

C ETHANOL

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ETHANOL

ubiquitous

Yes

*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
Abelmoschus esculentus	Fruit	--	--		Wealth of India.
Acorus calamus	Rhizome	--	--		--
Allium cepa	Bulb	--	--		--
Angelica archangelica	Root	--	--		--
Annona muricata	Plant	--	--		--
Artemisia pallens	Plant	--	--		--
Boronia megastigma	Flower	--	--		--
Brassica oleracea var. botrytis l.	Plant	--	--		--
Brassica oleracea var. botrytis l.	Flower	--	--		--
Brassica oleracea var. italica	Plant	--	--		Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Carica papaya	Fruit	--	--		Jim Duke's personal files.
Chrysanthemum x morifolium	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Citrullus lanatus	Fruit Juice	--	--		--
Citrus aurantium	Plant	--	--		--
Citrus mitis	Fruit Juice	11	11	-1	--
Citrus reticulata	Fruit	0	183	-1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus sinensis	Fruit Juice	64	900	1	--
Cucumis melo	Petiole	--	--		--
Cymbopogon nardus	Plant	75	300		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Datura stramonium	Plant	--	--		--
Daucus carota	Root	--	--		--
Ephedra sinica	Shoot	--	2	-0.4494207779171692	--
Eucalyptus globulus	Leaf	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Ficus carica	Fruit	--	--		--
Glycine max	Plant	--	--		--
Hibiscus sabdariffa	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hibiscus sabdariffa	Leaf	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Hibiscus sabdariffa	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Liquidambar orientalis	Resin, Exudate, Sap	--	--		--
Liquidambar styraciflua	Resin, Exudate, Sap	--	--		--
Lycopersicon esculentum	Fruit	--	--		--
Malus domestica	Plant	--	--		--
Mentha spicata	Leaf	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha spicata	Essential Oil	--	--		--
Micromeria congesta	Leaf	1	35		Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.
Micromeria myrtifolia	Shoot	0.1	0.1	-0.4695836935734295	Ozek, T., Kirimer, N., and Baser, K.H.C. 1992. Composition of the Essential Oil of Micromeria myrtifolia Boiss. et Hohen. J. Ess. Oil Res., 4: 79-80.
Nepeta racemosa	Shoot	1	1	-0.4600328387888851	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.
Nepeta racemosa	Shoot	--	1	-0.4600328387888851	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.
Nicotiana tabacum	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
Origanum minutiflorum	Shoot	0.1	7	-0.3963604735585896	Baser, K.H.C., Tumen, G., Sezik, E. 1991. The Essential Oil of Origanum minutiflorum O. Schwarz and P.H. Davis. J. Ess. Oil Res. 3: 445-446.
Panax ginseng	Shoot	--	--		--
Pelargonium graveolens	Essential Oil	--	--		--
Petroselinum crispum	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Petroselinum crispum	Leaf	--	--		--
Prunus persica	Fruit	--	--		--
Psidium guajava	Fruit	--	258000	1	--
Rheum palmatum	Rhizome	--	0.5		--
Ribes nigrum	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosa damascena	Essential Oil	--	--		--
Rosmarinus officinalis	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Rosmarinus officinalis	Resin, Exudate, Sap	--	--		--
Rubus idaeus	Plant	--	--		--
Satureja cuneifolia	Shoot	255	255	2.235430622626959	Tumen, G. 1991. The Volatile Constituents of Satureja cuneifolia. J. Ess. Oil Res., 3: 365-366.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Telosma cordata	Flower	3283	3283		K. Furukawa, T. Arai, S. Hashimoto, (1993); Volatile components of Telosma cordata Merrill flowers, Flavour Fragr. J., Vol 8, 221-223.
Zea mays	Silk Stigma Style	--	--		--