

C ALPHA-AMYRIN

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ALPHAAMYRIN

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Agrimonia eupatoria	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Albizia lebeck	Flower	--	--		Wealth of India.
Allium cepa	Bulb	--	--		Smocziewiczowa, A., Nitschke, D. 1978. Study of Saponins and Sapogenins in Onions. Zesz Nauk Akad Ekon Poznaniu Ser, 1(73): 40-43.
Angelica archangelica	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Apocynum cannabinum	Root	--	--		--
Arctium lappa	Plant	--	--		Jim Duke's personal files.
Arctium lappa	Leaf	--	--		--
Arctostaphylos uva-ursi	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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.
Artemisia vulgaris	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Artocarpus altilis	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Asclepias syriaca	Sprout Seedling	--	--		--
Boswellia serrata	Resin, Exudate, Sap	--	--		--
Brassica oleracea var. botrytis l.	Bud	--	--		--
Brassica oleracea var. botrytis l.	Flower	--	--		--
Brassica oleracea var. italica	Bud	5	30		Jim Duke's personal files.
Cajanus cajan	Root	--	--		Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Calendula officinalis	Flower	--	--		--
Calotropis sp.	Bark	--	--		--
Camellia japonica	Seed	--	--		Wealth of India.
Camellia sinensis	Seed Oil	--	--		--
Centaurium erythraea	Plant	--	--		--
Cichorium intybus	Seed	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Citrullus colocynthis	Seed	--	--	--	
Cnicus benedictus	Plant	--	--	--	
Cnicus benedictus	Shoot	--	--		Jim Duke's personal files.
Cocos nucifera	Seed Oil	--	--		Jim Duke's personal files.
Cucumis melo	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Cucumis sativus	Seed	--	--	--	
Daucus carota	Root	--	--	--	
Euphorbia hirta	Plant	--	--	--	
Euphorbia pulcherrima	Plant	--	--	--	
Fagopyrum esculentum	Seed	--	--	--	
Gaultheria procumbens	Leaf	--	--	--	
Gaultheria procumbens	Shoot	--	--	--	
Glechoma hederacea	Plant	--	--	--	
Glycine max	Sprout Seedling	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Glycine max	Seed	--	--	--	
Guarea rusbyi	Plant	--	--	--	
Helianthus annuus	Seed	--	--	--	
Hemidesmus indicus	Root	--	--	--	
Iris x germanica	Rhizome	--	--	--	

Plant	Part	Low PPM	High PPM	StdDev	Reference
Jatropha curcas	Leaf	--	--	--	
Juniperus communis	Stem	--	--	--	
Kalanchoe pinnata	Leaf	--	--	--	
Lantana camara	Plant	--	--	--	
Ligustrum japonicum	Flower	--	--	--	
Lycopersicon esculentum	Fruit	--	--	--	
Mitchella repens	Plant	--	--	--	
Morus alba	Root Bark	--	--	--	
Myrica cerifera	Stem	--	--	--	
Myrica cerifera	Leaf	--	--	--	
Myrica cerifera	Fruit	--	--	--	
Myrica cerifera	Root	--	--	--	
Nerium oleander	Plant	--	--	--	
Oenothera biennis	Seed	125	266	--	
Oenothera biennis	Inflorescence	--	--	--	
Pisum sativum	Seed	--	--	--	
Plantago ovata	Seed	--	--	--	
Pluchea carolinensis	Plant	--	--	--	Tramil
Plumeria acutifolia	Latex Exudate	--	--	--	

Plant	Part	Low PPM	High PPM	StdDev	Reference
Psidium guajava	Fruit	--	--	--	
Rhododendron ferrugineum	Leaf	--	--	--	
Rhododendron ponticum	Plant	--	--	--	
Rosmarinus officinalis	Plant	--	--	--	
Rosmarinus officinalis	Shoot	13	13	--	
Salvia officinalis	Leaf	1800	1800	--	
Salvia officinalis	Plant	--	--	--	
Sambucus nigra	Bark	--	379	--	
Sambucus nigra	Leaf	--	--	--	
Sambucus nigra	Flower	--	--	--	
Sarcostemma acidum	Plant	--	--	--	
Sarracenia flava	Root	--	600	--	
Sarracenia purpurea	Shoot	--	--	--	
Sarracenia purpurea	Root	--	--	--	
Sesamum indicum	Seed	--	--	--	
Sesamum indicum	Seed Oil	--	--	--	
Strychnos nux-vomica	Seed	--	--	--	
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.
Thevetia peruviana	Plant	--	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Plant	Part	Low High StdDev Reference		
		PPM	PPM	
Triticum aestivum	Seed	--	--	--
Verbascum thapsus	Leaf	--	--	--
Verbascum thapsus	Stem	--	--	--
Verbascum thapsus	Root	--	--	--
Viburnum opulus	Bark	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Viburnum opulus	Root Bark	--	--	--
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	--	--	--
Vitellaria paradoxa	Plant	--	--	--
Vitellaria paradoxa	Seed Oil	--	--	Itoh, O., Uetsuki, T., Tamura, T., Matsumoto, A. 1980. Characterization of Triterpene Alcohols of Seed Oils From Some Species of Theaceae, Phytolaccaceae and Sapotaceae. Lipids 15 6: 407-411.
Vitis vinifera	Stem	--	--	--
Zea mays	Plant	--	--	--