

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	HEXAN-1-AL	Shoot				Jim Duke's personal files.
0	VELLARINE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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.
18	OLEIC-ACID	Plant				--
0	CINEOLE	Essential Oil				--
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
8	CARYOPHYLLENE-OXIDE	Shoot				Jim Duke's personal files.
19	ASIATICOSIDE	Plant				--
2	MADECASSOSIDE	Shoot				Jim Duke's personal files.
0	ASIATICOSIDE-B	Leaf				Jim Duke's personal files.
1	TOLUENE	Shoot				Jim Duke's personal files.
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

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEX-3-EN-2-ONE	Shoot				Jim Duke's personal files.
2	TRANS-BETA-FARNESENE	Plant				--
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.
27	LINOLEIC-ACID	Plant				--
0	BRAHMIC-ACID	Plant		970.0		--
5	BETA-SESQUIPHELLANDRENE	Shoot				Jim Duke's personal files.
2	CAMPESTEROL	Essential Oil		2000.0		Jim Duke's personal files.
1	ASIATIC-ACID	Plant				--
0	LINAMARASE	Leaf				Jim Duke's personal files.
0	ASIATICOSIDE-A	Leaf				Jim Duke's personal files.
12	STIGMASTEROL	Essential Oil		2000.0		Jim Duke's personal files.
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
0	HEPTAN-1-AL	Shoot				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	N-DODECANE	Essential Oil				--
0	CENTOIC-ACID	Plant				--
1	LIGNOCERIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BICYCLOELEMENE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	RHAMNOSE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
75	KAEMPFEROL	Leaf				Jim Duke's personal files.
19	ASIATICOSIDE	Leaf	700.0	1200.0		Jim Duke's personal files.
1	RAFFINOSE	Plant				--
3	PYRIDINE	Shoot				Jim Duke's personal files.
7	GLUCOSE	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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	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	HEPT-TRANS-2-EN-1-AL	Shoot				Jim Duke's personal files.
23	ALPHA-TERPINEOL	Shoot				Jim Duke's personal files.
0	BICYCLOELEMENE	Essential Oil		13000.0		Jim Duke's personal files.
0	INDOCENTELLOSIDE	Plant		4000.0		Jim Duke's personal files.
19	ASIATICOSIDE	Shoot				Jim Duke's personal files.
0	POPULNIN	Leaf				Jim Duke's personal files.
2	GERMACRENE-D	Plant				--
0	THANKUNISIDE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
2	METHANOL	Plant				--
0	CENTELLOSE	Plant				--
2	GERMACRENE-D	Shoot				Jim Duke's personal files.
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
28	ALPHA-PINENE	Shoot				Jim Duke's personal files.
2	ALPHA-HUMULENE	Shoot				Jim Duke's personal files.
4	PHELLANDRENE	Plant				Jim Duke's personal files.
0	GERMACRENE	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	THANKUNIC-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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	MESOSINOSITAL	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				--
47	BETA-SITOSTEROL	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	BETA-CHAMIGRENE	Shoot				Jim Duke's personal files.
9	DELTA-CADINENE	Shoot				Jim Duke's personal files.
0	ALPHA-CHAMIGRENE	Shoot				Jim Duke's personal files.
0	PETAN-1-AL	Shoot				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	MEDICASSIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	CENTELIC-ACID	Plant				--
0	OCT-TRANS-2-EN-1-AL	Shoot				Jim Duke's personal files.
35	GERANIOL	Shoot				Jim Duke's personal files.
53	LINALOOL	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.
11	NEROLIDOL	Shoot				Jim Duke's personal files.
0	BETA-CARYOPHYLLENE	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	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
8	STEARIC-ACID	Plant				--
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	NON-3-EN-2-ONE	Shoot				Jim Duke's personal files.
0	FURAN-2-CARBOXALDEHYDE	Shoot				Jim Duke's personal files.
60	LIMONENE	Shoot				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

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	BETA-ELEMENE	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
10	NEROL	Shoot				Jim Duke's personal files.
1	2,3-DIHYDROBENZOFURAN	Shoot				Jim Duke's personal files.
41	CAMPHOR	Essential Oil				--
13	PALMITIC-ACID	Plant				--
0	7-GLUCOSYLKAEMPFEROL	Plant				--
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.
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.
22	ISOQUERCITRIN	Leaf				Jim Duke's personal files.
17	FARNESOL	Shoot				Jim Duke's personal files.
0	BETA-CARYOPHYLLENE	Plant				--
22	MYRCENE	Shoot				Jim Duke's personal files.
6	BETA-BISABOLENE	Shoot				Jim Duke's personal files.
9	CAMPHENE	Shoot				Jim Duke's personal files.
0	1-METHYL-4-(1,2,2-TRIMETHYL-CYCLO-PENTYL)-BENZENE	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				--
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
11	GAMMA-TERPINENE	Shoot				Jim Duke's personal files.
0	EPIGLOBULOL	Shoot				Jim Duke's personal files.
0	INDOCENTOIC-ACID	Plant				--
0	BETA-ACORADIENE	Shoot				Jim Duke's personal files.
0	M-XYLENE	Shoot				Jim Duke's personal files.
0	P-VINYL-GUAIACOL	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.
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				--
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	CENTELLA-ASIATICA-COMPOUND-BK	Plant				Jim Duke's personal files.
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	MESO-INOSITOL	Plant		15.0		Jim Duke's personal files.
7	ASTRAGALIN	Leaf				Jim Duke's personal files.
0	WIDDRENE	Shoot				Jim Duke's personal files.
14	POTASSIUM	Leaf	414.0	3870.0	-1.169036049980163	--
5	SAPONINS	Leaf	268.0	2500.0	-1.0907412926645894	--
77	ZINC	Bark		3.4	-0.9069023286651865	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FIBER(DIETARY)	Leaf		302000.0	-0.8718975702234967	--
6	IRON	Leaf	3.0	29.0	-0.8470707525252408	--
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
11	GAMMA-TERPINENE	Essential Oil		4000.0	-0.767502970243684	Jim Duke's personal files.
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.
0	PROTEIN	Leaf	16050.0	150000.0	-0.6169641238666383	--
24	CHROMIUM	Leaf	0.1	1.0	-0.5613457205769528	--
112	ASCORBIC-ACID	Plant		138.0	-0.5612889938563121	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
28	ALPHA-PINENE	Essential Oil		2000.0	-0.5424708227492797	Jim Duke's personal files.
77	ZINC	Leaf	0.4	3.4	-0.5059022324796413	--
22	BETULINIC-ACID	Plant		1100.0	-0.49265454919484347	Jim Duke's personal files.
0	EO	Leaf	321.0	6000.0	-0.4868602567711417	--
5	BETA-ELEMENE	Essential Oil		30000.0	-0.48593246550536906	Jim Duke's personal files.
4	TIN	Leaf	1.3	12.0	-0.4331991239429111	--
14	MANGANESE	Leaf	3.0	27.7	-0.41383578503505414	--
112	ASCORBIC-ACID	Leaf	40.0	374.0	-0.40921766271262444	--
4	PHOSPHORUS	Leaf	300.0	2800.0	-0.39951935749949974	--
4	SILICON	Leaf	1.5	14.0	-0.37155124751733193	--
22	MYRCENE	Essential Oil		6000.0	-0.3653970753458515	Jim Duke's personal files.
0	ALPHA-COPAENE	Essential Oil		9000.0	-0.36082830563118673	Jim Duke's personal files.
65	MAGNESIUM	Leaf	342.0	3200.0	-0.3574611579280929	--
60	SELENIUM	Leaf	0.1	1.2	-0.29034536355768803	--
0	EO	Plant	3000.0	6000.0	-0.2841392284469577	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	COBALT	Leaf	0.8	7.3	-0.2554961829884984	--
28	CALCIUM	Leaf	1700.0	15890.0	-0.17404285585996676	--
15	RIBOFLAVIN	Leaf	1.4	13.0	-0.11692421020247182	--
0	FAT	Leaf	5992.0	56000.0	-0.00920837567589425	--
39	NIACIN	Leaf	12.0	112.0	0.17636268788895457	--
0	BETA-CARYOPHYLLENE	Essential Oil		125000.0	0.1933351753509813	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
15	FIBER	Leaf	20000.0	187000.0	0.3149049121779396	--
0	CARBOHYDRATES	Leaf	70192.0	656000.0	0.35111060724486526	--
0	SUGARS	Leaf	9630.0	90000.0	0.3611228146781439	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	WATER	Leaf		893000.0	0.4258710730214559	--
53	BETA-CAROTENE	Leaf	40.0	369.0	0.46903611401255635	--
0	WATER	Plant		893000.0	0.5225843122637761	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Leaf	16050.0	150000.0	0.5487949419882225	--
24	PECTIN	Leaf	6420.0	60000.0	0.848030969096559	--
47	BETA-SITOSTEROL	Essential Oil		2000.0	1.0	Jim Duke's personal files.
2	GERMACRENE-D	Essential Oil		160000.0	1.0	Jim Duke's personal files.
31	THIAMIN	Leaf	1.5	14.0	1.1869303740705777	--
1	SODIUM	Leaf	1113.0	10400.0	1.1998266498363401	--
5	ALUMINUM	Leaf	220.0	2060.0	1.430229610546625	--
0	FIBER(CRUDE)	Leaf		187000.0	1.5553583414475418	--
0	SAPONIN	Plant	11000.0	80000.0	1.6640036208230826	--
0	THIAMINE	Leaf	1.5	14.0	2.1449383339093373	--