

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Centella asiatica

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	WATER	Leaf		893000.0	0.4258710730214559	--
0	WATER	Plant		893000.0	0.5225843122637761	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CARBOHYDRATES	Leaf	70192.0	656000.0	0.35111060724486526	--
0	FIBER(DIETARY)	Leaf		302000.0	-0.8718975702234967	--
15	FIBER	Leaf	20000.0	187000.0	0.3149049121779396	--
0	FIBER(CRUDE)	Leaf		187000.0	1.5553583414475418	--
2	GERMACRENE-D	Essential Oil		160000.0	1.0	Jim Duke's personal files.
0	ASH	Leaf	16050.0	150000.0	0.5487949419882225	--
0	PROTEIN	Leaf	16050.0	150000.0	-0.6169641238666383	--
0	BETA-CARYOPHYLLENE	Essential Oil		125000.0	0.1933351753509813	Jim Duke's personal files.
0	SUGARS	Leaf	9630.0	90000.0	0.3611228146781439	--
0	SAPONIN	Plant	11000.0	80000.0	1.6640036208230826	--
24	PECTIN	Leaf	6420.0	60000.0	0.848030969096559	--
0	FAT	Leaf	5992.0	56000.0	-0.00920837567589425	--
5	BETA-ELEMENE	Essential Oil		30000.0	-0.48593246550536906	Jim Duke's personal files.
28	CALCIUM	Leaf	1700.0	15890.0	-0.17404285585996676	--
0	BICYCLOELEMENE	Essential Oil		13000.0		Jim Duke's personal files.
1	SODIUM	Leaf	1113.0	10400.0	1.1998266498363401	--
0	ALPHA-COPAENE	Essential Oil		9000.0	-0.36082830563118673	Jim Duke's personal files.
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
0	EO	Leaf	321.0	6000.0	-0.4868602567711417	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	MYRCENE	Essential Oil		6000.0	-0.3653970753458515	Jim Duke's personal files.
0	EO	Plant	3000.0	6000.0	-0.2841392284469577	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	INDOCENTELLOSIDE	Plant		4000.0		Jim Duke's personal files.
11	GAMMA-TERPINENE	Essential Oil		4000.0	-0.767502970243684	Jim Duke's personal files.
14	POTASSIUM	Leaf	414.0	3870.0	-1.169036049980163	--
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
65	MAGNESIUM	Leaf	342.0	3200.0	-0.3574611579280929	--
0	KILOCALORIES	Leaf	340.0	3180.0	0.2609973458508899	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	PHOSPHORUS	Leaf	300.0	2800.0	-0.39951935749949974	--
5	SAPONINS	Leaf	268.0	2500.0	-1.0907412926645894	--
5	ALUMINUM	Leaf	220.0	2060.0	1.430229610546625	--
0	BORNEOL-ACETATE	Essential Oil		2000.0	-0.745653834002719	Jim Duke's personal files.
13	BETA-PINENE	Essential Oil		2000.0	-0.6859771042347549	Jim Duke's personal files.
28	ALPHA-PINENE	Essential Oil		2000.0	-0.5424708227492797	Jim Duke's personal files.
12	STIGMASTEROL	Essential Oil		2000.0		Jim Duke's personal files.
47	BETA-SITOSTEROL	Essential Oil		2000.0	1.0	Jim Duke's personal files.
2	CAMPESTEROL	Essential Oil		2000.0		Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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
19	ASIATICOSIDE	Leaf	700.0	1200.0		Jim Duke's personal files.
22	BETULINIC-ACID	Plant		1100.0	-0.49265454919484347	Jim Duke's personal files.
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	BRAHMIC-ACID	Plant		970.0		--
112	ASCORBIC-ACID	Leaf	40.0	374.0	-0.40921766271262444	--
53	BETA-CAROTENE	Leaf	40.0	369.0	0.46903611401255635	--
112	ASCORBIC-ACID	Plant		138.0	-0.5612889938563121	--
39	NIACIN	Leaf	12.0	112.0	0.17636268788895457	--
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	--
14	MANGANESE	Leaf	3.0	27.7	-0.41383578503505414	--
0	HYDROCOTYLIN	Plant		16.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	MESO-INOSITOL	Plant		15.0		Jim Duke's personal files.
31	THIAMIN	Leaf	1.5	14.0	1.1869303740705777	--
0	THIAMINE	Leaf	1.5	14.0	2.1449383339093373	--
4	SILICON	Leaf	1.5	14.0	-0.37155124751733193	--
15	RIBOFLAVIN	Leaf	1.4	13.0	-0.11692421020247182	--
4	TIN	Leaf	1.3	12.0	-0.4331991239429111	--
2	COBALT	Leaf	0.8	7.3	-0.2554961829884984	--
77	ZINC	Leaf	0.4	3.4	-0.5059022324796413	--
77	ZINC	Bark		3.4	-0.9069023286651865	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
60	SELENIUM	Leaf	0.1	1.2	-0.29034536355768803	--
24	CHROMIUM	Leaf	0.1	1.0	-0.5613457205769528	--
0	HEPTAN-1-AL	Shoot				Jim Duke's personal files.
0	INDOCENTOIC-ACID	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.
0	3-GLUCOSYLKAEMPFEROL	Plant				--
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.
0	MADECASSIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEPT-TRANS-2-EN-1-AL	Shoot				Jim Duke's personal files.
53	LINALOOL	Shoot				Jim Duke's personal files.
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
18	OLEIC-ACID	Plant				--
0	CINEOLE	Essential Oil				--
23	ALPHA-TERPINEOL	Shoot				Jim Duke's personal files.
0	AMINOBYRATE	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.
2	GERMACRENE-D	Shoot				Jim Duke's personal files.
60	LIMONENE	Shoot				Jim Duke's personal files.
0	THANKUNISIDE	Plant				--
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				--
28	ALPHA-PINENE	Shoot				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
9	CAMPHENE	Shoot				Jim Duke's personal files.
0	THANKUNIC-ACID	Plant				--
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				--
0	BETA-CHAMIGRENE	Shoot				Jim Duke's personal files.
0	N-DODECANE	Essential Oil				--
0	CENTOIC-ACID	Plant				--
0	BICYCLOELEMENE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
9	DELTA-CADINENE	Shoot				Jim Duke's personal files.
0	ALPHA-CHAMIGRENE	Shoot				Jim Duke's personal files.
1	LIGNOCERIC-ACID	Plant				--
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.
1	RAFFINOSE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	GLUCOSE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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	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.
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.
0	NON-3-EN-2-ONE	Shoot				Jim Duke's personal files.
0	FURAN-2-CARBOXALDEHYDE	Shoot				Jim Duke's personal files.
0	WIDDRENE	Shoot				Jim Duke's personal files.
8	STEARIC-ACID	Plant				--
2	GERMACRENE-D	Plant				--
2	METHANOL	Plant				--
0	CENTELLOSE	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.
1	2,3-DIHYDROBENZOFURAN	Shoot				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
41	CAMPHOR	Essential Oil				--
75	KAEMPFEROL	Plant				--
22	ISOQUERCITRIN	Leaf				Jim Duke's personal files.
17	FARNESOL	Shoot				Jim Duke's personal files.
1	TOLUENE	Shoot				Jim Duke's personal files.
0	GERMACRENE	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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.
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.
6	BETA-BISABOLENE	Shoot				Jim Duke's personal files.
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	GAMMA-TERPINENE	Shoot				Jim Duke's personal files.
0	EPIGLOBULOL	Shoot				Jim Duke's personal files.
0	MEDICASSIC-ACID	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	CENTELIC-ACID	Plant				--
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	P-VINYL-GUAIACOL	Shoot				Jim Duke's personal files.
0	ISOTHANKUNIC-ACID	Plant				--
0	BETA-FARNESENE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	CENTELLA-ASIATICA- COMPOUND-BK	Plant				Jim Duke's personal files.
3	PYRIDINE	Shoot				Jim Duke's personal files.
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	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	HEXAN-1-AL	Shoot				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	VELLARINE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
5	BETA-ELEMENE	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
8	CARYOPHYLLENE-OXIDE	Shoot				Jim Duke's personal files.
0	POPULNIN	Leaf				Jim Duke's personal files.
13	PALMITIC-ACID	Plant				--
0	7-GLUCOSYLKAEMPFEROL	Plant				--
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	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.
0	HEX-3-EN-2-ONE	Shoot				Jim Duke's personal files.
2	TRANS-BETA-FARNESENE	Plant				--
0	BETA-CARYOPHYLLENE	Plant				--
5	BETA-SESQUIPHELLANDRENE	Shoot				Jim Duke's personal files.
4	PHELLANDRENE	Plant				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				--

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