	33830.0	-0.0015783806960667605	--
Murraya sp	Plant				--
Murraya koenigii	Leaf		885.0	-0.3738330872895457	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Musa x paradisiaca	Fruit	1250.0	4856.0	-0.28993795982707443	USDA's Ag Handbook 8 and sequelae)
Musa x paradisiaca	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Myrica cerifera	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Myristica fragrans	Seed	25000.0	128000.0	1.9414542745504888	--
Myristica fragrans	Seed Essent. Oil				--
Myrtus communis	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Nardostachys chinensis	Root				--
Nelumbo nucifera	Seed	770.0	2333.0	-0.6514636896299181	--
Nelumbo nucifera	Rhizome	280.0	1340.0	-1.0	--
Nepeta cataria	Seed Oil				--
Nerium oleander	Seed				--
Nicotiana tabacum	Seed	57500.0	140000.0	2.189053211185921	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Nigella sativa	Seed	22464.0	50523.0	0.3428523734085393	--
Nigella sativa	Seed Oil	120000.0	171200.0	-0.07081453176760302	--
Ocimum tenuiflorum	Seed		10700.0	-0.47882533106086284	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum sanctum	Seed		10700.0	-0.47882533106086284	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum basilicum	Seed		16940.0	-0.350073884010438	--
Oenanthe javanica	Root				--
Oenothera biennis	Seed	7500.0	31590.0	-0.047796848868014136	--
Oenothera biennis	Seed Oil	17000.0	86000.0	-0.6373307859084272	--
Olea europaea	Fruit	14250.0	52470.0	0.45131132359283294	--
Opuntia ficus-indica	Seed Oil		120000.0	-0.4112562243968307	--
Opuntia ficus-indica	Seed	6480.0	21840.0	-0.24897098488430294	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Opuntia ficus-indica	Flower				--
Origanum vulgare	Plant	17000.0	18309.0	0.11442945147299585	USDA's Ag Handbook 8 and sequelae)
Oryza sativa	Seed	1800.0	3240.0	-0.6327493366692233	--
Pachira aquatica	Seed	266800.0	324800.0	6.002076835371579	--
Pachyrhizus erosus	Seed				--
Paeonia lactiflora	Root				Economic & Medicinal Plant Research, 1: 53.
Panax quinquefolius	Root				--
Panax ginseng	Leaf Essent. Oil		160000.0		--
Panax ginseng	Plant				--
Panax ginseng	Root				--
Panax ginseng	Stem Essent. Oil		160000.0		--
Panax quinquefolius	Root Essent. Oil	6543.0	41917.0	-1.1452861672753163	--
Panax quinquefolius	Plant		30.0	-1.0441687446910903	--
Panax ginseng	Root Essent. Oil		86000.0	1.2911413065205417	--
Papaver somniferum	Seed	38630.0	46620.0	0.26232081926786494	--
Papaver somniferum	Seed Oil				--
Papaver bracteatum	Seed	34650.0	37920.0	0.08281159020717645	--
Papaver somniferum	Latex Exudate				--
Passiflora incarnata	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.
Passiflora edulis	Seed		15595.0	-0.377825598158326	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Pastinaca sativa	Seed	1730.0	2880.0	-0.6401773047682863	--
Pastinaca sativa	Root	300.0	1730.0	-0.3196564172593014	--
Persea americana	Fruit	4270.0	266000.0	3.7755218391691936	--
Petasites hybridus	Root				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Petiveria alliacea</i>	Leaf				Germosen-Robineau, L. (Ed.) 1997. <i>Farmacopea Vegetal Caribena</i> . Endacaribe, Tramil. Ediciones Emile Desormeaux, Martinique F.W.I. 360 pp.
<i>Petroselinum crispum</i>	Fruit Essent. Oil		5000.0		--
<i>Petroselinum crispum</i>	Seed		5000.0	-0.5964348259626931	Leung, A.Y., <i>Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics</i> , John Wiley & Sons, New York, 1980.
<i>Peucedanum ostruthium</i>	Plant				--
<i>Phaseolus vulgaris</i>	Sprout Seedling	640.0	6882.0	1.3448727445716455	USDA's Ag Handbook 8 and sequelae)
<i>Phaseolus lunatus</i>	Seed	1180.0	5813.0	-0.579659980056426	--
<i>Phaseolus vulgaris</i>	Seed	3430.0	3855.0	-0.6200598911666574	USDA's Ag Handbook 8 and sequelae)
<i>Phaseolus vulgaris</i>	Fruit	220.0	2261.0	-0.33033662178520984	USDA's Ag Handbook 8 and sequelae)
<i>Phoenix dactylifera</i>	Seed	15000.0	25000.0	-0.18376993157030574	--
<i>Phyllanthus emblica</i>	Seed		4785.0	-0.6008709735774114	ANON. 1948-1976. <i>The Wealth of India raw materials</i> . Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Phyllanthus emblica</i>	Seed Oil				--
<i>Physalis peruviana</i>	Seed		4160.0	-0.6137667515271734	--
<i>Physostigma venenosum</i>	Seed				--
<i>Picrasma quassioides</i>	Seed				--
<i>Pimpinella anisum</i>	Seed	2560.0	9730.0	-0.4988395784388936	--
<i>Pinellia ternata</i>	Tuber				--
<i>Pinus edulis</i>	Seed	44160.0	46930.0	0.2687171251309469	USDA's Ag Handbook 8 and sequelae)
<i>Pinus walliciana</i>	Seed		15350.0	-0.38288074311463277	ANON. 1948-1976. <i>The Wealth of India raw materials</i> . Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pinus gerardiana</i>	Seed	11850.0	20000.0	-0.2869361551684026	ANON. 1948-1976. <i>The Wealth of India raw materials</i> . Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pinus pinea</i>	Seed	36720.0	39350.0	0.11231713015623214	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pinus sylvestris	Pollen Or Spore				--
Piper nigrum	Fruit	12200.0	13633.0	-0.1532986318862056	USDA's Ag Handbook 8 and sequelae)
Pistacia vera	Seed	38540.0	55643.0	0.44849458637299044	--
Pisum sativum	Fruit	330.0	3264.0	-0.3147220329821232	--
Pisum sativum	Seed	640.0	3027.0	-0.6371442177945023	--
Plantago ovata	Seed	1300.0	5500.0	-0.5861182036028835	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Plantago asiatica	Seed				--
Plantago psyllium	Seed				--
Plantago ovata	Seed Coat				--
Portulaca oleracea	Herb	616.0	18966.0		--
Prunus domestica	Fruit	410.0	2770.0	-0.3224125682450592	USDA's Ag Handbook 8 and sequelae)
Prunus armeniaca	Fruit	240.0	1760.0	-0.3381361322441793	USDA's Ag Handbook 8 and sequelae)
Prunus persica	Seed				--
Prunus dulcis	Seed	19950.0	48980.0	0.31101527680616664	--
Prunus cerasus	Seed	12900.0	17200.0	-0.3447092403833368	--
Prunus persica	Fruit	90.0	730.0	-0.3541710539462523	--
Prunus africana	Bark				--
Prunus domestica	Seed	2340.0	2520.0	-0.6476052728673493	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Prunus cerasus	Fruit	480.0	3456.0	-0.3117329990337756	--
Prunus laurocerasus	Seed	2475.0	2970.0	-0.6383203127435205	--
Psidium guajava	Fruit	1440.0	10368.0	-0.2041277768932623	USDA's Ag Handbook 8 and sequelae)
Psidium cattleianum	Fruit	1440.0	7445.0	-0.24963270517982486	--
Psophocarpus tetragonolobus	Seed	660.0	13692.0	-0.41709066285976165	--
Psophocarpus tetragonolobus	Leaf	760.0	3283.0	-0.3271548367142454	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Psophocarpus tetragonolobus	Tuber	620.0	1455.0	1.0	--
Pueraria montana	Stem				--
Punica granatum	Seed				--
Pyrus communis	Fruit	170.0	1050.0	-0.3491893306990064	--
Quisqualis indica	Seed	67160.0	78840.0	0.9271239641340009	--
Quisqualis indica	Fruit				--
Raphanus sativus	Root	260.0	5040.0	-0.16095154051510815	--
Rheum officinale	Root				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Rhus toxicodendron	Fruit				--
Ribes uva-crispa	Fruit	190.0	1566.0	-0.3411563019628222	--
Ribes rubrum	Fruit	100.0	623.0	-0.3558368176570502	--
Ribes nigrum	Fruit	200.0	1108.0	-0.34828639336044304	USDA's Ag Handbook 8 and sequelae)
Ricinus communis	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Robinia pseudoacacia	Seed	1380.0	6115.0	-0.5734287581003176	--
Rosa rubiginosa	Seed Oil				--
Rosa canina	Seed Oil				--
Rosmarinus officinalis	Leaf	19210.0	59600.0	0.7690832940819118	USDA's Ag Handbook 8 and sequelae)
Rubus idaeus	Fruit	130.0	970.0	-0.35043476151081787	Revised USDA data received 1993.
Ruta graveolens	Seed Oil				--
Salvia sclarea	Seed		22419.0	-0.23702433619164334	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Salvia officinalis	Seed				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Salvia sp.	Seed	11855.0	35640.0	0.03576779224644429	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Salvia officinalis	Fruit Essent. Oil				--
Sambucus nigra	Flower				--
Sambucus nigra	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Sambucus nigra	Seed				--
Sambucus canadensis	Seed	11658.0	18560.0	-0.31664802756465443	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Santalum album	Fruit				--
Santalum acuminatum	Seed	18000.0	24000.0	-0.2044031762899251	--
Satureja hortensis	Seed		8400.0	-0.5262817939159874	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Saussurea lappa	Root				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Schisandra chinensis	Seed				Chemical Constituents of Oriental Herbs (3 diff. books)
Schoenocaulon officinale	Seed				--
Scutellaria baicalensis	Root Essent. Oil				--
Secale cereale	Seed	2710.0	3045.0	-0.6367728193895491	USDA's Ag Handbook 8 and sequelae)
Senna obtusifolia	Seed		8960.0	-0.5147271768730005	--
Serenoa repens	Seed				--
Serenoa repens	Fruit	3800.0	87000.0	0.9888703977409701	--
Sesamum indicum	Seed Oil		120000.0	-0.4112562243968307	--
Sesamum indicum	Seed	25584.0	54144.0	0.41756535253828103	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Silybum marianum	Seed				--
Silybum marianum	Seed Oil				--
Silybum marianum	Plant				--
Simarouba glauca	Seed	70870.0	77380.0	0.8969994268433565	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Sinapis alba	Seed	7420.0	8539.0	-0.5234137728999603	--
Skimmia arborescens	Seed		22250.0	-0.240511354549259	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Solanum nigrum	Seed		3870.0	-0.6197503924958631	--
Solanum melongena	Fruit	140.0	1735.0	-0.3385253293728704	--
Solanum tuberosum	Tuber	160.0	760.0	-1.0	--
Spartium junceum	Seed				--
Spinacia oleracea	Leaf				--
Spinacia oleracea	Plant	106.0	4869.0	-0.7374530233038146	--
Stellaria media	Plant				--
Sterculia urens	Seed	35640.0	46332.0	0.25637844478861455	--
Strychnos nux-vomica	Seed	5040.0	6300.0	-0.569611607827188	--
Swertia chirata	Plant				--
Tagetes minuta	Seed Oil		216400.0	0.22973165000663703	--
Tamarindus indica	Seed Oil				--
Tamarindus indica	Fruit	1680.0	2449.0	-0.3274098593774528	USDA's Ag Handbook 8 and sequelae)
Taraxacum officinale	Root				--
Taraxacum officinale	Pollen Or Spore				--
Tecoma stans	Seed	1200.0	1380.0	-0.6711271718477153	--
Terminalia catappa	Seed Oil				Abdullahi, A. H., Anelli, G. 1980. Fatty Acid Composition and Characteristics of Terminalia catappa Oil Seed from Somalia. Riv. Agric. Subtrop. Trop. 74: 245-247.
Terminalia chebula	Fruit				Lu, P. P., Liu, X. J., Li, X. G., Wen, J. Q. 1991. Chemical Constituents of Fruits of Terminalia chebula Retz. Shanghai Yike Daxue Xuebao 18 (3): 233-235.
Terminalia chebula	Seed Oil				Miglani, B. D., Chawla, A. S. 1974. Chemical Investigation of the Oil of Terminaliaa chebula. J. Inst. Chem. (Calcutta) 46: 189-.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Terminalia catappa</i>	Seed	156600.0	232440.0	4.096390353067535	--
<i>Terminalia bellirica</i>	Seed	29500.0	82600.0	1.0047049642797696	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Terminalia pallida</i>	Seed Oil		273000.0	0.6060793024053536	Gunasekar, D., Sreeramulu, K., Rao, K. V. 1992. Fatty Acid Composition of the Seed Oil of <i>Terminalia pallida</i> . Asian J. Chem. 4 2: 400-401.
<i>Tetragonia tetragonioides</i>	Leaf	240.0	4000.0	-0.31319807872321526	--
<i>Teucrium polium</i>	Plant				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Theobroma angustifolium</i>	Seed	8740.0	23000.0	-0.2250364210095445	--
<i>Theobroma cacao</i>	Seed	89040.0	180500.0	3.024699622330506	--
<i>Theobroma bicolor</i>	Seed	20915.0	22090.0	-0.2438126737043981	--
<i>Thespesia populnea</i>	Seed		42800.0	0.18350182443891894	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Thevetia neriifolia</i>	Seed	85500.0	102600.0	1.417369858672157	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Thevetia peruviana</i>	Seed	85500.0	114570.0	1.6643497979660007	--
<i>Thymus vulgaris</i>	Plant	17200.0	18576.0	0.13135300956566015	USDA's Ag Handbook 8 and sequelae)
<i>Tilia</i> sp.	Wood				--
<i>Tribulus terrestris</i>	Fruit	2800.0	4000.0	-0.3032640695134574	--
<i>Trichosanthes anguina</i>	Seed	7060.0	9000.0	-0.5139018470842157	--
<i>Trifolium pratense</i>	Pollen Or Spore				--
<i>Trigonella foenum-graecum</i>	Plant				--
<i>Trigonella foenum-graecum</i>	Seed Oil		276300.0	0.6280218333755967	--
<i>Triticum aestivum</i>	Plant				--
<i>Tussilago farfara</i>	Leaf				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Urtica dioica	Root				Jim Duke's personal files.
Urtica dioica	Seed	10000.0	13500.0	-0.4210522458459286	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Valeriana officinalis	Root		83000.0	3.577003804191027	--
Valeriana jatamansi	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Valeriana officinalis	Plant				--
Vanilla planifolia	Fruit		258.0	-0.36151909573594015	--
Verbascum thapsus	Seed		309600.0	5.688451515633364	--
Verbascum thapsus	Seed Oil		656000.0	3.1527427453153964	--
Vernonia cinerea	Seed	1520.0	15200.0	-0.38597572982257566	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vetiveria zizanioides	Root				--
Viburnum opulus	Root Bark				--
Viburnum prunifolium	Bark				--
Viburnum opulus	Bark				--
Vicia faba	Seed	1210.0	6370.0	-0.5681672806968147	USDA's Ag Handbook 8 and sequelae)
Vigna unguiculata	Seed	3180.0	3473.0	-0.6279417906495519	USDA's Ag Handbook 8 and sequelae)
Vigna radiata	Seed	2500.0	4215.0	-0.6126319230675944	--
Vigna aconitifolia	Seed	3130.0	3465.0	-0.6281068566073089	--
Vigna unguiculata	Shoot	530.0	5185.0	-0.7071067811865476	--
Vigna unguiculata	Fruit	840.0	6913.0	-0.2579148200783713	USDA's Ag Handbook 8 and sequelae)
Vigna mungo	Seed	1269.0	3525.0	-0.6268688619241317	--
Vigna unguiculata	Shoot	530.0	5185.0	-0.7071067811865476	USDA's Ag Handbook 8 and sequelae)
Vigna radiata	Sprout Seedling	320.0	3361.0	-0.29363830512965683	USDA's Ag Handbook 8 and sequelae)
Vigna unguiculata	Seed	1690.0	5090.0	-0.5945778339379274	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Vigna angularis	Seed	331.0	381.0	-0.691739783322615	--
Viola odorata	Leaf				--
Viola surinamensis	Seed	18000.0	29900.0	-0.08266703244417087	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Viscum album	Fruit				--
Vitellaria paradoxa	Seed		29980.0	-0.08101637286660132	--
Vitellaria paradoxa	Seed Oil		48000.0	-0.8900023546566821	Adomako, D. 1977. Fatty Acid Composition and Characteristics of Pentadesma Butyracea Fat Extracted From Ghana Seeds. J. Sci. Food Agr. 28: 384-386.
Vitis vinifera	Fruit	1620.0	8333.0	-0.23580842316871725	USDA's Ag Handbook 8 and sequelae)
Vitis vinifera	Seed Oil				--
Vitis vinifera	Seed	3300.0	11000.0	-0.472635357644977	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Zea mays	Silk Stigma Style				--
Zea mays	Seed	1710.0	7114.0	-0.5528161466254179	USDA's Ag Handbook 8 and sequelae)
Zingiber officinale	Rhizome	1200.0	11220.0	1.0	--
Zingiber officinale	Root	1200.0	11220.0	0.13536149219761523	USDA's Ag Handbook 8 and sequelae)