

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for STEARIC-ACID

Plant	Part	Low PPM	High PPM	StdDev	Reference
Abelmoschus esculentus	Seed	7200.0	10120.0	-0.34582040476667064	--
Abrus precatorius	Seed		1225.0	-0.5388117000042002	Wealth of India.
Abutilon theophrasti	Seed		1375.0	-0.5355572093593851	Wealth of India.
Acacia farnesiana	Seed	600.0	2300.0	-0.515487850383026	--
Achillea millefolium	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.
Aesculus hippocastanum	Leaf				Jim Duke's personal files.
Aesculus hippocastanum	Seed		1015.0	-0.5433679869069411	--
Agrimonia eupatoria	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Akebia quinata	Seed				--
Aleurites moluccana	Seed	38190.0	46230.0	0.43764397646179387	Wealth of India.
Aleurites fordii	Seed	3900.0	7800.0	-0.3961565267398093	--
Alisma plantago-aquatica	Plant				--
Alliaria petiolata	Seed		880.0	-0.5462970284872747	--
Allium cepa	Seed		6300.0	-0.4287014331879593	Wealth of India.
Allium schoenoprasum	Leaf	80.0	1000.0	0.0297331201637005	USDA's Ag Handbook 8 and sequelae)
Allium cepa	Seed Oil		35000.0	-0.6541098145281985	--
Allium cepa	Bulb	20.0	195.0		--
Allium ampeloprasum	Plant				--
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	-0.20338219754526743	Wealth of India.
Ammi visnaga	Plant				--
Amphicarpaea bracteata	Seed	650.0	2560.0	-0.5098467332653467	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Anacardium occidentale	Seed	17725.0	102000.0	1.6476635982040109	--
Anamirta cocculus	Seed	52250.0	85500.0	1.2896696272743606	--
Ananas comosus	Fruit	110.0	815.0	-0.22517226092311657	USDA's Ag Handbook 8 and sequelae)
Anethum graveolens	Fruit	1000.0	1083.0	-0.2073990310361778	--
Anethum graveolens	Seed	1000.0	1083.0	-0.541892617814625	USDA's Ag Handbook 8 and sequelae)
Angelica archangelica	Plant				Pakistan Encyclopedia Planta Medica. 1986.
Angelica archangelica	Fruit				--
Angelica sinensis	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Annona reticulata	Plant				--
Annona muricata	Plant				--
Apium graveolens	Seed	3100.0	5000.0	-0.456907018776356	USDA's Ag Handbook 8 and sequelae)
Apium graveolens	Pt	30.0	560.0		USDA's Ag Handbook 8 and sequelae)
Aquilegia vulgaris	Seed		5100.0	-0.4547373583464793	--
Arachis hypogaea	Seed	10980.0	13760.0	-0.26684476511915994	--
Arctium lappa	Plant				--
Arctium lappa	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Areca catechu	Seed				--
Arnica montana	Flower				--
Artemisia capillaris	Essential Oil				--
Artocarpus altilis	Seed	5100.0	11660.0	-0.31240763414656997	USDA's Ag Handbook 8 and sequelae)
Asimina triloba	Fruit	102.0	2124.0	-0.1383619701693744	--
Asparagus officinalis	Shoot	30.0	387.0	-1.4142135623730951	--
Azadirachta indica	Fruit	79650.0	81000.0	5.092538330435788	--
Bactris gasipaes	Seed		9700.0	-0.3549329785721526	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Bactris gasipaes	Fruit	125.0	650.0	-0.23611473454753784	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Balanites aegyptiacus	Seed	42000.0	77000.0	1.1052484907348443	--
Benincasa hispida	Fruit	50.0	1280.0	-0.19433438070883846	--
Bertholletia excelsa	Seed	16228.0	72800.0	1.0141227526800243	--
Beta vulgaris	Root	10.0	79.0	-0.6950094104911273	USDA's Ag Handbook 8 and sequelae)
Bixa orellana	Seed	200.0	1275.0	-0.5377268697892619	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	6110.0	18000.0	-0.17485116289238925	--
Brassica rapa	Root	10.0	120.0	-0.5966080781280669	--
Brassica oleracea var. viridis l.	Plant				--
Brassica chinensis	Leaf	10.0	214.0	-0.48241730258681836	--
Brassica oleracea var. botrytis l.	Leaf	70.0	752.0	-0.13186141525885503	--
Brassica oleracea var. botrytis l.	Flower	30.0	390.0	0.6447612226140537	--
Brassica oleracea	Stem	10.0	110.0		--
Brassica oleracea var. capitata l.	Leaf	10.0	134.0	-0.5345445720779654	USDA's Ag Handbook 8 and sequelae)
Brassica nigra	Leaf	20.0	294.0	-0.43029003309567143	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. italica	Leaf	70.0	752.0	-0.13186141525885503	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. sabellica l.	Leaf	40.0	260.0	-0.4524441226294089	--
Brassica rapa	Leaf	10.0	214.0	-0.48241730258681836	USDA's Ag Handbook 8 and sequelae)
Brassica napus var. napobrassica	Root	30.0	290.0	-0.18860255369586548	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. gemmifera	Leaf	30.0	214.0	-0.48241730258681836	USDA's Ag Handbook 8 and sequelae)
Bryonia alba	Root				--
Cajanus cajan	Seed	240.0	733.0	-0.5494864293191933	--
Camellia sinensis	Seed				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Canarium indicum	Seed		74297.0	1.046602569315278	--
Capparis spinosa	Seed	11060.0	16200.0	-0.21390505063016926	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Capparis spinosa	Flower		348.0	0.1338183669576338	--
Capsicum frutescens	Fruit	30.0	245.0	-0.2629735334438446	USDA's Ag Handbook 8 and sequelae)
Capsicum annum	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 annum	Fruit	160.0	2180.0	-0.1346481609392678	USDA's Ag Handbook 8 and sequelae)
Carapa guianensis	Seed	220000.0	260000.0	5.0757270774091445	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	12650.0	13282.0	-0.2772157419739704	--
Carica papaya	Leaf				Jim Duke's personal files.
Carica papaya	Fruit	20.0	179.0	-0.2673505228936131	--
Carica papaya	Seed Oil		50000.0	-0.5312228391740013	Jim Duke's personal files.
Carthamus tinctorius	Seed	2000.0	6260.0	-0.42956929735990995	--
Carum carvi	Plant	1100.0	1221.0	-0.31662981705011717	--
Carum carvi	Seed	1000.0	1800.0	-0.5263361525324093	--
Carya illinoensis	Leaf				--
Cassia tora	Seed	2508.0	5624.0	-0.4433683376939256	--
Caulophyllum thalictroides	Root				Jim Duke's personal files.
Cedrus deodora	Seed		37995.0	0.2589724400614503	--
Ceiba pentandra	Seed	4000.0	32000.0	0.12890129729034414	--
Centaurea calcitrapa	Plant				--
Centaurium erythraea	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Centella asiatica	Plant				--
Ceratonia siliqua	Seed	200.0	1820.0	-0.525902220446434	Wealth of India.
Chamaelirium luteum	Rhizome				Jim Duke's personal files.
Chrysanthemum x morifolium	Flower				Wealth of India.
Cicer arietinum	Seed	850.0	960.0	-0.5445613001433733	USDA's Ag Handbook 8 and sequelae)
Cichorium intybus	Root	20.0	100.0	-0.6446087280612671	USDA's Ag Handbook 8 and sequelae)
Cichorium intybus	Seed				--
Cichorium intybus	Leaf	10.0	204.0	-0.48893321127321177	USDA's Ag Handbook 8 and sequelae)
Cichorium endivia	Leaf	20.0	322.0	-0.41204548877377	--
Cichorium intybus	Plant				--
Citrullus lanatus	Cotyledon		59100.0	-0.5870403836004546	--
Citrullus lanatus	Seed	12200.0	66000.0	0.8665858434484109	--
Citrullus colocynthis	Seed				--
Citrus aurantiifolia	Fruit	10.0	85.0	-0.2735844169584349	--
Citrus paradisi	Fruit	10.0	110.0	-0.27192646640928014	USDA's Ag Handbook 8 and sequelae)
Citrus reticulata	Seed Oil				--
Citrus reticulata	Fruit	10.0	80.0	-0.27391600706826585	USDA's Ag Handbook 8 and sequelae)
Cocos nucifera	Seed	584.0	32710.0	0.14430588634246846	--
Coffea arabica	Seed	5920.0	12800.0	-0.28767350524597596	--
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	Plant		200.0	-0.7284502542579766	--
Colocasia esculenta	Root	60.0	205.0	-0.39260531591196624	--
Corchorus olitorius	Seed	4180.0	5475.0	-0.4466011317344418	--
Corchorus olitorius	Leaf	60.0	490.0	-0.3025782228423614	--
Coriandrum sativum	Fruit	1100.0	1207.0	-0.1991755963123703	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Coriandrum sativum	Seed Essent. Oil		2000.0		--
Cornus mas	Seed Oil				Hohn, M. E., Meinschein, W. G. 1976. Seed Oil Fatty Acids: Evolutionary Significance in the Nyssaceae and Cornaceae. Biochem. Syst. Ecol., 4: 193-199.
Corylus avellana	Seed	8000.0	10400.0	-0.33974535556301594	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Crataegus laevigata	Bark				--
Crataegus rhipidophylla	Bark				--
Crocus sativus	Silk Stigma Style				--
Croton tiglium	Seed	900.0	1500.0	-0.5328451338220394	--
Cryptostegia grandifolia	Seed		10240.0	-0.3432168122508186	--
Cucumis sativus	Cotyledon	28800.0	59100.0	-0.5870403836004546	--
Cucumis sativus	Seed	11100.0	69785.0	0.9487074907192428	--
Cucumis melo	Seed	10080.0	35145.0	0.19713711780996532	--
Cucumis sativus	Fruit	30.0	759.0	-0.22888607015322318	--
Cucumis melo	Cotyledon	10100.0	61400.0	-0.5578470239835672	--
Cucurbita pepo	Seed	22670.0	30710.0	0.10091267774493513	--
Cucurbita maxima	Seed		21450.0	-0.09999787806164424	--
Cucurbita foetidissima	Seed	2430.0	28475.0	0.052420767137191626	--
Cucurbita pepo	Fruit	30.0	357.0	-0.2555459149836314	USDA's Ag Handbook 8 and sequelae)
Cucurbita spp	Fruit	40.0	635.0	-0.2371095048770307	--
Cucurbita pepo	Flower	20.0	410.0	0.8880673443552061	USDA's Ag Handbook 8 and sequelae)
Cyamopsis tetragonoloba	Seed Oil		58000.0	-0.46568311898509607	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	30.0	200.0	-1.6666469339268937	USDA's Ag Handbook 8 and sequelae)
Cyperus rotundus	Rhizome				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Datura stramonium	Plant				--
Daucus carota	Seed	285.0	1240.0	-0.5384862509397187	--
Daucus carota	Root	10.0	80.0	-0.6926093779944673	--
Dioscorea pentaphylla	Root	20.0	108.0	-0.625408468087987	--
Dipsacus fullonum	Seed	4200.0	5660.0	-0.44258725993917	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Dipteryx odorata	Seed		1425.0	-0.5344723791444468	--
Dodonaea viscosa	Seed	7490.0	31400.0	0.11588333471108414	--
Elaeagnus angustifolia	Seed		235.0	-0.5602913382599791	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 guineensis	Fruit	4600.0	69615.0	4.33750765035072	--
Elettaria cardamomum	Seed Oil				--
Elettaria cardamomum	Fruit	600.0	650.0	-0.23611473454753784	Revised USDA data received 1993.
Elettaria cardamomum	Seed	1830.0	18300.0	-0.16834218160275924	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Eleutherococcus senticosus	Rhizome				--
Eruca sativa	Seed	2900.0	6600.0	-0.4221924518983293	--
Erythrina crista-galli	Seed		6500.0	-0.424362112328206	--
Eucommia ulmoides	Seed Oil		25000.0	-0.73603446476433	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Fagopyrum esculentum	Pollen Or Spore				--
Fagopyrum esculentum	Seed		460.0	-0.5554096022927567	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ficus carica	Seed	5232.0	6540.0	-0.4234942481562553	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ficus carica	Fruit	120.0	574.0	-0.24115490421696825	USDA's Ag Handbook 8 and sequelae)
Fragaria spp	Fruit	40.0	475.0	-0.247720388391621	USDA's Ag Handbook 8 and sequelae)
Fucus vesiculosus	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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	Tissue Culture				--
Ganoderma lucidum	Fruit				--
Ginkgo biloba	Pollen Or Spore				Jim Duke's personal files.
Ginkgo biloba	Seed	160.0	357.0	-0.5576443525355296	USDA's Ag Handbook 8 and sequelae)
Glycine max	Seed	4320.0	7785.0	-0.3964819758042908	--
Gossypium sp	Seed	1760.0	5589.0	-0.4441277188443824	--
Harpagophytum procumbens	Tuber				--
Helianthus annuus	Seed	9000.0	28000.0	0.04211488009527745	--
Hibiscus sabdariffa	Seed				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Hippophae rhamnoides	Fruit		1040.0	-0.21025070598072393	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		6610.0	-0.4219754858553416	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Holarrhena pubescens	Seed		12920.0	-0.28506991273012394	--
Hordeum vulgare	Seed	130.0	1430.0	-0.534363896122953	Jim Duke's personal files.*
Hordeum vulgare	Leaf				--



Plant	Part	Low PPM	High PPM	StdDev	Reference
Houttuynia cordata	Root				--
Houttuynia cordata	Shoot				--
Hyoscyamus niger	Seed	4000.0	6224.0	-0.43035037511466556	--
Hypericum perforatum	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ilex paraguariensis	Leaf				--
Ipomoea batatas	Root	60.0	221.0	-0.35420479596540605	--
Iris versicolor	Rhizome				--
Jatropha curcas	Seed	26400.0	87360.0	1.3300253112700666	--
Juglans nigra	Seed	13940.0	14575.0	-0.2491620326156651	USDA's Ag Handbook 8 and sequelae)
Juglans regia	Seed	2000.0	21030.0	-0.10911045186712624	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Juglans nigra	Seed Oil				--
Juglans cinerea	Seed	4250.0	4397.0	-0.46999007116851227	--
Juniperus communis	Plant				--
Lablab purpureus	Seed	90.0	742.0	-0.5492911598805045	--
Lactuca scariola	Seed		13165.0	-0.2797542446769261	--
Lactuca sativa	Leaf	40.0	667.0	-0.18724663909319866	--
Lagenaria siceraria	Fruit				--
Lawsonia inermis	Oil	157800.0	158000.0		--
Lawsonia inermis	Seed	8835.0	19285.0	-0.1469710263684741	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Lens culinaris	Seed	140.0	160.0	-0.5619185835823867	USDA's Ag Handbook 8 and sequelae)
Lens culinaris	Sprout Seedling	60.0	200.0	-1.397001397002096	USDA's Ag Handbook 8 and sequelae)
Leonotis nepetaefolia	Seed	3360.0	4560.0	-0.4664535246678133	--
Lepidium sativum	Leaf	70.0	660.0	-0.19180777517367403	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lepidium sativum	Seed	9560.0	15325.0	-0.2328895793915901	--
Ligustrum japonicum	Seed				--
Linum usitatissimum	Seed	13595.0	16545.0	-0.20641972214709475	Cunane, S. and Thompson, L. U., eds. 1995. Flaxseed in Human Nutrition. AOCS Press, Champaign IL. 384 pp.
Linum usitatissimum	Seed Oil		81000.0	-0.2772564234419937	--
Lobelia inflata	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Luffa aegyptiaca	Seed	36000.0	81000.0	1.192034907929911	--
Luffa aegyptiaca	Fruit	50.0	1000.0	-0.21290342685937153	--
Lupinus albus	Seed	3160.0	3525.0	-0.4889095101170368	--
Lycopersicon esculentum	Fruit	80.0	1322.0	-0.19154902378625838	--
Macadamia spp	Seed	23560.0	27810.0	0.03799252527851179	--
Malus domestica	Fruit	70.0	435.0	-0.25037310927026857	--
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	30.0	164.0	-0.26834529322310596	--
Manihot esculenta	Root	70.0	220.0	-0.3566048284620661	--
Medicago sativa	Seed Oil				--
Melia azedarach	Seed		22800.0	-0.07070746225830923	--
Mentha spicata	Leaf	200.0	1385.0	0.28059560458984517	USDA's Ag Handbook 8 and sequelae)
Mentha x piperita	Leaf	250.0	1170.0	0.14050356783238777	--
Mimosa pudica	Seed	2135.0	15130.0	-0.2371204172298496	--
Momordica charantia	Cotyledon	121200.0	241800.0	1.7319277911844766	Jim Duke's personal files.
Momordica charantia	Seed	29800.0	147800.0	2.641368075087524	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Momordica charantia	Fruit				Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Momordica charantia	Seed Oil				Jim Duke's personal files.
Moringa oleifera	Seed	6000.0	60000.0	0.7364062176558109	--
Morus alba	Seed				--
Mucuna pruriens	Seed	390.0	12475.0	-0.29472490164307513	--
Murraya sp	Plant				--
Musa x paradisiaca	Plant				--
Musa x paradisiaca	Fruit	60.0	233.0	-0.26376934970743887	USDA's Ag Handbook 8 and sequelae)
Myrica cerifera	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Myristica fragrans	Seed				--
Myristica fragrans	Seed Essent. Oil				--
Nardostachys chinensis	Root				--
Nelumbo nucifera	Rhizome	10.0	50.0	-1.0	--
Nepeta cataria	Seed Oil				--
Nerium oleander	Flower				--
Nigella sativa	Seed Oil	18100.0	60400.0	-0.4460212029284245	--
Nigella sativa	Seed	8722.0	10192.0	-0.3442582492571594	--
Ocimum basilicum	Seed		485.0	-0.5548671871852875	--
Ocimum tenuiflorum	Seed		3255.0	-0.4947675932777038	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum sanctum	Seed		3255.0	-0.4947675932777038	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Oenothera biennis	Seed	1875.0	12150.0	-0.30177629804017425	--
Oenothera biennis	Seed Oil	5000.0	19000.0	-0.7851892549060089	--
Olea europaea	Fruit	2100.0	5600.0	0.09215947418510027	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Opuntia ficus-indica	Flower				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Opuntia ficus-indica	Seed	3130.0	10555.0	-0.3363823818967071	--
Opuntia ficus-indica	Seed Oil		58000.0	-0.46568311898509607	--
Origanum vulgare	Plant	5800.0	6247.0	1.7106077122414611	USDA's Ag Handbook 8 and sequelae)
Oryza sativa	Seed	150.0	270.0	-0.5595319571095223	--
Pachira aquatica	Seed	0.0	17400.0	-0.18786912547164925	--
Pachyrhizus erosus	Seed				--
Panax quinquefolius	Plant				--
Panax ginseng	Root				--
Papaver somniferum	Seed Oil				--
Papaver somniferum	Seed	5890.0	8036.0	-0.39103612812530036	--
Papaver somniferum	Latex Exudate				--
Papaver bracteatum	Seed	9900.0	12000.0	-0.3050307886849893	--
Passiflora edulis	Seed		4050.0	-0.47751879286018434	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Pastinaca sativa	Root	140.0	685.0	0.7594102824848379	--
Persea americana	Fruit	120.0	4320.0	0.007272406068377717	--
Petasites hybridus	Root				--
Petiveria alliacea	Leaf				Germosen-Robineau, L. (Ed.) 1997. Farmacopea Vegetal Caribena. Endacaribe, Tramil. Ediciones Emile Desormeaux, Martinique F.W.I. 360 pp.
Petroselinum crispum	Seed				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Phaseolus lunatus	Seed	220.0	739.0	-0.5493562496934008	--
Phaseolus vulgaris	Seed	220.0	247.0	-0.5600309790083939	USDA's Ag Handbook 8 and sequelae)
Phaseolus vulgaris	Fruit	40.0	411.0	-0.25196474179745715	USDA's Ag Handbook 8 and sequelae)
Phaseolus vulgaris	Sprout Seedling	90.0	968.0	0.8890008890013331	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Phoenix dactylifera	Seed	3000.0	10000.0	-0.3484239972825226	--
Phyllanthus emblica	Seed		3440.0	-0.49075372148243196	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Phyllanthus emblica	Seed Oil				--
Physalis peruviana	Fruit		3400.0	-0.053740174140516614	--
Physostigma venenosum	Seed				--
Pinellia ternata	Tuber				--
Pinus gerardiana	Seed	3840.0	6485.0	-0.4246875613926875	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Pinus pinea	Seed	16720.0	17920.0	-0.1765868912362906	USDA's Ag Handbook 8 and sequelae)
Pinus edulis	Seed	20110.0	21400.0	-0.10108270827658257	USDA's Ag Handbook 8 and sequelae)
Pinus walliciana	Seed		13130.0	-0.28051362582738293	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Piper nigrum	Fruit				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Piscidia piscipula	Plant				--
Pistacia vera	Seed	6280.0	8960.0	-0.37098846575323996	--
Pisum sativum	Fruit	30.0	297.0	-0.25952499630160275	--
Pisum sativum	Seed	70.0	331.0	-0.5582084642472975	--
Plantago ovata	Seed	1300.0	3450.0	-0.4905367554394443	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Plantago asiatica	Seed				--
Plantago ovata	Seed Coat				--
Plantago psyllium	Seed				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Polypodium vulgare	Rhizome				--
Portulaca oleracea	Seed		6438.0	-0.4257073017947295	--
Prunella vulgaris	Leaf				--
Prunus dulcis	Seed	10210.0	10680.0	-0.3336703063593613	USDA's Ag Handbook 8 and sequelae)
Prunus cerasus	Seed	8700.0	11600.0	-0.31370943040449595	--
Prunus persica	Seed				--
Prunus domestica	Seed	16380.0	17640.0	-0.18266194043994524	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Prunus cerasus	Fruit	160.0	1152.0	-0.2028230875205107	--
Prunus persica	Fruit	10.0	80.0	-0.27391600706826585	--
Prunus laurocerasus	Seed	425.0	510.0	-0.5543247720778183	--
Prunus domestica	Fruit	90.0	608.0	-0.2389000914701178	USDA's Ag Handbook 8 and sequelae)
Prunus armeniaca	Fruit	30.0	220.0	-0.26463148399299935	USDA's Ag Handbook 8 and sequelae)
Psidium guajava	Fruit	160.0	1152.0	-0.2028230875205107	USDA's Ag Handbook 8 and sequelae)
Psidium cattleianum	Fruit	160.0	825.0	-0.22450908070345468	--
Psophocarpus tetragonolobus	Leaf	440.0	1901.0	0.616816492807743	--
Psophocarpus tetragonolobus	Tuber	360.0	845.0	1.0	--
Psophocarpus tetragonolobus	Seed	7450.0	8128.0	-0.38904004052981384	--
Pueraria montana	Stem				--
Punica granatum	Seed				--
Quisqualis indica	Seed	20930.0	24570.0	-0.032304472649492225	--
Quisqualis indica	Fruit				--
Raphanus sativus	Root	40.0	775.0	0.9754132071842386	--
Ribes uva-crispa	Fruit	130.0	1071.0	-0.20819484729977206	--
Ribes rubrum	Fruit	30.0	187.0	-0.2668199787178836	--
Ribes nigrum	Fruit	70.0	388.0	-0.2534900563026795	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Robinia pseudoacacia	Seed	700.0	3125.0	-0.4975881518365435	--
Rosa canina	Seed Oil				--
Rosa rubiginosa	Seed Oil				--
Rosmarinus officinalis	Leaf	2310.0	7165.0	4.046790825325211	USDA's Ag Handbook 8 and sequelae)
Rubus idaeus	Fruit	130.0	970.0	-0.2148929675183572	Revised USDA data received 1993.
Ruta graveolens	Seed Oil				--
Salvia sclarea	Seed		8568.0	-0.3794935346383565	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	6610.0	58320.0	0.6999559224338829	--
Salvia officinalis	Fruit Essent. Oil				--
Sambucus canadensis	Seed	5628.0	8960.0	-0.37098846575323996	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Sambucus nigra	Flower				--
Sambucus nigra	Leaf				--
Sambucus nigra	Plant				--
Satureja hortensis	Seed		8400.0	-0.3831385641605493	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Schisandra chinensis	Seed				Chemical Constituents of Oriental Herbs (3 diff. books)
Scutellaria baicalensis	Root Essent. Oil				--
Secale cereale	Seed	90.0	100.0	-0.5632203798403127	USDA's Ag Handbook 8 and sequelae)
Senna obtusifolia	Seed		3550.0	-0.48836709500956765	--
Serenoa repens	Seed				--
Serenoa repens	Fruit	720.0	2305.0	-0.12635840819349412	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Sesamum indicum	Seed	11808.0	32832.0	0.146952872066918	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Sesamum indicum	Seed Oil		60000.0	-0.44929818893786977	--
Silybum marianum	Seed				--
Silybum marianum	Seed Oil		178000.0	0.5174126838484817	--
Silybum marianum	Plant				--
Simarouba glauca	Seed	169600.0	185220.0	3.453255007947373	--
Sinapis alba	Seed	2340.0	2846.0	-0.5036415044358994	--
Skimmia arborescens	Seed		4000.0	-0.47860362307512266	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Solanum nigrum	Seed		4085.0	-0.4767594117092747	--
Solanum melongena	Fruit	50.0	620.0	-0.23810427520652352	--
Solanum tuberosum	Tuber	40.0	190.0	-1.0	--
Spartium junceum	Seed				--
Spinacia oleracea	Plant	7.0	356.0	-0.6655276409333674	--
Spinacia oleracea	Leaf				--
Stellaria media	Plant				--
Sterculia urens	Seed	4020.0	5226.0	-0.4520035862048347	--
Strychnos nux-vomica	Seed	2640.0	3300.0	-0.49379124608425934	--
Swertia chirata	Plant				--
Tagetes minuta	Seed Oil				--
Tamarindus indica	Seed Oil				--
Tamarindus indica	Fruit	600.0	874.0	-0.2212594976271114	USDA's Ag Handbook 8 and sequelae)
Taraxacum officinale	Pollen Or Spore				--
Tecoma stans	Seed	600.0	690.0	-0.5504193833040403	--
Terminalia bellirica	Seed	40000.0	112000.0	1.8646296411916774	--



Plant	Part	Low PPM	High PPM	StdDev	Reference
Terminalia pallida	Seed Oil		92000.0	-0.18713930818224905	Gunasekar, D., Sreeramulu, K., Rao, K. V. 1992. Fatty Acid Composition of the Seed Oil of Terminalia pallida. Asian J. Chem. 4 2: 400-401.
Terminalia chebula	Seed Oil				Miglani, B. D., Chawla, A. S. 1974. Chemical Investigation of the Oil of Terminalia chebula. J. Inst. Chem. (Calcutta) 46: 189-.
Terminalia catappa	Seed	21600.0	40525.0	0.31386484893733	--
Tetragonia tetragonioides	Leaf	20.0	335.0	-0.40357480748145863	--
Teucrium polium	Plant				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Theobroma angustifolium	Seed	43700.0	115050.0	1.9308042843029158	--
Theobroma cacao	Seed	111300.0	215450.0	4.109143355899089	--
Theobroma bicolor	Seed	172655.0	182375.0	3.391528168717382	--
Theobroma cacao	Plant				--
Thevetia peruviana	Seed	59000.0	79060.0	1.1499434955903036	--
Thevetia neriifolia	Seed	59000.0	70800.0	0.970729544082491	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Tribulus terrestris	Fruit	2800.0	4000.0	-0.01394936096080292	--
Trichosanthes anguina	Seed	30500.0	41100.0	0.3263403964091208	--
Trifolium pratense	Pollen Or Spore				--
Trigonella foenum-graecum	Seed				--
Trigonella foenum-graecum	Seed Oil		107400.0	-0.06097534681860657	--
Triticum aestivum	Plant				--
Tussilago farfara	Flower				--
Urtica dioica	Root				Jim Duke's personal files.
Valeriana officinalis	Root				--
Vanilla planifolia	Fruit		39.0	-0.2766350459688796	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Verbascum thapsus	Seed		164000.0	2.9928530647275444	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Verbascum thapsus	Seed Oil		325000.0	1.7217050423196145	--
Vicia faba	Seed	170.0	895.0	-0.5459715794227932	USDA's Ag Handbook 8 and sequelae)
Vigna angularis	Seed	662.0	762.0	-0.5488572277945292	--
Vigna radiata	Sprout Seedling	80.0	840.0	0.5080005080007616	USDA's Ag Handbook 8 and sequelae)
Vigna unguiculata	Shoot	80.0	783.0	0.7071067811865476	--
Vigna unguiculata	Shoot	80.0	783.0	0.7071067811865476	USDA's Ag Handbook 8 and sequelae)
Vigna radiata	Seed	710.0	1170.0	-0.5400050132406323	--
Vigna unguiculata	Seed	200.0	218.0	-0.5606601805330582	USDA's Ag Handbook 8 and sequelae)
Vigna aconitifolia	Seed	510.0	565.0	-0.5531314588413861	--
Vigna unguiculata	Seed	270.0	813.0	-0.547750700975292	USDA's Ag Handbook 8 and sequelae)
Vigna mungo	Seed	387.0	1075.0	-0.5420661906490152	--
Vigna unguiculata	Fruit	130.0	1070.0	-0.20826116532173825	USDA's Ag Handbook 8 and sequelae)
Vitellaria paradoxa	Seed	215660.0	233020.0	4.49035269342842	--
Vitellaria paradoxa	Seed Oil		459000.0	2.8194953554837765	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	Seed	1440.0	4800.0	-0.4612463396361093	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vitis vinifera	Seed Oil				--
Withania somnifera	Plant				--
Zea mays	Silk Stigma Style				--
Zea mays	Seed	110.0	457.0	-0.5554746921056529	USDA's Ag Handbook 8 and sequelae)
Zingiber officinale	Root	170.0	1540.0	2.8114380671291452	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zingiber officinale	Rhizome	170.0	1540.0	1.0	--