

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	INDOCENTOIC-ACID	Plant				--
0	HEPTAN-1-AL	Shoot				Jim Duke's personal files.
0	EO	Leaf	321.0	6000.0	-0.4868602567711417	--
0	BORNEOL-ACETATE	Essential Oil		2000.0	-0.745653834002719	Jim Duke's personal files.
0	PETAN-1-AL	Shoot				Jim Duke's personal files.
0	3-GLUCOSYLKAEMPFEROL	Plant				--
0	RHAMNOSE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	MADECASSIC-ACID	Plant				--
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	HYDROCOTYLIN	Plant		16.0		--
0	HEPT-TRANS-2-EN-1-AL	Shoot				Jim Duke's personal files.
0	CINEOLE	Essential Oil				--
0	BICYCLOLEMENE	Essential Oil		13000.0		Jim Duke's personal files.
0	MADASIATIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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.
0	THANKUNISIDE	Plant				--
0	BRAHMIC-ACID	Plant		970.0		--
0	ALPHA-COPAENE	Essential Oil		9000.0	-0.36082830563118673	Jim Duke's personal files.
0	THANKUNIC-ACID	Plant				--
0	N-DODECANE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CENTOIC-ACID	Plant				--
0	BETA-CHAMIGRENE	Shoot				Jim Duke's personal files.
0	BICYCLOELEMENE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ALPHA-CHAMIGRENE	Shoot				Jim Duke's personal files.
0	OCT-TRANS-2-EN-1-AL	Shoot				Jim Duke's personal files.
0	M-XYLENE	Shoot				Jim Duke's personal files.
0	ASH	Leaf	16050.0	150000.0	0.5487949419882225	--
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.
0	BETA-CARYOPHYLLENE	Shoot				Jim Duke's personal files.
0	KILOCALORIES	Leaf	340.0	3180.0	0.2609973458508899	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	2-METHYL-BUTAN-2-OL	Shoot				Jim Duke's personal files.
0	WATER	Leaf		893000.0	0.4258710730214559	--
0	PROTEIN	Leaf	16050.0	150000.0	-0.6169641238666383	--
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.
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.
0	CENTELLOSE	Plant				--
0	BETA-CARYOPHYLLENE	Essential Oil		125000.0	0.1933351753509813	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	THIAMINE	Leaf	1.5	14.0	2.1449383339093373	--
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.
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	ISOTHANKUNISIDE	Plant				--
0	1-METHYL-4-(1,2,2-TRIMETHYL-CYCLO-PENTYL)-BENZENE	Shoot				Jim Duke's personal files.
0	SUGARS	Leaf	9630.0	90000.0	0.3611228146781439	--
0	EPIGLOBULOL	Shoot				Jim Duke's personal files.
0	MEDICASSIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	CENTELIC-ACID	Plant				--
0	BETA-ACORADIENE	Shoot				Jim Duke's personal files.
0	P-VINYL-GUAIACOL	Shoot				Jim Duke's personal files.
0	BETA-FARNESENE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	WATER	Plant		893000.0	0.5225843122637761	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ISOTHANKUNIC-ACID	Plant				--
0	FAT	Leaf	5992.0	56000.0	-0.00920837567589425	--
0	CENTELLA-ASIATICA-COMPOUND-BK	Plant				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	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.
0	CARBOHYDRATES	Leaf	70192.0	656000.0	0.35111060724486526	--
0	FIBER(DIETARY)	Leaf		302000.0	-0.8718975702234967	--
0	VELLARINE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	HEXAN-1-AL	Shoot				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	POPULNIN	Leaf				Jim Duke's personal files.
0	7-GLUCOSYLKAEMPFEROL	Plant				--
0	SAPONIN	Plant	11000.0	80000.0	1.6640036208230826	--
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	FIBER(CRUDE)	Leaf		187000.0	1.5553583414475418	--
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.
0	3-GLUCOSYLQUERCETIN	Plant				--
0	LINAMARASE	Leaf				Jim Duke's personal files.
0	ASIATICOSIDE-A	Leaf				Jim Duke's personal files.
1	ASIATIC-ACID	Plant				--
1	LIGNOCERIC-ACID	Plant				--
1	RAFFINOSE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	2,3-DIHYDROBENZOFURAN	Shoot				Jim Duke's personal files.
1	TOLUENE	Shoot				Jim Duke's personal files.
1	SODIUM	Leaf	1113.0	10400.0	1.1998266498363401	--
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.
2	COBALT	Leaf	0.8	7.3	-0.2554961829884984	--
2	GERMACRENE-D	Shoot				Jim Duke's personal files.
2	ALPHA-HUMULENE	Shoot				Jim Duke's personal files.
2	GERMACRENE-D	Essential Oil		160000.0	1.0	Jim Duke's personal files.
2	GERMACRENE-D	Plant				--
2	METHANOL	Plant				--
2	MADECASSOSIDE	Shoot				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				--
2	ELAIDIC-ACID	Plant				--
2	CAMPESTEROL	Essential Oil		2000.0		Jim Duke's personal files.
2	MADECASSOSIDE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

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
3	PYRIDINE	Shoot				Jim Duke's personal files.
4	TIN	Leaf	1.3	12.0	-0.4331991239429111	--
4	PHOSPHORUS	Leaf	300.0	2800.0	-0.39951935749949974	--
4	SILICON	Leaf	1.5	14.0	-0.37155124751733193	--
4	PELLANDRENE	Plant				Jim Duke's personal files.
5	BETA-ELEMENE	Essential Oil		30000.0	-0.48593246550536906	Jim Duke's personal files.
5	ALUMINUM	Leaf	220.0	2060.0	1.430229610546625	--
5	SAPONINS	Leaf	268.0	2500.0	-1.0907412926645894	--
5	BETA-ELEMENE	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
5	BETA-SESQUIPELLANDRENE	Shoot				Jim Duke's personal files.
6	BETA-BISABOLENE	Shoot				Jim Duke's personal files.
6	IRON	Leaf	3.0	29.0	-0.8470707525252408	--
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
7	GLUCOSE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	ASTRAGALIN	Leaf				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
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
8	INOSITOL	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
8	STEARIC-ACID	Plant				--
8	CARYOPHYLLENE-OXIDE	Shoot				Jim Duke's personal files.
9	CAMPHENE	Shoot				Jim Duke's personal files.
9	DELTA-CADINENE	Shoot				Jim Duke's personal files.
10	NEROL	Shoot				Jim Duke's personal files.
11	NEROLIDOL	Shoot				Jim Duke's personal files.
11	GAMMA-TERPINENE	Shoot				Jim Duke's personal files.
11	GAMMA-TERPINENE	Essential Oil		4000.0	-0.767502970243684	Jim Duke's personal files.

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
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
12	STIGMASTEROL	Essential Oil		2000.0		Jim Duke's personal files.
13	BETA-PINENE	Essential Oil		2000.0	-0.6859771042347549	Jim Duke's personal files.
13	PALMITIC-ACID	Plant				--
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.
14	POTASSIUM	Leaf	414.0	3870.0	-1.169036049980163	--
14	MANGANESE	Leaf	3.0	27.7	-0.41383578503505414	--
15	FIBER	Leaf	20000.0	187000.0	0.3149049121779396	--
15	RIBOFLAVIN	Leaf	1.4	13.0	-0.11692421020247182	--
17	FARNESOL	Shoot				Jim Duke's personal files.
18	OLEIC-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				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	BETULINIC-ACID	Plant		1100.0	-0.49265454919484347	Jim Duke's personal files.
22	ISOQUERCITRIN	Leaf				Jim Duke's personal files.
22	MYRCENE	Shoot				Jim Duke's personal files.
22	MYRCENE	Essential Oil		6000.0	-0.3653970753458515	Jim Duke's personal files.
23	ALPHA-TERPINEOL	Shoot				Jim Duke's personal files.
24	CHROMIUM	Leaf	0.1	1.0	-0.5613457205769528	--
24	PECTIN	Leaf	6420.0	60000.0	0.848030969096559	--
27	LINOLEIC-ACID	Plant				--
28	ALPHA-PINENE	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.
28	ALPHA-PINENE	Essential Oil		2000.0	-0.5424708227492797	Jim Duke's personal files.
28	CALCIUM	Leaf	1700.0	15890.0	-0.17404285585996676	--
31	THIAMIN	Leaf	1.5	14.0	1.1869303740705777	--
35	GERANIOL	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.
39	NIACIN	Leaf	12.0	112.0	0.17636268788895457	--
41	CAMPHOR	Essential Oil				--
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.
53	BETA-CAROTENE	Leaf	40.0	369.0	0.46903611401255635	--
53	LINALOOL	Shoot				Jim Duke's personal files.
60	LIMONENE	Shoot				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	SELENIUM	Leaf	0.1	1.2	-0.29034536355768803	--
65	MAGNESIUM	Leaf	342.0	3200.0	-0.3574611579280929	--
75	KAEMPFEROL	Leaf				Jim Duke's personal files.
75	KAEMPFEROL	Plant				--
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.
112	ASCORBIC-ACID	Plant		138.0	-0.5612889938563121	--
112	ASCORBIC-ACID	Leaf	40.0	374.0	-0.40921766271262444	--
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.