

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Centella asiatica

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	THIAMINE	Leaf	1.5	14.0	2.1449383339093373	--
0	SAPONIN	Plant	11000.0	80000.0	1.6640036208230826	--
0	FIBER(CRUDE)	Leaf		187000.0	1.5553583414475418	--
5	ALUMINUM	Leaf	220.0	2060.0	1.430229610546625	--
1	SODIUM	Leaf	1113.0	10400.0	1.1998266498363401	--
31	THIAMIN	Leaf	1.5	14.0	1.1869303740705777	--
2	GERMACRENE-D	Essential Oil		160000.0	1.0	Jim Duke's personal files.
47	BETA-SITOSTEROL	Essential Oil		2000.0	1.0	Jim Duke's personal files.
24	PECTIN	Leaf	6420.0	60000.0	0.848030969096559	--
0	ASH	Leaf	16050.0	150000.0	0.5487949419882225	--
0	WATER	Plant		893000.0	0.5225843122637761	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
53	BETA-CAROTENE	Leaf	40.0	369.0	0.46903611401255635	--
0	WATER	Leaf		893000.0	0.4258710730214559	--
0	SUGARS	Leaf	9630.0	90000.0	0.3611228146781439	--
0	CARBOHYDRATES	Leaf	70192.0	656000.0	0.35111060724486526	--
15	FIBER	Leaf	20000.0	187000.0	0.3149049121779396	--
0	KILOCALORIES	Leaf	340.0	3180.0	0.2609973458508899	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	BETA-CARYOPHYLLENE	Essential Oil		125000.0	0.1933351753509813	Jim Duke's personal files.
39	NIACIN	Leaf	12.0	112.0	0.17636268788895457	--
0	FAT	Leaf	5992.0	56000.0	-0.00920837567589425	--
15	RIBOFLAVIN	Leaf	1.4	13.0	-0.11692421020247182	--
28	CALCIUM	Leaf	1700.0	15890.0	-0.17404285585996676	--
2	COBALT	Leaf	0.8	7.3	-0.2554961829884984	--
0	EO	Plant	3000.0	6000.0	-0.2841392284469577	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
60	SELENIUM	Leaf	0.1	1.2	-0.29034536355768803	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
65	MAGNESIUM	Leaf	342.0	3200.0	-0.3574611579280929	--
0	ALPHA-COPAENE	Essential Oil		9000.0	-0.36082830563118673	Jim Duke's personal files.
22	MYRCENE	Essential Oil		6000.0	-0.3653970753458515	Jim Duke's personal files.
4	SILICON	Leaf	1.5	14.0	-0.37155124751733193	--
4	PHOSPHORUS	Leaf	300.0	2800.0	-0.39951935749949974	--
112	ASCORBIC-ACID	Leaf	40.0	374.0	-0.40921766271262444	--
14	MANGANESE	Leaf	3.0	27.7	-0.41383578503505414	--
4	TIN	Leaf	1.3	12.0	-0.4331991239429111	--
5	BETA-ELEMENE	Essential Oil		30000.0	-0.48593246550536906	Jim Duke's personal files.
0	EO	Leaf	321.0	6000.0	-0.4868602567711417	--
22	BETULINIC-ACID	Plant		1100.0	-0.49265454919484347	Jim Duke's personal files.
77	ZINC	Leaf	0.4	3.4	-0.5059022324796413	--
28	ALPHA-PINENE	Essential Oil		2000.0	-0.5424708227492797	Jim Duke's personal files.
112	ASCORBIC-ACID	Plant		138.0	-0.5612889938563121	--
24	CHROMIUM	Leaf	0.1	1.0	-0.5613457205769528	--
0	PROTEIN	Leaf	16050.0	150000.0	-0.6169641238666383	--
13	BETA-PINENE	Essential Oil		2000.0	-0.6859771042347549	Jim Duke's personal files.
0	BORNEOL-ACETATE	Essential Oil		2000.0	-0.745653834002719	Jim Duke's personal files.
11	GAMMA-TERPINENE	Essential Oil		4000.0	-0.767502970243684	Jim Duke's personal files.
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
6	IRON	Leaf	3.0	29.0	-0.8470707525252408	--
0	FIBER(DIETARY)	Leaf		302000.0	-0.8718975702234967	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Bark		3.4	-0.9069023286651865	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
5	SAPONINS	Leaf	268.0	2500.0	-1.0907412926645894	--
14	POTASSIUM	Leaf	414.0	3870.0	-1.169036049980163	--
0	INDOCENTOIC-ACID	Plant				--
0	HEPTAN-1-AL	Shoot				Jim Duke's personal files.
0	3-GLUCOSYLKAEMPFEROL	Plant				--
0	PETAN-1-AL	Shoot				Jim Duke's personal files.
0	RHAMNOSE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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.
75	KAEMPFEROL	Leaf				Jim Duke's personal files.
0	ASIATICENTOIC-ACID	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.
19	ASIATICOSIDE	Leaf	700.0	1200.0		Jim Duke's personal files.
0	MADECASSIC-ACID	Plant				--
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
0	HYDROCOTYLIN	Plant		16.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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
0	HEPT-TRANS-2-EN-1-AL	Shoot				Jim Duke's personal files.
53	LINALOOL	Shoot				Jim Duke's personal files.
0	CINEOLE	Essential Oil				--
23	ALPHA-TERPINEOL	Shoot				Jim Duke's personal files.
0	BICYCLOELEMENE	Essential Oil		13000.0		Jim Duke's personal files.
18	OLEIC-ACID	Plant				--
0	INDOCENTELLOSIDE	Plant		4000.0		Jim Duke's personal files.
0	AMINO BUTYRATE	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.
19	ASIATICOSIDE	Shoot				Jim Duke's personal files.
0	MADASIATIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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
0	THANKUNISIDE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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
19	ASIATICOSIDE	Plant				--
2	GERMACRENE-D	Shoot				Jim Duke's personal files.
60	LIMONENE	Shoot				Jim Duke's personal files.
28	ALPHA-PINENE	Shoot				Jim Duke's personal files.
2	ALPHA-HUMULENE	Shoot				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.
27	LINOLEIC-ACID	Plant				--
0	BRAHMIC-ACID	Plant		970.0		--
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
1	ASIATIC-ACID	Plant				--
9	CAMPHENE	Shoot				Jim Duke's personal files.
0	THANKUNIC-ACID	Plant				--
0	CENTOIC-ACID	Plant				--
0	BETA-CHAMIGRENE	Shoot				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-DODECANE	Essential Oil				--
9	DELTA-CADINENE	Shoot				Jim Duke's personal files.
0	ALPHA-CHAMIGRENE	Shoot				Jim Duke's personal files.
1	LIGNOCERIC-ACID	Plant				--
0	BICYCLOELEMENE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	RAFFINOSE	Plant				--
7	GLUCOSE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	OCT-TRANS-2-EN-1-AL	Shoot				Jim Duke's personal files.
35	GERANIOL	Shoot				Jim Duke's personal files.
0	M-XYLENE	Shoot				Jim Duke's personal files.
0	CENTELLOSIDE	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.
11	NEROLIDOL	Shoot				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.
0	BETA-CARYOPHYLLENE	Shoot				Jim Duke's personal files.
0	MYO-INOSITOL	Plant				--
0	2-METHYL-BUTAN-2-OL	Shoot				Jim Duke's personal files.
8	INOSITOL	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	GERMACRENE-D	Plant				--
0	NON-3-EN-2-ONE	Shoot				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FURAN-2-CARBOXALDEHYDE	Shoot				Jim Duke's personal files.
0	WIDDRENE	Shoot				Jim Duke's personal files.
8	STEARIC-ACID	Plant				--
10	NEROL	Shoot				Jim Duke's personal files.
0	RESIN	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.
2	METHANOL	Plant				--
0	CENTELLOSE	Plant				--
1	2,3-DIHYDROBENZOFURAN	Shoot				Jim Duke's personal files.
41	CAMPHOR	Essential Oil				--
75	KAEMPFEROL	Plant				--
0	BETULIC-ACID	Plant		1100.0		=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
0	GERMACRENE	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
22	ISOQUERCITRIN	Leaf				Jim Duke's personal files.
17	FARNESOL	Shoot				Jim Duke's personal files.
1	TOLUENE	Shoot				Jim Duke's personal files.
22	MYRCENE	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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	BETA-BISABOLENE	Shoot				Jim Duke's personal files.
0	MESOINOSITAL	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
0	CENTELLINIC-ACID	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.
0	1-METHYL-4-(1,2,2-TRIMETHYL-CYCLO-PENTYL)-BENZENE	Shoot				Jim Duke's personal files.
0	ISOTHANKUNISIDE	Plant				--
47	BETA-SITOSTEROL	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
11	GAMMA-TERPINENE	Shoot				Jim Duke's personal files.
0	EPIGLOBULOL	Shoot				Jim Duke's personal files.
12	STIGMASTEROL	Essential Oil		2000.0		Jim Duke's personal files.
0	POLYACETYLENES	Root				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	BETA-ACORADIENE	Shoot				Jim Duke's personal files.
0	MEDICASSIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	CENTELLIC-ACID	Plant				--
0	P-VINYL-GUAIACOL	Shoot				Jim Duke's personal files.
0	ISOTHANKUNIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-FARNESENE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ALPHA-ALANINE	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
0	CENTELLA-ASIATICA-COMPOUND-BK	Plant				Jim Duke's personal files.
3	PYRIDINE	Shoot				Jim Duke's personal files.
0	MESO-INOSITOL	Plant		15.0		Jim Duke's personal files.
0	LIGNOCENE	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.
7	ASTRAGALIN	Leaf				Jim Duke's personal files.
0	VELLARINE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ISOBRAHMIC-ACID	Plant		9000.0		=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
5	BETA-ELEMENE	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	HEXAN-1-AL	Shoot				Jim Duke's personal files.
13	PALMITIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	7-GLUCOSYLKAEMPFEROL	Plant				--
8	CARYOPHYLLENE-OXIDE	Shoot				Jim Duke's personal files.
0	POPULNIN	Leaf				Jim Duke's personal files.
2	MADECASSOSIDE	Shoot				Jim Duke's personal files.
0	HYDROCOTYLEGENINS	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.
0	ASIATICOSIDE-B	Leaf				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.
2	TRANS-BETA-FARNESENE	Plant				--
0	BETA-CARYOPHYLLENE	Plant				--
0	HEX-3-EN-2-ONE	Shoot				Jim Duke's personal files.
0	P-CYMOL	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	ELAIDIC-ACID	Plant				--
0	3-GLUCOSYLQUERCETIN	Plant				--
5	BETA-SESQUIPHELLANDRENE	Shoot				Jim Duke's personal files.
2	CAMPESTEROL	Essential Oil		2000.0		Jim Duke's personal files.
4	PHELLANDRENE	Plant				Jim Duke's personal files.
0	LINAMARASE	Leaf				Jim Duke's personal files.
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.
0	ASIATICOSIDE-A	Leaf				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
2	MADECASSOSIDE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.