

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Petasites japonicus*

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)
77	ZINC	Plant	21.0	60.0	0.0774856047459278	Chem. & Pharm. Bull. 38: 2205.
75	KAEMPFEROL	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
65	MAGNESIUM	Pt	140.0	2545.0	1.0	USDA's Ag Handbook 8 and sequelae)
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.
39	NIACIN	Pt	2.0	36.0	-1.4142135623730951	USDA's Ag Handbook 8 and sequelae)
31	THIAMIN	Pt	0.2	3.6	-1.184737408199613	USDA's Ag Handbook 8 and sequelae)
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.
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.
24	CHROMIUM	Plant	20.0	23.0	1.2808381056051297	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.
19	INULIN	Root		170000.0	-0.5352651016442753	--
15	RIBOFLAVIN	Pt	0.2	3.6	-1.0780530559396932	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Pt	13000.0	236360.0	1.3807004629607251	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Plant	35000.0	42000.0	1.408923511049804	Chem. & Pharm. Bull. 38: 2205.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	SULFUR	Plant	6500.0	7300.0	1.4633479486367877	Chem. & Pharm. Bull. 38: 2205.
14	MANGANESE	Plant	70.0	100.0	0.021813677839542838	Chem. & Pharm. Bull. 38: 2205.
14	POTASSIUM	Pt	6550.0	11900.0	-1.3989013675761495	USDA's Ag Handbook 8 and sequelae)
12	COPPER	Plant	15.0	16.0	0.21963694313863044	Chem. & Pharm. Bull. 38: 2205.
12	IODINE	Plant				Chem. & Pharm. Bull. 38: 2205.
7	CHLORINE	Plant	10000.0	11000.0	1.0564720140341104	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		--
5	CAPRYLIC-ACID	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
5	BAKKENOLIDE-A	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
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.
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.
3	NICKEL	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.
2	MOLYBDENUM	Plant				Chem. & Pharm. Bull. 38: 2205.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	BUTYRALDEHYDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	ARSENIC	Plant				Chem. & Pharm. Bull. 38: 2205.
1	PETASITENINE	Plant		97.0		--
1	PETASITENINE	Flower		56.0		--
1	PETASITENINE	Shoot				--
1	CAPROIC-ACID	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
1	PETASIN	Flower				--
1	SODIUM	Pt	70.0	1270.0	-0.6795501299617708	USDA's Ag Handbook 8 and sequelae)
1	SENKIRKINE	Flower	1.0	2.0		--
1	SENKIRKINE	Shoot		1.0		Chemical Constituents of Oriental Herbs (3 diff. books)
1	ANGELIC-ACID	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
1	SENKIRKINE	Rhizome		26.0		Chemical Constituents of Oriental Herbs (3 diff. books)
0	FURANOJAPONIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ALPHA-SANTALENE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-BETA-ANGELOYL-OXY-3-BETA-8-BETA-9-BETA-TRIHYDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		1.2		--
0	EREMOPETASITENIN-A-2	Rhizome		14.0		--
0	SECO-EREMOPETASITOLIDE-B	Rhizome		1.3		--
0	PETASALBIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-BETA-(3'-CHLORO-2'-HYDROXY-2'-METHYL-BUTYROYL-OXY)-3-BETA-8-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		0.9		--
0	KILOCALORIES	Pt	140.0	2545.0		USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALBOPETASIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	3-BETA-HYDROXY-EREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.9		--
0	EREMOPETASITENIN-A-1	Rhizome		16.0		--
0	FURANOFUKINOL	Rhizome				--
0	S-PETASIN	Flower				--
0	6-BETA-ANGELOYL-OXY-3-BETA-8-DIHYDROXYEREMOPHILENOLIDE	Rhizome		50.0		--
0	S-JAPONIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	BARIUM	Plant	40.0	50.0	-0.03959910833711677	Chem. & Pharm. Bull. 38: 2205.
0	9-ACETOXYFUKINANOLIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	3-BETA-HYDROXY-6-BETA-METHOXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome	0.8	3.0		--
0	EREMOPETASINORONE-B	Rhizome		0.3		--
0	FUKINOTOXIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	S-ISOPETASIN	Flower				--
0	6-BETA-ANGELOYL-OXY-3-BETA-8-ALPHA-DIHYDROXYEREMOPHILENOLIDE	Rhizome		50.0		--
0	ISOPETASOSIDE	Flower		32.0		--
0	S-FURANOPETASITIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	BAKKENOLIDE-D	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-HYDROXYEREMOPHILENOLIDE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	3-BETA-HYDROXY-6-BETA-8-ALPHA-DIMETHOXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		683.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PETASOSIDE	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	EREMOPETASINORONE-A	Rhizome		1.06		--
0	FUKINONE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PETASITIN	Flower		190.0		--
0	WATER	Pt		945000.0	-1.0	USDA's Ag Handbook 8 and sequelae)
0	CARBOHYDRATES	Pt	19000.0	656360.0	-0.9732767393540686	--
0	S-FUKINOLIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BAKKENOLIDE-C	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
0	2-BETA-HYDROXYEREMOPHIL-7(11)-EN-8-BETA-12-OLIDE	Rhizome		0.6		--
0	6-ANGELYLFURANOFUKINOL	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	3-BETA-HYDROXY-6-ALPHA-METHOXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.8		--
0	PETASITININE	Shoot				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EREMOPETASINOROL	Rhizome		3.6		--
0	FUKINOLIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	NEOPETASITININE	Shoot				Chemical Constituents of Oriental Herbs (3 diff. books)
0	TITANIUM	Plant	170.0	200.0	0.4093608814549928	Chem. & Pharm. Bull. 38: 2205.
0	FUKINOLIDE	Flower				--
0	RUBIDIUM	Plant	18.0	26.0	0.20941936332491162	Chem. & Pharm. Bull. 38: 2205.
0	BAKKENOLIDE-B	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3-BETA-HYDROXY-6-BETA-TIGLOYL-OXYEREMOPHIL-7(11)-EN-8-BETA-12-OLIDE	Rhizome		7.3		--
0	6-ACETYLFURANOFUKINOL	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	3-BETA-8-BETA-DIHYDROXY-6-BETA-TIGLOYL-OXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		2.8		--
0	PETASITIN	Pt				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EREMOPETASIDIONE	Rhizome		1.7		--
0	FUKINANOLIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FUKINANOLIDE	Flower				--
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	PETASITALONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	EPOXYEREMOPETASINOROL	Rhizome		0.3		--
0	FUKIIC-ACID	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PETASIPHENONE	Rhizome		6.0		--
0	EREMOSULPHOXINOLIDE-B	Rhizome		1.5		--
0	ASH	Pt	14600.0	26545.0	-1.3494322568823325	USDA's Ag Handbook 8 and sequelae)
0	8-BETA-HYDROXY-3-OXOEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.4		--
0	3-BETA-6-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		0.7		--
0	PETASINOSIDE	Plant		5.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BAKKENOLIDE-B	Rhizome				--
0	PETASIPHENOL	Rhizome		3.6		--
0	STRONTIUM	Plant	36.0	160.0	0.05749817880907902	Chem. & Pharm. Bull. 38: 2205.
0	EREMOSULPHOXINOLIDE-A	Rhizome		1.2		--
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.
0	6-BETA-EPOXY-ANGELOYL-OXY-3-BETA-HYDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.2		--
0	URIDINE	Rhizome		0.8	-0.9999999999999998	--
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	6-BETA-ANGELOYL-OXY-8-BETA-HYDROXY-3-OXOEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		1.7		--
0	FAT	Pt	400.0	7270.0	-1.0	USDA's Ag Handbook 8 and sequelae)
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	6-BETA-ANGELOYL-OXY-3-BETA-9-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		2.0		--
0	PROTEIN	Pt	3900.0	70900.0	-1.0944382007205662	USDA's Ag Handbook 8 and sequelae)
0	EREMOPETASITENIN-B-2	Rhizome		5.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PETASININE	Plant		8.0		--
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	EREMOPHILINE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	NEOPETASITENINE	Plant				--
0	LIGULARONE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	BROMINE	Plant	18.0	40.0	-0.002388622096911931	Chem. & Pharm. Bull. 38: 2205.
0	FURINOTOXIN	Shoot				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-BETA-ANGELOYL-OXY-3-BETA-9-ALPHA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		4.0		--
0	EREMOPETASITENIN-B-1	Rhizome		5.0		--
0	SECO-EREMOPETITOLIDE-A	Rhizome		0.9		--
0	PETASALBIN-METHYL-ETHER	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-BETA-8-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		1.8		--
0	EREMOFUKINONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	NEOPETASITENINE	Flower		60.0		--
0	LEAD	Plant				Chem. & Pharm. Bull. 38: 2205.