

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Rheum palmatum

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
30	(+)-CATECHIN	Rhizome		14275.0	1.0000000000000002	--
0	1'-O-GALLOYL-SUCROSE	Rhizome		12.5		--
4	1,2,6-TRI-O-GALLOYL-BETA-D-GLUCOSE	Rhizome		553.1		--
0	1,3-DIETHYL-NAPHTHALENE	Rhizome		0.5		--
0	1,5-DIMETHYL-NAPHTHALENE	Rhizome		0.5		--
0	1-2-DI-O-GALLOYL-6-CINNAMOYL-BETA-D-GLUCOSE	Rhizome		96.9		--
0	1-6-DI-O-GALLOYL-2-O-CINNAMOYL-BETA-D-GLUCOSE	Rhizome		121.9		--
0	1-6-DI-O-GALLOYL-BETA-D-GLUCOSE	Rhizome		143.8		--
0	1-O-GALLOYL-2-O-CINNAMOYL-BETA-D-GLUCOSE	Rhizome		75.0		--
0	1-O-GALLOYL-6-O-CINNAMOYL-BETA-D-GLUCOSE	Rhizome		40.6		--
0	1-O-GALLOYL-FRUCTOSE	Rhizome				--
0	2,3,5-TRIMETHYL-NAPHTHALENE	Rhizome		0.5		--
0	2,6-DIMETHYL-NAPHTHALENE	Rhizome		0.5		--
0	2-METHYL-NAPHTHALENE	Rhizome		0.5		--
0	2-O-CINNAMOYL-1-O-GALLOYL-BETA-D-GLUCOPYRANOSE	Root				--
0	2-PENTYL-FURAN	Rhizome		0.5		--
0	2-PHENYLBENZALDEHYDE	Rhizome		0.5		--
0	2-PHENYLETHANOL	Rhizome		0.5		--
0	3,4-DIMETHOXY-BENZOIC-ACID	Rhizome		0.5		--
0	3,4-DIMETHYL-HEXAN-3,4-DIOL	Rhizome		0.5		--
0	3,5,4'-TRIHYDROXYSTILBENE-4'-O-BETA-D-GLUCOPYRANOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3-METHYL-DIBENZOTHIOPHENE	Rhizome		0.5		--
0	4'-O-GALLOYL-SUCROSE	Rhizome		28.1		--
0	4'-O-METHYL-PICEID	Root		248.0		--
0	4-(P-HYDROXYPHENYL)-2-BUTANONE-BETA-D-GLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	4-METHYL-DIBENZOTHIOPHENE	Rhizome		0.5		--
0	5-METHYL-2-FURFURAL	Rhizome		0.5		--
0	6-O-GALLOYL-GLUCOSE	Rhizome		46.9		--
0	6-O-GALLOYL-SUCROSE	Rhizome	25.0	125.0		--
0	8-GLUCOSYL-RHEIN-ANTHRONE	Root				--
11	ALIZARIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
24	ALOE-EMODIN	Tissue Culture				--
24	ALOE-EMODIN	Rhizome				--
24	ALOE-EMODIN	Root		2030.0		--
0	ALOE-EMODIN-8-BETA-D-GLUCOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ALOE-EMODIN-8-O-BETA-D-GLUCOSIDE	Rhizome				--
0	ALOE-EMODIN-DIANTHRONE	Root				--
0	ALOE-EMODIN-DIANTHRONE-GLYCOSIDE	Root				--
0	ALOE-EMODIN-MONOGLYCOSIDE	Root				--
0	ALPHA-CADINENE	Rhizome		0.5		--
0	ALPHA-COPAENE	Rhizome		50.0		--
0	ALPHA-HIMACHALENE	Rhizome		1.0		--
2	ALPHA-HUMULENE	Rhizome		1.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-MUUROLENE	Rhizome		19.0		--
0	ALPHA-SANTALENE	Rhizome		1.5		--
23	ALPHA-TERPINEOL	Rhizome		2.0	-1.0681270706037798	--
36	ANETHOLE	Rhizome		1.5		--
0	ANTHRAQUINONE	Bulb				--
0	ANTHRAQUINONE	Rhizome				--
6	ANTHRAQUINONES	Rhizome				--
6	ANTHRAQUINONES	Root	14000.0	50000.0	1.3513884921632264	--
3	AR-CURCUMENE	Rhizome		5.0	-1.0	--
24	BENZALDEHYDE	Rhizome		1.5		--
9	BENZYL-ALCOHOL	Rhizome		0.5		--
5	BETA-ELEMENE	Rhizome		0.5	-1.3361915461944083	--
13	BETA-EUDESOL	Rhizome		0.5	-1.0	--
0	BETA-GLUCOGALLIN	Rhizome		43.8		--
0	BETA-GURJUNENE	Rhizome		0.5	-1.0	--
0	BUTANOL	Rhizome		0.5		--
0	CADINA-1,4-DIENE	Rhizome		4.0		--
0	CALAMENENE	Rhizome		9.0	-1.0	--
28	CALCIUM	Rhizome	9630.0	12400.0	1.1918205250020704	--
3	CEDROL	Rhizome		1.0		--
0	CHROMONES	Rhizome				--
5	CHRYSAZIN	Root				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	CHRYSOPHANEIN	Root		34.0		--
6	CHRYSOPHANIC-ACID	Root		2100.0	-1.0	--
6	CHRYSOPHANIC-ACID	Petiole				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	CHRYSOPHANIC-ACID	Bulb				--
6	CHRYSOPHANIC-ACID	Rhizome				--
6	CHRYSOPHANIC-ACID	Tissue Culture				--
0	CHRYSOPHANIC-ACID-1-O-BETA-D-GLUCOSIDE	Rhizome				--
0	CHRYSOPHANIC-ACID-8-O-BETA-D-GLUCOSIDE	Rhizome				--
10	CHRYSOPHANOL	Root	690.0	3190.0		--
0	CHRYSOPHANOL-DIANTHRONE	Root				--
18	CINNAMIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	CINNAMIC-ALDEHYDE	Rhizome		19.0		--
0	CITREOROSIN	Rhizome				--
12	COPPER	Rhizome	6.0	10.0	-0.12058216844617241	--
0	CYCLOHEXANONE	Rhizome		0.5		--
0	D-CATECHOL	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	DECANAL	Rhizome		0.5		--
3	DECANOIC-ACID	Rhizome		2.5		--
2	DECANOL	Rhizome		0.5		--
9	DELTA-CADINENE	Rhizome		28.5	-0.7453256045840846	--
0	DIRHEIN	Rhizome				--
0	DOCOSANE	Rhizome		0.5		--
0	DODECANE	Rhizome		0.5		--
1	DODECANOIC-ACID	Rhizome		0.5		--
1	DODECANOL	Rhizome		0.5		--
0	EICOSANE	Rhizome		0.5		--
58	EMODIN	Root		690.0	-1.2102325843089674	--
58	EMODIN	Petiole				--
58	EMODIN	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
58	EMODIN	Rhizome				--
0	EMODIN-1-O-BETA-D-GLUCOSIDE	Rhizome				--
0	EMODIN-DIANTHRONE	Root				--
0	EMODIN-GLYCOSIDE	Root				--
0	EMODIN-MONOGLYCOSIDE	Root				--
0	EO	Rhizome		500.0	-0.6718362741586275	--
24	ETHANOL	Rhizome		0.5		--
6	ETHYL-ACETATE	Rhizome		5.0		--
6	FURFURAL	Rhizome		0.5	-1.0	--
62	GALLIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	GAMMA-CADINENE	Rhizome		0.5		--
0	GAMMA-MUUROLENE	Rhizome		9.0	-1.0	--
7	GLUCOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	HENEICOSANE	Rhizome		0.5		--
0	HEPTADECANE	Rhizome		0.5		--
0	HEPTANAL	Rhizome		0.5		--
0	HEPTANOL	Rhizome		1.5		--
1	HEPTYL-ACETATE	Rhizome		0.5		--
0	HEXADECAHYDROPYRANE	Rhizome		1.0		--
0	HEXADECANE	Rhizome		0.5		--
0	HEXADECANOIC-ACID	Rhizome		110.0		--
5	HEXANAL	Rhizome		0.5		--
2	HEXANOIC-ACID	Rhizome		2.5		--
3	HEXANOL	Rhizome		0.5		--
14	HYPERIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
6	IRON	Rhizome	100.0	180.0	-0.5401664620038916	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
1	ISOMENTHOL	Rhizome		0.5		--
8	M-CRESOL	Rhizome		0.5		--
65	MAGNESIUM	Rhizome	1980.0	2560.0	0.9440487302203782	--
14	MANGANESE	Rhizome	19.0	46.0	-0.5308445390601292	--
63	MENTHOL	Rhizome		0.5	-1.0	--
20	METHYL-EUGENOL	Rhizome	0.5	27.0	-1.0	--
0	METHYL- HEXADECANOATE	Rhizome		1.5		--
0	METHYL-LINOLEATE	Rhizome		1.5		--
0	METHYL- OCTADECANOATE	Rhizome		47.0		--
0	METHYL-TRIDECANOATE	Rhizome		0.5		--
0	NAPHTHALENE- GLYCOSIDES	Rhizome				--
0	NONADECANE	Rhizome		0.5		--
0	NONANAL	Rhizome		1.5	-1.0	--
2	NONANOIC-ACID	Rhizome		3.0		--
0	OCTADECANE	Rhizome	0.5	2.0		--
0	OCTAN-3-OL	Rhizome		0.5		--
0	OCTANAL	Rhizome		0.5		--
5	OCTANOIC-ACID	Rhizome		0.5		--
8	P-CRESOL	Rhizome		0.5		--
16	P-CYMENE	Rhizome		0.5	-0.5176040127385256	--
20	PAEONOL	Rhizome		80.0		--
0	PALMIDIN-A	Root				--
0	PALMIDIN-B	Root				--
0	PALMIDIN-C	Root				--
0	PALMIDIN-D	Root				--
0	PENTADECANAL	Rhizome		0.5		--
0	PENTADECANE	Rhizome		0.5		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	PENTADECANOIC-ACID	Rhizome		12.5		--
26	PHENOL	Rhizome		0.5		--
0	PHENYLBUTANONE-GLYCOSIDES	Rhizome				--
5	PHYSCION	Root		1660.0	-1.0	--
5	PHYSCION	Rhizome				--
5	PHYSCION	Tissue Culture				--
0	PHYSCION-8-GENTIOBIOSIDE	Root				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	PHYSCION-8-GLUCOSIDE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	PHYSCION-8-O-BETA-D-GENTIOBIOSIDE	Root				--
0	PHYSCION-DIANTHRONE	Root				--
0	PHYSCION-DIGLUCOSIDE	Root				--
0	PHYSCION-DIGLYCOSIDE	Root				--
0	PHYSCION-MONOGLUCOSIDE	Root				--
0	PHYSCIONIN	Root		29.9		--
14	POTASSIUM	Rhizome	6330.0	21600.0	0.9590628085555876	--
0	PULMATIN	Root		24.9		--
44	QUERCITRIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
1	RHAPONTICIN	Root				--
0	RHAPONTIN	Root		464.7		--
0	RHEIDIN-A	Root				--
0	RHEIDIN-B	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	RHEIDIN-C	Root				--
18	RHEIN	Root		14300.0	1.0	--
18	RHEIN	Rhizome				--
0	RHEIN-8-O-BETA-D-GLUCOSIDE	Rhizome				--
0	RHEIN-ANTHRONE	Root				--
0	RHEIN-MONOGLYCOSIDE	Root				--
0	RHEINOSIDE-A	Leaf				--
0	RHEINOSIDE-A	Rhizome				--
0	RHEINOSIDE-C	Rhizome				--
0	RHEINOSIDE-D	Rhizome				--
0	RHEINOSIDE-D	Stem				--
0	RHEINOSIDES	Root		12900.0		--
0	RHEOSMIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	RHEUM-PECTIC-POLYSACCHARIDE	Stem				--
0	RHEUM-POLYSACCHARIDE-DHP-1	Rhizome				--
0	RHEUM-POLYSACCHARIDE-DNP-2	Rhizome				--
29	SAFROLE	Rhizome		2.0		--
0	SENNIDIN-A	Root				--
0	SENNIDIN-B	Root				--
0	SENNIDIN-C	Root				--
0	SENNIDIN-D	Root				--
2	SENNOSIDE	Rhizome				--
1	SENNOSIDE-A	Root	2000.0	75600.0		--
1	SENNOSIDE-A	Rhizome	100.0	16600.0		--
1	SENNOSIDE-B	Root	8500.0	31400.0		--
1	SENNOSIDE-B	Rhizome	20.0	10000.0		--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SENNOSIDE-C	Rhizome				--
1	SENNOSIDE-C	Root				--
1	SENNOSIDE-D	Rhizome				--
1	SENNOSIDE-D	Root				--
1	SENNOSIDE-E	Rhizome				--
1	SENNOSIDE-E	Root				--
1	SENNOSIDE-F	Root				--
1	SENNOSIDE-F	Rhizome				--
0	SENNOSIDES-A+B	Rhizome				--
1	SODIUM	Rhizome	140.0	175.0	-0.42759923844032083	--
0	STILBENE-GLYCOSIDES	Rhizome				--
0	TANNINS	Root	50000.0	100000.0	-1.092580333925949	Abstract (See species file)
0	TETRACOSANE	Rhizome		1.0		--
0	TETRADECANOIC-ACID	Rhizome		10.5		--
0	TETRADECANOL	Rhizome		0.5		--
22	TETRAMETHYL-PYRAZINE	Rhizome		1.0		--
0	TETRARIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
2	TORREYOL	Rhizome		0.5		--
0	TRICOSANE	Rhizome		0.5		--
0	TRIDECANAL	Rhizome		0.5		--
0	TRIDECANE	Rhizome		0.5		--
2	TRIDECANOIC-ACID	Rhizome		0.5		--
0	UNDECANE	Rhizome		0.5		--
0	UNDECANOIC-ACID	Rhizome		6.0		--
77	ZINC	Rhizome	9.0	10.0	-0.4369878064710772	--