

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Prunus serotina*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
176	QUERCETIN	Plant				--
102	CAFFEIC-ACID	Plant				--
89	URSOLIC-ACID	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
77	ZINC	Stem	0.5	216.0	1.4802558196473519	--
77	ZINC	Leaf	3.0	192.0	0.6515392323765133	--
75	KAEMPFEROL	Plant				--
65	MAGNESIUM	Stem	28.0	5400.0	0.26836564768874727	--
65	MAGNESIUM	Leaf	435.0	9600.0	2.1137970134338615	--
62	GALLIC-ACID	Stem Bark				--
44	SCOPOLETIN	Bark				--
35	TANNIN	Bark				--
28	CALCIUM	Stem	323.0	18360.0	-0.04174428103659576	--
28	CALCIUM	Leaf	4060.0	32640.0	0.9704452043772547	--
25	P-COUMARIC-ACID	Bark				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
24	BENZALDEHYDE	Bark				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	Stem	0.0	0.81	-0.6494072839080695	--
24	CHROMIUM	Leaf	0.0	2.88	-0.400611777866957	--
20	CHOLINE	Leaf		356.0	-0.4676627878592786	--
19	ACETYL-CHOLINE	Plant				Abstract (See species file)
19	ACETYL-CHOLINE	Leaf		1.72	-1.0000000000000002	--
16	VANADIUM	Leaf	0.14	4.8	-0.2497016564213203	--
16	VANADIUM	Stem	0.0	1.6	-0.3067434730705564	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
14	POTASSIUM	Stem	80.0	15120.0	-0.01607050826390993	--
14	POTASSIUM	Leaf	1624.0	26880.0	-0.15296589243688796	--
12	COPPER	Stem	1.3	378.0	2.514105431310182	--
12	COPPER	Leaf	0.8	29.0	0.03695077028770601	--
9	HCN	Bark	500.0	3400.0		--
9	HCN	Leaf		2500.0	0.518398745584296	--
8	AMYGDALIN	Stem Bark	31600.0	41200.0		--
7	CYANIDIN	Plant				--
6	IRON	Stem	0.19	810.0	0.07090269229244947	--
6	IRON	Leaf	20.0	1440.0	2.729443893901271	--
5	ALUMINUM	Leaf	14.0	1440.0	0.7648421049117022	--
5	ALUMINUM	Stem	0.0	540.0	-0.45297199474192074	--
4	BORON	Stem	0.0	54.0	1.607474573041989	--
4	BORON	Leaf	2.0	48.0	-0.36107864759302916	--
4	PHOSPHORUS	Stem	114.0	2592.0	0.06306530160500212	--
4	PHOSPHORUS	Leaf	261.0	4608.0	-0.06687090309315087	--
3	NICKEL	Stem	0.0	2.7	-1.000981334716609	--
3	SILVER	Stem	0.0	0.1	-0.7114587377685099	--
3	NICKEL	Leaf	0.0	6.7	-0.29146655824966	--
3	SILVER	Leaf	0.0	0.48	0.7404611024803233	--
2	MOLYBDENUM	Leaf	0.0	1.9	-0.178547893201974	--
2	PRUNASIN	Bark	5000.0	15000.0		--
2	PRUNASIN	Leaf		562.0	-0.7830581369723153	--
2	COBALT	Stem	0.0	5.4	-0.4742456292999594	--
2	MOLYBDENUM	Stem	0.0	0.19	-0.7311559758528712	--
0	LAUROCERASIN	Stem Bark				--
0	EO	Stem Bark		2000.0	1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EUDESMIC-ACID	Bark				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	LEUCOCYANIDINS	Bark				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ZIRCONIUM	Stem	0.04	1.6	-0.568448547180419	--
0	3,4,5-TRIMETHOXYBENZOIC-ACID	Bark				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	URS-12-EN-28-AL-3-BETA-OL	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EMULSIN	Bark				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	URS-12-EN-28-AL-3-BETA-OL	Leaf		30.0		--
0	ZIRCONIUM	Leaf	0.6	6.7	-0.5046459111866919	--
0	LEAD	Stem	0.2	108.0	0.8271096567270139	--
0	2-ALPHA-3-ALPHA-DIHYDROXYURS-12-EN-28-OIC-ACID	Leaf		35.0		--
0	TITANIUM	Stem	0.02	38.0	-0.5096280872343537	--
0	(R)-PRUNASIN	Seed				--
0	BETA-GLYCOSIDASE	Seed				Abstract (See species file)
0	LEAD	Leaf	0.3	67.0	0.8429866541748929	--
0	TITANIUM	Leaf	0.6	144.0	-0.07670607990693676	--
0	LANTHANUM	Stem	0.06	16.0	-0.19745300225242318	--
0	HYDROCYANIC-ACID	Leaf				--
0	BARIUM	Stem	6.0	810.0	-0.09651146951369648	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	YTTRIUM	Stem	0.001	3.78	-0.5817402603388312	--
0	LANTHANUM	Leaf	0.8	19.0	0.058562025227168885	--
0	STRONTIUM	Stem	0.5	378.0	-0.213467828894846	--
0	BARIUM	Leaf	1.0	960.0	1.5479820306733965	--
0	YTTRIUM	Leaf	0.14	14.4	-0.22191255473664281	--
0	BETA-D-GLUCOPYRANOSE-1-BENZOATE	Leaf		813.0		--
0	ASH	Stem	1900.0	54000.0	-0.5075180916997535	--
0	YTTERBIUM	Stem	0.0	0.27	-0.4686613801537053	--
0	(R)-AMYGDALIN	Seed				--
0	NEODYMIUM	Leaf	2.0	19.0	-0.14840282969793395	--
0	ASH	Leaf	29000.0	96000.0	-0.4026187643391549	--
0	YTTERBIUM	Leaf	0.05	0.67	-0.5477453397420531	--
0	RESIN	Stem Bark				--
0	STRONTIUM	Leaf	8.0	480.0	-0.24763201634945914	--