

Dr. Duke's Phytochemical and Ethnobotanical Database

List of Plants for OLEANOLIC-ACID

Plant	Part	Low PPM	High PPM	StdDev	Reference
Achyranthes aspera	Plant	--	--		--
Achyranthes bidentata	Fruit	--	--		--
Agastache rugosa	Root	10	10	-0.8643260077603725	Jim Duke's personal files.
Akebia quinata	Stem	--	--		--
Albizia lebeck	Seed	--	--		Wealth of India.
Allium cepa	Bulb	--	--		--
Allium sativum var. sativum	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Apocynum cannabinum	Root	--	--		--
Arctostaphylos uva-ursi	Plant	--	--		--
Arctostaphylos uva-ursi	Tissue Culture	--	454.5		--
Arctostaphylos uva-ursi	Shoot	--	--		--
Arctostaphylos uva-ursi	Leaf	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Artemisia annua	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
Calendula officinalis	Flower	--	--		--
Catharanthus roseus	Plant	--	--		Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Centaurium erythraea	Plant	--	--		--
Chenopodium album	Plant	--	--		--
Chenopodium quinoa	Tissue Culture	--	--		Jim Duke's personal files.
Chenopodium quinoa	Root	--	--		Jim Duke's personal files.
Chenopodium quinoa	Fruit	--	--		Jim Duke's personal files.
Chimaphila umbellata	Shoot	--	--		--
Citrullus colocynthis	Plant	--	--		--
Cnicus benedictus	Plant	--	--		--
Cnicus benedictus	Shoot	--	--		Jim Duke's personal files.
Cornus officinalis	Seed	--	--		--
Crataegus laevigata	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Crataegus monogyna</i>	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Crataegus monogyna</i>	Inflorescence	--	--		--
<i>Crocus sativus</i>	Silk Stigma Style	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
<i>Cyperus rotundus</i>	Tuber	--	--		--
<i>Daemonorops draco</i>	Fruit	--	--		--
<i>Elaeagnus angustifolia</i>	Plant	--	--		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.
<i>Elaeagnus angustifolia</i>	Bark	--	2140	1	Zhong, J. F., Jin, J. H., Li, X. P. 1991. Determination of Oleanolic Acid in Russian Olive (<i>Elaeagnus angustifolia</i>) by TLC-Scanning. <i>Chung Ts'ao Yao</i> 22 3: 398-399. Gansu Inst New Med Pharm Sci Lanzhou 730050 China.
<i>Elaeagnus pungens</i>	Leaf	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Eleutherococcus senticosus</i>	Root	--	84	-0.6809540909763485	--
<i>Eleutherococcus senticosus</i>	Leaf	--	--		--
<i>Eriobotrya japonica</i>	Leaf	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Eucalyptus globulus</i>	Leaf	--	--		--
<i>Ficus carica</i>	Leaf	--	--		--
<i>Forsythia suspensa</i>	Fruit	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Glechoma hederacea	Plant	--	360	-1.0986728439772253	--
Harpagophytum procumbens	Root	--	--		--
Harpagophytum procumbens	Tuber	--	--		--
Hedera helix	Leaf	--	--		--
Helianthus annuus	Flower	--	--		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.
Humulus lupulus	Stem	--	--		--
Hyssopus officinalis	Plant	--	--		--
Lavandula latifolia	Leaf	4900	4900	2.139880287127935	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Leonurus cardiaca	Plant	--	--		--
Ligustrum japonicum	Fruit	--	--		--
Ligustrum lucidum	Fruit	0.7	80400	1	--
Ligustrum lucidum	Leaf	--	--		--
Ligustrum lucidum	Plant	--	--		--
Ligustrum lucidum	Seed	--	--		--
Liquidambar orientalis	Resin, Exudate, Sap	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Liquidambar styraciflua	Resin, Exudate, Sap	--	--		--
Luffa aegyptiaca	Seed	--	--		--
Matricaria recutita	Flower	--	--		--
Melaleuca leucadendra	Plant	--	--		--
Melilotus officinalis	Leaf	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Melissa officinalis	Shoot	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Mentha spicata	Leaf	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha spicata	Shoot	--	--		--
Mentha x rotundifolia	Tissue Culture	--	--		Jim Duke's personal files.
Myristica fragrans	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Myroxylon balsamum	Plant	--	--		--
Nerium oleander	Plant	--	--		--
Ocimum basilicum	Flower	1300	1300	-0.6357280607585934	--
Ocimum basilicum	Leaf	--	1700	0.19433717473155765	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ocimum suave	Leaf	--	--		J. Nat. Prod. 44: 308.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ocimum tenuiflorum	Leaf	0	2180	0.48616864159101425	--
Olea europaea	Petiole	--	--		--
Olea europaea	Hull Husk	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Origanum majorana	Plant	4700	4700	0.19004070814741195	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Origanum vulgare	Plant	--	--		--
Panax ginseng	Root	150	700	0.845493216306878	--
Panax japonicus	Rhizome	--	--		--
Panax quinquefolius	Plant	--	20	-1.1996319701805378	--
Panax quinquefolius	Root	600	980	1.5393329014356174	--
Phoradendron juniperinum	Shoot	--	3	-1.3550810091963932	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.
Phytolacca americana	Root	--	--		--
Pistacia lentiscus	Plant	--	--		--
Plantago major	Leaf	--	--		--
Plectranthus amboinicus	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Prosopis glandulosa	Shoot	--	15	0.32708851946119877	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Prosopis glandulosa	Stem	--	--		Zirvi, K. A., Jewers, K., Nagler, M. J. 1977. Phytochemical Investigation of Prosopis glandulosa Stems. Planta Med. Suppl. 32: 244-246.
Prosopis glandulosa	Flower	--	--		Ahmed, N., Razaq, S. 1986. Chemical Investigation of Prosopis glandulosa Flowers. Fitoterapia 57 6: 457.
Prunella vulgaris	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Prunus africana	Bark	--	--		--
Prunus cerasus	Fruit	--	--		--
Psidium guajava	Leaf	--	--		--
Psidium guajava	Flower	--	--		--
Psidium guajava	Heart Wood	--	--		--
Psidium guajava	Fruit	--	--		--
Punica granatum	Flower	--	--		--
Quisqualis indica	Fruit	--	--		--
Rosa woodsii	Leaf	--	65	-0.7997137592584663	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.
Rosmarinus officinalis	Plant	10500	10500	1.9122846257333326	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosmarinus officinalis	Shoot	20	20	1.0279924897351953	--
Salvia officinalis	Leaf	140	786	-0.36135857674665767	--
Salvia officinalis	Stem	400	400	1	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Salvia sclarea	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Salvia triloba	Plant	5200	5200	0.3385100113875775	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Sambucus canadensis	Leaf	--	--		--
Sambucus nigra	Bark	--	503	-1	--
Sambucus nigra	Leaf	--	--		--
Sambucus nigra	Flower	--	--		--
Satureja hortensis	Plant	600	600	-1.0274075784219459	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Satureja montana	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Syzygium aromaticum	Flower	--	20000	1.4118875102795632	--
Syzygium aromaticum	Fruit	35	20000	-1	--
Syzygium aromaticum	Essential Oil	10000	10000		--
Syzygium aromaticum	Seed	--	7	-1	--
Syzygium claviflorum	Leaf	--	14	-0.8307208526122837	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Terminalia arjuna	Flower	--	17.5	-0.7761594495209697	Tripathi, V. K., Pandey, V. B., Udupa, K. N., Rucker, G. 1992. Arjunolitin, a Triterpene Glycoside from Terminalia arjuna. Phytochemistry 31 1: 349-351.
Terminalia arjuna	Leaf	--	17.5	-0.8285929148331	--
Terminalia arjuna	Seed	--	17.5	1	Tripathi, V. K., Pandey, V. B., Udupa, K. N., Rucker, G. 1992. Arjunolitin, a Triterpene Glycoside from Terminalia arjuna. Phytochemistry 31 1: 349-351.
Terminalia arjuna	Stem	--	17.5	-1	Tripathi, V. K., Pandey, V. B., Udupa, K. N., Rucker, G. 1992. Arjunolitin, a Triterpene Glycoside from Terminalia arjuna. Phytochemistry 31 1: 349-351.
Terminalia arjuna	Root Bark	--	10	-1	Anjaneyulu, A. S. R., Rama Prasad, A. V. 1982. Chemical Examination of Roots of Terminalia arjuna (Roxb.) Wight & Arnot: Part I-Characterization of Two New Triterpenoid Glycosides. Indian J. Chem. 21B 6: 530-533.
Terminalia catappa	Bark	--	--		Diyabalanaga, T. K. K., Jayasinghe, U. L. B., Simmonds, P. M., Wannigama, G. P., Wickramasinghe, A. 1997. Chemical Investigation of Terminalia catappa. Acgc. Chem. Res. Commun. 6: 26-28.
Terminalia pallida	Fruit	--	--		--
Ternstroemia gymnanthera	Shoot	--	--		Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.
Thymus serpyllum	Plant	4800	4800	0.21973456879544506	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Thymus vulgaris	Plant	6300	6300	0.6651424785159418	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Uncaria tomentosa	Plant	--	--		--
Uncaria tomentosa	Root Bark	100	150	1	--
Urtica dioica	Root	--	20	-0.8395460190057746	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Urtica dioica	Flower	--	--		Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.
Vaccinium corymbosum	Plant	--	--		--
Vaccinium macrocarpon	Fruit	--	--		--
Vaccinium myrtillus	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Verbascum thapsus	Flower	--	--		--
Viburnum prunifolium	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Viburnum prunifolium	Root Bark	--	--		--
Viscum album	Resin, Exudate, Sap	--	--		--
Vitis vinifera	Leaf Wax	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Vitis vinifera	Pericarp	--	--		--
Zea mays	Silk Stigma Style	--	--		--
Zizyphus jujuba	Plant	--	--		--