

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Euphrasia officinalis*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	ALUMINUM	Plant	15.3	99.0	-0.5601770011887169	--
101	APIGENIN	Plant				--
112	ASCORBIC-ACID	Plant	10.0	67.0	-0.5779568931624107	--
20	AUCUBIN	Plant		500.0	0.003044452405683529	--
20	AUCUBIN	Shoot				Jim Duke's personal files.
53	BETA-CAROTENE	Plant	11.0	73.0	-0.3318192937264815	--
47	BETA-SITOSTEROL	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
102	CAFFEIC-ACID	Plant		11500.0	0.732750509786938	Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
102	CAFFEIC-ACID	Shoot		6000.0	1.7085918936663076	Jim Duke's personal files.
28	CALCIUM	Plant	1771.0	11500.0	-0.22349528673219693	--
3	CATALPOL	Plant				--
20	CHOLINE	Plant				Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
24	CHROMIUM	Plant	0.1	0.7	-0.7978184456668914	--
7	CHRYSOERIOL	Shoot				Jim Duke's personal files.
2	COBALT	Plant	2.3	14.7	0.002807034712339081	--
13	DIOSMETIN	Plant				Jim Duke's personal files.
61	FERULIC-ACID	Plant				Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
15	FIBER	Plant		91000.0	-0.9744928819249589	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	GALACTOSE	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.
62	GALLIC-ACID	Shoot				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
62	GALLIC-ACID	Plant				--
10	GENIPOSIDE	Plant				--
7	GLUCOSE	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.
6	IRON	Plant	5.0	31.0	-0.7017961103263061	--
22	ISOQUERCITRIN	Plant				--
75	KAEMPFEROL	Plant				Jim Duke's personal files.
78	LUTEOLIN	Shoot				Jim Duke's personal files.
65	MAGNESIUM	Plant	641.0	4160.0	0.029089809747304622	--
14	MANGANESE	Plant	2.0	12.6	-0.6045983914604846	--
39	NIACIN	Plant	52.0	337.0	3.647611827084371	--
2	NONACOSANE	Plant				--
4	PHOSPHORUS	Plant	323.0	2100.0	-0.7153547612101347	--
14	POTASSIUM	Plant	2002.0	13000.0	-0.6135110993447295	--
176	QUERCETIN	Plant				--
15	RIBOFLAVIN	Plant	3.0	18.0	0.45910751299395686	--
87	RUTIN	Plant				--
60	SELENIUM	Plant	0.1	0.5	-0.40520801615606183	--
4	SILICON	Plant	5.0	30.3	-0.3634509523754327	--
1	SODIUM	Plant				--
12	STIGMASTEROL	Plant				--
35	TANNIN	Shoot				Jim Duke's personal files.
31	THIAMIN	Plant		4.3	-0.28049355339724585	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	TIN	Plant	1.2	8.0	-0.8729707962821696	--

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24	VANILLIC-ACID	Plant				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
77	ZINC	Plant	0.5	3.5	-0.47976965929797716	--