

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Piper methysticum

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	TETRAHYDROYANGONIN	Stem				--
0	DEMETHOXYANGONIN	Leaf				--
18	CINNAMIC-ACID	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	DEMETHOXYANGONIN	Plant				--
0	METHYLENE-DIOXY-3,4-CINNAMAOYLACETONE	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	11,12-DIMETHOXYDIHYDROKAWAIN	Plant				--
0	FLAVOKAVIN-A	Plant				--
18	METHYSTICIN	Plant				--
0	YANGONIN-I	Plant				--
0	5,6-DIHYDROYANGONIN	Root				--
0	FLAVOKAWIN-A	Root				--
0	TETRAHYDROYANGONIN	Plant				--
0	DEMETHOXYANGONIN	Stem				--
0	CAPRONIC-ACID	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CINNAMYLIDENACETOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYLENE-DIOXY-3,4-CINNAMAOLYLKETONE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	P-METHOXY-PHENYL-ACETIC-ACID	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
29	KAWAIN	Leaf				--
2	CAMPESTEROL	Rhizome				--
0	HEXADECAN-1-OL	Rhizome				--
0	KAWAINIC-ACID	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	5,6-DEHYDROKAWAIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	EICOSAN-1-OL	Rhizome				--
0	11-METHOXY-12-HYDROXY-DEHYDROKAWAIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	DEMETHOXYANGONIN	Rhizome				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
20	BENZOIC-ACID	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
18	CINNAMIC-ACID	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	MALTOSE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
47	BETA-SITOSTEROL	Rhizome				--
29	KAWAIN	Plant				--
0	11-HYDROXY-YANGONIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	DOCOSAN-1-OL	Rhizome				--
0	2-METHOXYCINNAMIC-ACID-PYRROLIDIDE	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	DEMETHOXY-YANGONIN	Root				--
6	ANISIC-ACID	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
20	BENZOIC-ACID	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	M-METHOXYCINNAMIC-ACID-PYRROLIDIDE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HYDROXYCINNAMIC-ACID	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
29	KAWAIN	Stem				--
47	BETA-SITOSTEROL	Leaf				--
0	FLAVOKAWIN-A	Rhizome				--
0	FLAVOKAWIN-B	Plant				--
5	5,6-DEHYDROKAWAIN	Leaf				--
3	3,4-METHYLENE-DIOXYCINNAMIC-ACID-BORNYL-ESTER	Root				--
0	TETRADECAN-1-OL	Rhizome				--
0	DEHYDROMETHYSTICIN	Plant				--
0	5-DIHYDROYANGONIN	Plant				--
0	FLAVOKAVIN-B	Root				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	7-8-DIHYDROKAWAIN	Rhizome				--
0	DODECAN-1-OL	Rhizome				--
0	DIMETHOXYKAVAIN	Plant				--
0	FLAVOKAVIN-A	Root				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	FLAVOKAWIN-A	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	YANGONIN	Stem				--
18	DIHYDROMETHYSTICIN	Stem				--
0	4-OXO-N-NANANOIC-ACID	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	TETRACOSAN-1-OL	Rhizome				--
0	DEHYDROKAWAIN	Stem				--
0	5,6,7,8-TETRAHYDROYANGONIN	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	HYDROXYKAWAIN	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	FLAVOKAWIN-C	Rhizome				--
0	5,6,7,8-TETRAHYDROYANGONIN	Rhizome				--
0	CINNAMIC-ACID-PYRROLIDIDE	Plant				--
14	SUCROSE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
18	DIHYDROMETHYSTICIN	Leaf				--
0	STIGMASTANOL	Rhizome				--
12	YANGONIN	Leaf				--
0	3,4-(METHYLENE-DIOXY)CINNAMYLIDENACE TOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FLAVOKAWIN-C	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CINNAMALAKETONE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	STIGMASTENDIONE	Plant				--
0	DIHYDROKAWAIN-5-OL	Rhizome				--
18	DIHYDROMETHYSTICIN	Plant				--
0	DEHYDROKAWAIN	Root				--
0	TETRAHYDROYANGONIN	Root				--
0	2',4'-DIMETHYLCHALCONARINGENIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	GLUCOSE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	FLAVOKAWIN-B	Leaf				--
0	11-METHOXYANGONIN	Rhizome				--
0	11,12-DIMETHOXYDIHYDROKAWAIN	Rhizome				--
0	STIGMASTEN-4,3,6-DIONE	Plant				--
14	DIHYDROKAWAIN	Stem				--
0	CINNAMALACETONE	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	DIHYDROKAWAIN-5-OL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OCTADECAN-1-OL	Rhizome				--
12	STIGMASTEROL	Rhizome				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	11-METHOXYANGONIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	FRUCTOSE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	FLAVOKAWIN-B	Rhizome				--
0	11-METHOXYNORYANGONIN	Rhizome				--
0	YANGOININ	Rhizome				--
0	CINNAMIC-ACID-PYRROLIDIDE	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
14	DIHYDROKAWAIN	Plant				--
2	PHENYLACETIC-ACID	Rhizome				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	11-METHOXYNORYANGONIN	Plant				--
0	FLAVOKAVIN-C	Plant				--
0	FLAVOKAWIN-A	Leaf				--
12	YANGONIN	Plant				--
0	YANGONIN-III	Plant				--
0	7,8-DIHYDROYANGONIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	TRANS-PHYTOL	Rhizome				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	DIHYDROKAWAIN	Leaf				--
0	DESMETHOXYANGONIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	OXALIC-ACID	Root				Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.
18	METHYSTICIN	Stem				--
1	CHOLESTEROL	Rhizome				--
0	11-HYDROXY-12-METHOXYDIHYDROKAWAIN	Plant				--
0	FLAVOKAVIN-B	Plant				--
0	PIPERMETHYSTINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	YANGONIN-II	Plant				--
0	7-8-DIHYDROKAWAIN	Plant				--
0	CEPHARADIONE-A	Root		2.0		--
0	(+)-5-6-7-8-TETRAHYDROYANGONIN	Rhizome		3.0		--
0	11-HYDROXY-12-METHOXYDIHYDROKAWAIN	Root		9.0		--
0	11,12-DIMETHOXYDIHYDROKAWAIN	Root		22.0		--
1	5,7-DIMETHOXYFLAVONE	Root		40.0		--
6	PINOSTROBIN	Root		70.0		--
0	COMPOUND-A	Root		90.0		--
18	METHYSTICIN	Root		140.0		--
18	DIHYDROMETHYSTICIN	Root		160.0		--
0	FLAVOKAWAIN	Root		200.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FLAVOKAWAIN-C	Plant		200.0		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
12	YANGONIN	Root		280.0		--
3	CINNAMIC-ACID-BORNYL-ESTER	Root		300.0		--
29	KAWAIN	Root		306.0		--
14	DIHYDROKAWAIN	Root		740.0		--
0	FLAVOKAWIN-B	Resin, Exudate, Sap		1400.0		--
0	FLAVOKAWIN-A	Resin, Exudate, Sap		1620.0		--
0	PIPERMETHYSTINE	Leaf		1700.0		--
0	DOCOSANOL	Root		2000.0		--
1	EICOSANOL	Root		2100.0		--
0	TETRACOSANOL	Root		3200.0		--
1	HEXADECANOL	Root		3600.0		--
0	OCTADECANOL	Root		5300.0		--
18	METHYSTICIN	Leaf		7100.0		--
18	DIHYDROMETHYSTICIN	Rhizome	5000.0	8500.0		--
12	YANGONIN	Rhizome	6800.0	10000.0		--
0	DESMETHOXYANGONIN	Rhizome		10000.0		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	TRANS-PHYTOL	Root		10500.0		--
14	DIHYDROKAWAIN	Rhizome	6000.0	10500.0		--
0	DEHYDROKAWAIN	Resin, Exudate, Sap		11100.0		--
29	KAWAIN	Rhizome	9300.0	12000.0		--
18	METHYSTICIN	Rhizome	12000.0	13400.0		--
18	METHYSTICIN	Resin, Exudate, Sap		22200.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3-4-METHYLENEDIOXY-CINNAMYLIDENEACETONE	Resin, Exudate, Sap		25450.0		--
0	SUGARS	Root		32000.0	-0.6957589764007501	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ASH	Root		32000.0	-1.0153986345301809	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
29	KAWAIN	Resin, Exudate, Sap		33800.0		--
0	PROTEIN	Root		36000.0	-0.925459680358799	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
12	YANGONIN	Resin, Exudate, Sap		43300.0		--
0	RESIN	Root		53000.0	1.582097407375253	Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.
0	CINNAMALACETONE	Resin, Exudate, Sap		64550.0		--
0	WATER	Root		120000.0	-4.249475521429359	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
47	BETA-SITOSTEROL	Root		166000.0	3.7415916306490002	--
15	FIBER	Root		200000.0	2.4848485237263582	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	KAVALACTONES	Root	30000.0	200000.0		--
0	RESINIC-ACID	Root		233000.0		Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
5	STARCH	Root		430000.0	0.47798800143335857	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.