

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Centella asiatica

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	2,3-DIHYDROBENZOFURAN	Shoot				Jim Duke's personal files.
2	ALPHA-HUMULENE	Shoot				Jim Duke's personal files.
28	ALPHA-PINENE	Shoot				Jim Duke's personal files.
28	ALPHA-PINENE	Essential Oil		2000.0	-0.5424708227492797	Jim Duke's personal files.
28	ALPHA-PINENE	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.
23	ALPHA-TERPINEOL	Shoot				Jim Duke's personal files.
5	ALUMINUM	Leaf	220.0	2060.0	1.430229610546625	--
112	ASCORBIC-ACID	Plant		138.0	-0.5612889938563121	--
112	ASCORBIC-ACID	Leaf	40.0	374.0	-0.40921766271262444	--
1	ASIATIC-ACID	Plant				--
19	ASIATICOSIDE	Leaf	700.0	1200.0		Jim Duke's personal files.
19	ASIATICOSIDE	Shoot				Jim Duke's personal files.
19	ASIATICOSIDE	Plant				--
3	ASPARTIC-ACID	Plant				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
7	ASTRAGALIN	Leaf				Jim Duke's personal files.
6	BETA-BISABOLENE	Shoot				Jim Duke's personal files.
53	BETA-CAROTENE	Leaf	40.0	369.0	0.46903611401255635	--
5	BETA-ELEMENE	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
5	BETA-ELEMENE	Essential Oil		30000.0	-0.48593246550536906	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	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.
13	BETA-PINENE	Essential Oil		2000.0	-0.6859771042347549	Jim Duke's personal files.
5	BETA-SESQUIPELLANDRENE	Shoot				Jim Duke's personal files.
47	BETA-SITOSTEROL	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
47	BETA-SITOSTEROL	Essential Oil		2000.0	1.0	Jim Duke's personal files.
22	BETULINIC-ACID	Plant		1100.0	-0.49265454919484347	Jim Duke's personal files.
8	BRAHMINOSIDE	Plant		1600.0		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
7	BRAHMOSIDE	Plant		3700.0		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
28	CALCIUM	Leaf	1700.0	15890.0	-0.17404285585996676	--
2	CAMPESTEROL	Essential Oil		2000.0		Jim Duke's personal files.
2	CAMPESTEROL	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.
9	CAMPHENE	Shoot				Jim Duke's personal files.

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41	CAMPHOR	Essential Oil				--
8	CARYOPHYLENE-OXIDE	Shoot				Jim Duke's personal files.
24	CHROMIUM	Leaf	0.1	1.0	-0.5613457205769528	--
2	COBALT	Leaf	0.8	7.3	-0.2554961829884984	--
9	DELTA-CADINENE	Shoot				Jim Duke's personal files.
2	ELAIDIC-ACID	Plant				--
17	FARNESOL	Shoot				Jim Duke's personal files.
15	FIBER	Leaf	20000.0	187000.0	0.3149049121779396	--
11	GAMMA-TERPINENE	Shoot				Jim Duke's personal files.
11	GAMMA-TERPINENE	Essential Oil		4000.0	-0.767502970243684	Jim Duke's personal files.
35	GERANIOL	Shoot				Jim Duke's personal files.
2	GERMACRENE-D	Shoot				Jim Duke's personal files.
2	GERMACRENE-D	Essential Oil		160000.0	1.0	Jim Duke's personal files.
2	GERMACRENE-D	Plant				--
7	GLUCOSE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
8	GLUTAMIC-ACID	Plant				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp

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12	GLYCINE	Plant				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
8	INOSITOL	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	IRON	Leaf	3.0	29.0	-0.8470707525252408	--
22	ISOQUERCITRIN	Leaf				Jim Duke's personal files.
75	KAEMPFEROL	Leaf				Jim Duke's personal files.
75	KAEMPFEROL	Plant				--
1	LIGNOCERIC-ACID	Plant				--
60	LIMONENE	Shoot				Jim Duke's personal files.
53	LINALOOL	Shoot				Jim Duke's personal files.
27	LINOLEIC-ACID	Plant				--
2	MADECASSOSIDE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	MADECASSOSIDE	Shoot				Jim Duke's personal files.
65	MAGNESIUM	Leaf	342.0	3200.0	-0.3574611579280929	--
14	MANGANESE	Leaf	3.0	27.7	-0.41383578503505414	--
2	METHANOL	Plant				--
22	MYRCENE	Shoot				Jim Duke's personal files.
22	MYRCENE	Essential Oil		6000.0	-0.3653970753458515	Jim Duke's personal files.
10	NEROL	Shoot				Jim Duke's personal files.
11	NEROLIDOL	Shoot				Jim Duke's personal files.
39	NIACIN	Leaf	12.0	112.0	0.17636268788895457	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	OLEIC-ACID	Plant				--
2	OXYASIATICOSIDE	Plant				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
13	PALMITIC-ACID	Plant				--
24	PECTIN	Leaf	6420.0	60000.0	0.848030969096559	--
4	PHELLANDRENE	Plant				Jim Duke's personal files.
4	PHOSPHORUS	Leaf	300.0	2800.0	-0.39951935749949974	--
14	POTASSIUM	Leaf	414.0	3870.0	-1.169036049980163	--
3	PYRIDINE	Shoot				Jim Duke's personal files.
176	QUERCETIN	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.
1	RAFFINOSE	Plant				--
15	RIBOFLAVIN	Leaf	1.4	13.0	-0.11692421020247182	--
5	SAPONINS	Leaf	268.0	2500.0	-1.0907412926645894	--
60	SELENIUM	Leaf	0.1	1.2	-0.29034536355768803	--
4	SILICON	Leaf	1.5	14.0	-0.37155124751733193	--
1	SODIUM	Leaf	1113.0	10400.0	1.1998266498363401	--
8	STEARIC-ACID	Plant				--
12	STIGMASTEROL	Plant		40.0	-0.8073781309648732	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp

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12	STIGMASTEROL	Essential Oil		2000.0		Jim Duke's personal files.
35	TANNIN	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.
31	THIAMIN	Leaf	1.5	14.0	1.1869303740705777	--
4	TIN	Leaf	1.3	12.0	-0.4331991239429111	--
1	TOLUENE	Shoot				Jim Duke's personal files.
2	TRANS-BETA-FARNESENE	Plant				--
77	ZINC	Bark		3.4	-0.9069023286651865	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
77	ZINC	Leaf	0.4	3.4	-0.5059022324796413	--