

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Petasites japonicus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	2-BETA-HYDROXYEREMOPHIL-7(11)-EN-8-BETA-12-OLIDE	Rhizome		0.6		--
0	3-BETA-6-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		0.7		--
0	3-BETA-8-ALPHA-DIHYDROXY-6-BETA-METHOXYEREMOPHIL-7(11)-EN-8-BETA-12-OLIDE	Rhizome		3.5		--
0	3-BETA-8-ALPHA-DIHYDROXY-6-BETA-TIGLOYL-OXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		2.8		--
0	3-BETA-8-BETA-DIHYDROXY-6-BETA-TIGLOYL-OXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		2.8		--
0	3-BETA-HYDROXY-6-ALPHA-METHOXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.8		--
0	3-BETA-HYDROXY-6-BETA-8-ALPHA-DIMETHOXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		683.0		--
0	3-BETA-HYDROXY-6-BETA-METHOXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome	0.8	3.0		--
0	3-BETA-HYDROXY-6-BETA-TIGLOYL-OXYEREMOPHIL-7(11)-EN-8-BETA-12-OLIDE	Rhizome		7.3		--
0	3-BETA-HYDROXY-EREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.9		--
0	6-ACETYLFURANOFUKINOL	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-ANGELYLFURANOFUKINOL	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-BETA-(3'-CHLORO-2'-HYDROXY-2'-METHYLBUTYROYL-OXY)-3-BETA-8-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		0.9		--
0	6-BETA-8-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		1.8		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6-BETA-ANGELOYL-OXY-3-BETA-15-EPOXY-9-BETA-15(R)-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		0.2		--
0	6-BETA-ANGELOYL-OXY-3-BETA-8-ALPHA-DIHYDROXYEREMOPHILENOLIDE	Rhizome		50.0		--
0	6-BETA-ANGELOYL-OXY-3-BETA-8-BETA-9-BETA-TRIHYDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		1.2		--
0	6-BETA-ANGELOYL-OXY-3-BETA-8-DIHYDROXYEREMOPHILENOLIDE	Rhizome		50.0		--
0	6-BETA-ANGELOYL-OXY-3-BETA-9-ALPHA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		4.0		--
0	6-BETA-ANGELOYL-OXY-3-BETA-9-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		2.0		--
0	6-BETA-ANGELOYL-OXY-8-BETA-HYDROXY-3-OXOEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		1.7		--
0	6-BETA-EPOXY-ANGELOYL-OXY-3-BETA-HYDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.2		--
0	6-HYDROXYEREMOPHILENOLIDE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	8-BETA-HYDROXY-3-OXOEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.4		--
0	9-ACETOXYFUKINANOLIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ALBOPETASIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ALPHA-SANTALENE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
1	ANGELIC-ACID	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
2	ARSENIC	Plant				Chem. & Pharm. Bull. 38: 2205.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
112	ASCORBIC-ACID	Pt	315.0	5725.0	1.657820760823633	USDA's Ag Handbook 8 and sequelae)
0	ASH	Pt	14600.0	26545.0	-1.3494322568823325	USDA's Ag Handbook 8 and sequelae)
5	BAKKENOLIDE-A	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
0	BAKKENOLIDE-B	Rhizome				--
0	BAKKENOLIDE-B	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
0	BAKKENOLIDE-C	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
0	BAKKENOLIDE-D	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
0	BARIUM	Plant	40.0	50.0	-0.03959910833711677	Chem. & Pharm. Bull. 38: 2205.
53	BETA-CAROTENE	Pt	0.03	0.5	-0.7935841132399388	USDA's Ag Handbook 8 and sequelae)
47	BETA-SITOSTEROL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BROMINE	Plant	18.0	40.0	-0.002388622096911931	Chem. & Pharm. Bull. 38: 2205.
2	BUTYRALDEHYDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
28	CALCIUM	Pt	1030.0	18725.0	0.7484589275751646	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Plant	13000.0	14000.0	0.04392125722715171	Chem. & Pharm. Bull. 38: 2205.
1	CAPROIC-ACID	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
5	CAPRYLIC-ACID	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
0	CARBOHYDRATES	Pt	19000.0	656360.0	-0.9732767393540686	--
7	CHLORINE	Plant	10000.0	11000.0	1.0564720140341104	Chem. & Pharm. Bull. 38: 2205.
24	CHROMIUM	Plant	20.0	23.0	1.2808381056051297	Chem. & Pharm. Bull. 38: 2205.
12	COPPER	Plant	15.0	16.0	0.21963694313863044	Chem. & Pharm. Bull. 38: 2205.
0	EPOXYREMOPETASINOROL	Rhizome		0.3		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EREMOFUKINONE	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	EREMOPETASIDIONE	Rhizome		1.7		--
0	EREMOPETASINOROL	Rhizome		3.6		--
0	EREMOPETASINORONE-A	Rhizome		1.06		--
0	EREMOPETASINORONE-B	Rhizome		0.3		--
0	EREMOPETASITENIN-A-1	Rhizome		16.0		--
0	EREMOPETASITENIN-A-2	Rhizome		14.0		--
0	EREMOPETASITENIN-B-1	Rhizome		5.0		--
0	EREMOPETASITENIN-B-2	Rhizome		5.0		--
0	EREMOPHILINE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EREMOSULPHOXINOLIDE-A	Rhizome		1.2		--
0	EREMOSULPHOXINOLIDE-B	Rhizome		1.5		--
0	FAT	Pt	400.0	7270.0	-1.0	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Pt	13000.0	236360.0	1.3807004629607251	USDA's Ag Handbook 8 and sequelae)
0	FUKIIC-ACID	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
0	FUKINANOLIDE	Flower				--
0	FUKINANOLIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FUKINOLIDE	Flower				--
0	FUKINOLIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FUKINONE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

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0	FUKINOTOXIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	FURANOFUKINOL	Rhizome				--
0	FURANOJAPONIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	FURINOTOXIN	Shoot				Chemical Constituents of Oriental Herbs (3 diff. books)
0	FUROEREMOPHILONE	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	INTEGERRIME	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.
19	INULIN	Root		170000.0	-0.5352651016442753	--
12	IODINE	Plant				Chem. & Pharm. Bull. 38: 2205.
6	IRON	Pt	1.0	18.0	-1.1482846693017026	USDA's Ag Handbook 8 and sequelae)
6	IRON	Plant	2000.0	2100.0	1.7347317086076486	Chem. & Pharm. Bull. 38: 2205.
5	ISOPETASIN	Rhizome				--
5	ISOPETASIN	Flower				--
5	ISOPETASIN	Plant		160.0		--
0	ISOPETASOSIDE	Flower		32.0		--
75	KAEMPFEROL	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	KILOCALORIES	Pt	140.0	2545.0		USDA's Ag Handbook 8 and sequelae)
0	LEAD	Plant				Chem. & Pharm. Bull. 38: 2205.
0	LIGULARONE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
65	MAGNESIUM	Pt	140.0	2545.0	1.0	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	MANGANESE	Plant	70.0	100.0	0.021813677839542838	Chem. & Pharm. Bull. 38: 2205.
23	MELATONIN	Shoot				Hattori, A., et. al. 1995. Identification of Melatonin in Plants and its Effects on Plasma Melatonin Levels and Binding to Melatonin Receptors in Vertebrates. Biochem. Mol. Biol. Int., 35(3): 627-634.
2	MOLYBDENUM	Plant				Chem. & Pharm. Bull. 38: 2205.
3	MUCILAGE	Root				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	NEOPETASITENINE	Plant				--
0	NEOPETASITENINE	Flower		60.0		--
0	NEOPETASITININE	Shoot				Chemical Constituents of Oriental Herbs (3 diff. books)
39	NIACIN	Pt	2.0	36.0	-1.4142135623730951	USDA's Ag Handbook 8 and sequelae)
3	NICKEL	Plant				Chem. & Pharm. Bull. 38: 2205.
24	PECTIN	Root				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	PETASALBIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PETASALBIN-METHYL-ETHER	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
1	PETASIN	Flower				--
0	PETASININE	Plant		8.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PETASINOLIDES	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	PETASINOSIDE	Plant		5.0		--
0	PETASIPHENOL	Rhizome		3.6		--
0	PETASIPHENONE	Rhizome		6.0		--
0	PETASITALONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
1	PETASITENINE	Shoot				--
1	PETASITENINE	Plant		97.0		--
1	PETASITENINE	Flower		56.0		--
0	PETASITIN	Pt				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PETASITIN	Flower		190.0		--
0	PETASITININE	Shoot				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PETASOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
4	PHOSPHORUS	Pt	120.0	2180.0	-1.0071283821276042	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Plant	400.0	1800.0	-0.8595158871407913	Chem. & Pharm. Bull. 38: 2205.
14	POTASSIUM	Pt	6550.0	11900.0	-1.3989013675761495	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Plant	35000.0	42000.0	1.408923511049804	Chem. & Pharm. Bull. 38: 2205.
0	PROTEIN	Pt	3900.0	70900.0	-1.0944382007205662	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Pt	0.2	3.6	-1.0780530559396932	USDA's Ag Handbook 8 and sequelae)
0	RUBIDIUM	Plant	18.0	26.0	0.20941936332491162	Chem. & Pharm. Bull. 38: 2205.
0	S-FUKINOLIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	S-FURANOPETASITIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	S-ISOPETASIN	Flower				--
0	S-JAPONIN	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	S-PETASIN	Flower				--
0	SECO-EREMOPETASITOLIDE-B	Rhizome		1.3		--
0	SECO-EREMOPETITOLIDE-A	Rhizome		0.9		--
3	SENECIONINE	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.
1	SENKIRKINE	Shoot		1.0		Chemical Constituents of Oriental Herbs (3 diff. books)
1	SENKIRKINE	Rhizome		26.0		Chemical Constituents of Oriental Herbs (3 diff. books)
1	SENKIRKINE	Flower	1.0	2.0		--
1	SODIUM	Pt	70.0	1270.0	-0.6795501299617708	USDA's Ag Handbook 8 and sequelae)
0	STRONTIUM	Plant	36.0	160.0	0.05749817880907902	Chem. & Pharm. Bull. 38: 2205.
14	SULFUR	Plant	6500.0	7300.0	1.4633479486367877	Chem. & Pharm. Bull. 38: 2205.
31	THIAMIN	Pt	0.2	3.6	-1.184737408199613	USDA's Ag Handbook 8 and sequelae)
0	TITANIUM	Plant	170.0	200.0	0.4093608814549928	Chem. & Pharm. Bull. 38: 2205.
0	URIDINE	Rhizome		0.8	-0.9999999999999998	--
0	WATER	Pt		945000.0	-1.0	USDA's Ag Handbook 8 and sequelae)
77	ZINC	Plant	21.0	60.0	0.0774856047459278	Chem. & Pharm. Bull. 38: 2205.