

C ISOVALERIC-ACID

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ISOVALERICACID

*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
Achillea millefolium	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Aloysia citrodora	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Apium graveolens	Seed	1	1		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Arctium lappa	Plant	--	--		--
Capsicum frutescens	Resin, Exudate, Sap	--	--		--
Cymbopogon citratus	Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Helichrysum angustifolium	Plant	--	--		--
Humulus lupulus	Essential Oil	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Ilex paraguariensis	Leaf	--	--		--
Levisticum officinale	Root	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Melaleuca leucadendra	Plant	--	--	--	
Mentha arvensis var. piperascens	Plant	30	90	1	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Mentha x piperita	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Nardostachys jatamansi	Root	--	--	--	
Panax quinquefolius	Plant	7	7	-1	
Pavonia odorata	Root	3450	3450		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Peucedanum ostruthium	Root	--	--	--	
Prunus cerasus	Fruit	--	--	--	
Pueraria montana	Fruit Essent. Oil	--	--	--	
Ruta graveolens	Leaf	--	--	--	
Thuja occidentalis	Branches	--	--	--	
Thymus mastichina	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Valeriana jatamansi	Root	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Valeriana officinalis	Root	--	--	--	
Valeriana officinalis	Root Essent. Oil	--	--	--	
Viburnum prunifolium	Root Bark	130	130	--	