

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Prunus serotina*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(R)-AMYGDALIN	Seed				--
0	(R)-PRUNASIN	Seed				--
0	2-ALPHA-3-ALPHA-DIHYDROXYURS-12-EN-28-OIC-ACID	Leaf		35.0		--
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.
19	ACETYL-CHOLINE	Plant				Abstract (See species file)
19	ACETYL-CHOLINE	Leaf		1.72	-1.0000000000000002	--
5	ALUMINUM	Stem	0.0	540.0	-0.45297199474192074	--
5	ALUMINUM	Leaf	14.0	1440.0	0.7648421049117022	--
8	AMYGDALIN	Stem Bark	31600.0	41200.0		--
0	ASH	Stem	1900.0	54000.0	-0.5075180916997535	--
0	ASH	Leaf	29000.0	96000.0	-0.4026187643391549	--
0	BARIUM	Stem	6.0	810.0	-0.09651146951369648	--
0	BARIUM	Leaf	1.0	960.0	1.5479820306733965	--
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.
0	BETA-D-GLUCOPYRANOSE-1-BENZOATE	Leaf		813.0		--
0	BETA-GLYCOSIDASE	Seed				Abstract (See species file)
4	BORON	Stem	0.0	54.0	1.607474573041989	--
4	BORON	Leaf	2.0	48.0	-0.36107864759302916	--
102	CAFFEIC-ACID	Plant				--
28	CALCIUM	Stem	323.0	18360.0	-0.04174428103659576	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	CALCIUM	Leaf	4060.0	32640.0	0.9704452043772547	--
20	CHOLINE	Leaf		356.0	-0.4676627878592786	--
24	CHROMIUM	Stem	0.0	0.81	-0.6494072839080695	--
24	CHROMIUM	Leaf	0.0	2.88	-0.400611777866957	--
2	COBALT	Stem	0.0	5.4	-0.4742456292999594	--
12	COPPER	Leaf	0.8	29.0	0.03695077028770601	--
12	COPPER	Stem	1.3	378.0	2.514105431310182	--
7	CYANIDIN	Plant				--
0	EMULSIN	Bark				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	EO	Stem Bark		2000.0	1.0	--
0	EUDESMIC-ACID	Bark				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
62	GALLIC-ACID	Stem Bark				--
9	HCN	Leaf		2500.0	0.518398745584296	--
9	HCN	Bark	500.0	3400.0		--
0	HYDROCYANIC-ACID	Leaf				--
6	IRON	Stem	0.19	810.0	0.07090269229244947	--
6	IRON	Leaf	20.0	1440.0	2.729443893901271	--
75	KAEMPFEROL	Plant				--
0	LANTHANUM	Stem	0.06	16.0	-0.19745300225242318	--
0	LANTHANUM	Leaf	0.8	19.0	0.058562025227168885	--
0	LAUROCERASIN	Stem Bark				--
0	LEAD	Stem	0.2	108.0	0.8271096567270139	--
0	LEAD	Leaf	0.3	67.0	0.8429866541748929	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LEUCOCYANIDINS	Bark				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
65	MAGNESIUM	Stem	28.0	5400.0	0.26836564768874727	--
65	MAGNESIUM	Leaf	435.0	9600.0	2.1137970134338615	--
2	MOLYBDENUM	Stem	0.0	0.19	-0.7311559758528712	--
2	MOLYBDENUM	Leaf	0.0	1.9	-0.178547893201974	--
0	NEODYMIUM	Leaf	2.0	19.0	-0.14840282969793395	--
3	NICKEL	Stem	0.0	2.7	-1.000981334716609	--
3	NICKEL	Leaf	0.0	6.7	-0.29146655824966	--
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.
4	PHOSPHORUS	Leaf	261.0	4608.0	-0.06687090309315087	--
4	PHOSPHORUS	Stem	114.0	2592.0	0.06306530160500212	--
14	POTASSIUM	Stem	80.0	15120.0	-0.01607050826390993	--
14	POTASSIUM	Leaf	1624.0	26880.0	-0.15296589243688796	--
2	PRUNASIN	Bark	5000.0	15000.0		--
2	PRUNASIN	Leaf		562.0	-0.7830581369723153	--
176	QUERCETIN	Plant				--
0	RESIN	Stem Bark				--
44	SCOPOLETIN	Bark				--
3	SILVER	Stem	0.0	0.1	-0.7114587377685099	--
3	SILVER	Leaf	0.0	0.48	0.7404611024803233	--
0	STRONTIUM	Stem	0.5	378.0	-0.213467828894846	--
0	STRONTIUM	Leaf	8.0	480.0	-0.24763201634945914	--
35	TANNIN	Bark				--
0	TITANIUM	Stem	0.02	38.0	-0.5096280872343537	--

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0	TITANIUM	Leaf	0.6	144.0	-0.07670607990693676	--
0	URS-12-EN-28-AL-3-BETA-OL	Leaf		30.0		--
0	URS-12-EN-28-AL-3-BETA-OL	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
89	URSOLIC-ACID	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
16	VANADIUM	Stem	0.0	1.6	-0.3067434730705564	--
16	VANADIUM	Leaf	0.14	4.8	-0.2497016564213203	--
0	YTTERBIUM	Stem	0.0	0.27	-0.4686613801537053	--
0	YTTERBIUM	Leaf	0.05	0.67	-0.5477453397420531	--
0	YTTRIUM	Leaf	0.14	14.4	-0.22191255473664281	--
0	YTTRIUM	Stem	0.001	3.78	-0.5817402603388312	--
77	ZINC	Stem	0.5	216.0	1.4802558196473519	--
77	ZINC	Leaf	3.0	192.0	0.6515392323765133	--
0	ZIRCONIUM	Stem	0.04	1.6	-0.568448547180419	--
0	ZIRCONIUM	Leaf	0.6	6.7	-0.5046459111866919	--