

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in Polygonum multiflorum**

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2,3,5,4'-TETRAHYDROXYSTILBENE-2-O-GLUCOSIDE	Root	--	--		
0	2,3,5,4'-TETRAHYDROXYSTILBENE-2-O-GLUCOSIDE	Plant	--	12000		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	2-3-4'-5-TETRAHYDROXYSTILBENE	Plant	--	--		
0	2-ACETYL-EMODIN	Tuber	--	--		
0	3,3'-DI-O-GALLOYLPROCYANIDIN-B-2	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	3-O-GALLOYL-L-CATECHIN	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	3-O-GALLOYL-L-EPICATECHIN	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	3-O-GALLOYL-PROCYANIDIN-B-1	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-ACETYL-2-METHOXY-7-METHYL-JUGLONE	Tuber	--	--		
5	ALUMINUM	Root	152	152	-0.23092356882413043	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	ANTHRAQUINONES	Root	--	11000	-0.8145355295230408	
2	ARSENIC	Rhizome	0.11	0.11	-0.3682464952502336	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
112	ASCORBIC-ACID	Root	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ASH	Root	70000	70000	0.06970991327055617	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
53	BETA-CAROTENE	Root	2.4	2.4	-0.421076046376712	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
47	BETA-SITOSTEROL	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	Shoot	--	--		
47	BETA-SITOSTEROL	Rhizome	--	--		
0	BISADE	Plant	--	--		
28	CALCIUM	Rhizome	15300	15300	1.8231785881156002	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
28	CALCIUM	Root	3370	3370	-0.4416648442153509	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
28	CALCIUM	Plant	--	2225	-1.2156106648213802	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CARBOHYDRATES	Root	735000	735000	-1.2197569504915382	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
24	CHROMIUM	Root	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	CHRYSOPHANIC-ACID	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CHRYSOPHANIC-ACID-ANTHRONE	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CHRYSOPHANIC-ACID-ANTHRONE	Root	--	--		
10	CHRYSOPHANOL	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CHRYSOPHANOL-GLYCOSIDE	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CITREOROSEIN	Tuber	--	--		
2	COBALT	Root	145	145	2.6020241246296503	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
12	COPPER	Rhizome	5	5	-1.2402737325891986	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	CYANIDINS	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	D-CATECHIN	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	D-EPICATECHIN	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
5	DAUCOSTEROL	Tuber	--	--		
2	DIGITOLUTEIN	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DIGITOLUTEIN-GLUCOSIDE	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
58	EMODIN	Leaf	--	--		
58	EMODIN	Tuber	--	--		
58	EMODIN	Plant	--	--		
58	EMODIN	Shoot	--	--		
58	EMODIN	Root	--	--		
58	EMODIN	Bulb	--	--		
58	EMODIN	Rhizome	--	--		
0	EMODIN-1-6-DIMETHYL-ETHER	Tuber	--	--		
0	EMODIN-6-METHYL-ETHER	Plant	--	--		
0	EMODIN-8-O-BETA-D-GLUCOSIDE	Tuber	--	--		
0	EMODIN-8-O-BETA-D-MONOGLUCOSIDE	Shoot	--	--		
0	EMODIN-GLYCOSIDE	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	EMODIN-MONOMETHYL-ETHER	Leaf	--	--		
0	EMODIN-MONOMETHYL-ETHER	Root	--	--		
0	FAT	Root	15000	15000	-0.26278086141973483	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	FIBER	Root	175000	175000	1.9296400859584986	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FOENICULIN	Flower	--	1000		
0	FOENICULIN	Fruit	--	500	-1	
62	GALLIC-ACID	Tuber	--	--		
30	HYPEROSIDE	Fruit	--	3000		
6	IRON	Rhizome	150	150	-0.6307694628192408	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
6	IRON	Plant	--	350	-0.3261303905390022	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
6	IRON	Root	156	156	-0.2150178890958716	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	KILOCALORIES	Root	3200	3200	-0.3666891526242119	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
20	LECITHIN	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
65	MAGNESIUM	Rhizome	890	890	-0.7764379797972003	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
65	MAGNESIUM	Root	2340	2340	-0.11788559715647026	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	MANGANESE	Plant	--	18.5	-0.5623119931896589	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
14	MANGANESE	Root	21	21	-0.2951138210256497	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
14	MANGANESE	Rhizome	26	26	-0.6643257577793106	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	MONOMETHYL-ETHER	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	N-TRANS-FERULYL-3-METHYL-DOPAMINE	Tuber	--	--		
0	N-TRANS-FERULYL-3-METHYL-TYRAMINE	Tuber	--	--		
0	PHOSPHOLIPIDS	Plant	--	34900	-0.08582058420669515	
4	PHOSPHORUS	Root	1040	1040	-0.4353624968509736	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
5	PHYSCION	Root	--	--		
5	PHYSCION	Tuber	--	--		
5	PHYSCION	Shoot	--	--		
5	PHYSCION	Bulb	--	--		
5	PHYSCION	Rhizome	--	--		
5	PHYSCION	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

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0	PHYSCION-8-O-BETA-D-GLUCOSIDE	Tuber	--	--		
0	PHYSCION-GLYCOSIDE	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	PICEATANNOL-GLUCOSIDE	Root	1220	2760		
7	PICEID	Root	2320	5310		
0	POLYGOACETOPHENOSIDE	Plant	--	--		J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	POLYGOACETOPHENOSIDE	Leaf	--	1750		
0	POLYGOACETOPHENOSIDE	Flower	--	2500		
0	POLYGOACETOPHENOSIDE	Stem	--	800		
0	POLYGONIMITIN-B	Root	--	--		
0	POLYGONIMITIN-C	Root	--	--		
14	POTASSIUM	Rhizome	9120	9120	-0.4265768268646751	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
14	POTASSIUM	Root	10800	10800	-0.36456358180356746	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	PROCYANIDIN-B-2	Root	--	--		
0	PROTEIN	Root	18000	18000	-1.1275908762925957	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	QUESTIN	Tuber	--	--		

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0	QUESTINOL	Tuber	--	--		
68	RESVERATROL	Plant	--	--		
68	RESVERATROL	Root	2960	3770		
0	RESVERATROLOSIDE	Root	2770	5310		
1	RHAPONTICIN	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	RHAPONTIN	Root	--	--		
18	RHEIN	Root	--	--		
15	RIBOFLAVIN	Root	0.9	0.9	-0.6947245423214473	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
44	SCOPOLETIN	Plant	--	--		
60	SELENIUM	Root	--	74	4.901657448832962	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	SILICON	Root	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	SODIUM	Rhizome	117	117	-0.49441428607527815	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
1	SODIUM	Root	42	42	-0.49321665692176836	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
5	STARCH	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)



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0	STILBENE-GLYCOSIDE-GALLATES	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
31	THIAMIN	Root	0.1	0.1	-0.5848490255146099	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	TIN	Root	13	13	-0.35437186016542255	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
9	TRICIN	Tuber	--	--		
0	WATER	Root	800000	800000	0.2012998824504101	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
77	ZINC	Rhizome	8	8	-0.44762528958867887	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
77	ZINC	Root	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
77	ZINC	Plant	--	24.5	-0.27264823372413644	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.