

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Arctostaphylos uva-ursi*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Leaf	--	--		
4	(+)-CATECHOL	Leaf	--	--		
38	(-)-EPICATECHIN	Leaf	--	--		
0	2,3,6-GALLOYL-D-GLUCOSE	Leaf	--	--		
0	3-O-BETA-D-GALACTOPYRANOSIDE-3',4',5,7-TETRAHYDROXY-FLAVONE	Leaf	--	--		
0	3-O-BETA-GLUCOPYRANOSIDE-3',4',5,7-TETRAHYDROXY-FLAVONE	Leaf	--	--		
0	4-HYDROXYANISOLE	Tissue Culture	--	--		
12	ALLANTOIN	Leaf	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
12	ALLANTOIN	Plant	--	--		
10	ALPHA-AMYRIN	Leaf	--	--		
10	ALPHA-AMYRIN	Shoot	--	--		
10	ALPHA-AMYRIN	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
2	ALPHA-AMYRIN-ACETATE	Leaf	--	--		
5	ALUMINUM	Leaf	83	719	-0.008939171802457953	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	ARBUTIN	Leaf	114.3	186000	1.9896414881258047	
15	ARBUTIN	Tissue Culture	--	30		
15	ARBUTIN	Plant	75000	107000	1.0838895819763519	
0	ARBUTIN-GALLIC-ACID-ESTER	Leaf	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
112	ASCORBIC-ACID	Leaf	22	191	-0.4261977308148832	
0	ASH	Seed	6000	33000	-0.44755855178079296	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Leaf	5800	50000	-1.2130822919513653	
9	ASPERULOSIDE	Leaf	--	--		
7	AVICULARIN	Leaf	--	--		
9	BETA-AMYRIN	Leaf	--	--		
53	BETA-CAROTENE	Leaf	20	172	-0.3888883484362654	
47	BETA-SITOSTEROL	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
22	BETULINIC-ACID	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	BETULINIC-ACID	Root	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
102	CAFFEIC-ACID	Plant	--	--		
102	CAFFEIC-ACID	Leaf	--	--		
28	CALCIUM	Leaf	1264	10900	-0.5149978063425779	
0	CARBOHYDRATES	Leaf	94424	814000	1.6076237920004806	
0	CATECHOL-TANNINS	Leaf	150000	200000	0.7071067811865474	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
24	CHROMIUM	Leaf	0.1	1.2	-0.5442463649695065	
23	CITRIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	COBALT	Leaf	0.2	1.7	-0.28878110731780054	
7	CYANIDIN	Leaf	--	--		
9	DELPHINIDIN	Leaf	--	--		
51	ELLAGIC-ACID	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ELLAGOTANNINS	Leaf	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ERYTHRODIOL	Leaf	--	--		
0	FAT	Leaf	3016	26000	-0.6070120098026822	
0	FAT	Seed	20000	500000	1.235787477603246	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
61	FERULIC-ACID	Leaf	--	--		
15	FIBER	Leaf	121000	121000	-0.5012607719791021	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FIBER(CRUDE)	Leaf	--	121000	-0.16669730593333357	
0	FIBER(DIETARY)	Leaf	--	362000	-0.15032716727991322	
3	FLUORIDE	Leaf	--	3.2	-0.9999999999999999	
0	FOENICULIN	Leaf	--	--		
13	FORMIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
62	GALLIC-ACID	Leaf	--	--		
62	GALLIC-ACID	Plant	--	--		
2	GALLO-TANNIN	Leaf	150000	200000		
0	GALLOTANNINS	Leaf	--	--		
8	GENTISIC-ACID	Leaf	--	--		
0	HEXA-O-GALLOYL-BETA-D-GLUCOSE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HOMOPROTOCATECHUIC-ACID	Leaf	--	--		
32	HYDROQUINONE	Leaf	2000	5000		
0	HYDROQUINONE-GLYCOSIDES	Leaf	50000	180000		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	HYDROQUINONES	Leaf	5800	180000		
14	HYPERIN	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
30	HYPEROSIDE	Leaf	--	13000	1.7157410419087582	
6	IRON	Leaf	12	105	-0.6544307006978738	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	ISOQUERCITRIN	Leaf	--	--		
0	KILOCALORIES	Leaf	2710	2710	-0.4966015489159516	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
21	LUPEOL	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
21	LUPEOL	Leaf	--	--		
65	MAGNESIUM	Leaf	140	1210	-1.1258679955859505	
15	MALIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
14	MANGANESE	Leaf	2	16.5	-0.4324553198134763	
0	METHYL-ARBUTIN	Root	--	--		
0	METHYL-ARBUTIN	Leaf	--	57		
0	MO	Leaf	--	--		
2	MONOTROPEIN	Shoot	--	250		
2	MONOTROPEIN	Leaf	--	--		
34	MYRICETIN	Leaf	--	--		
0	MYRICETIN-3-O-BETA-D-GALACTOSIDE	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	MYRICETIN-3-O-GALACTOSIDE	Leaf	--	--		
0	MYRICETIN-GYLCOSIDE	Leaf	--	--		
39	NIACIN	Leaf	1.4	12	-1.0399962396702847	
0	O-PROTocatechuic-acid	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
64	OLEANOLIC-ACID	Tissue Culture	--	454.5		
64	OLEANOLIC-ACID	Shoot	--	--		
64	OLEANOLIC-ACID	Leaf	--	--		
64	OLEANOLIC-ACID	Plant	--	--		
9	OXALIC-ACID	Leaf	--	--		
25	P-COUMARIC-ACID	Leaf	--	--		
13	P-HYDROXY-BENZOIC-ACID	Leaf	--	--		
1	P-METHOXY-PHENOL	Root	--	--		
2	PENTA-O-GALLOYL-BETA-D-GLUCOSE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	PENTAGALLOYL-GLUCOSE	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PHOSPHORUS	Leaf	43	370	-0.8466077115965281	
0	PICEOSIDE	Leaf	--	--		
0	PO	Leaf	--	--		
14	POTASSIUM	Leaf	444	3830	-1.170802360553902	
0	PROTEIN	Leaf	12876	111000	-1.0060268066676232	
0	PROTEIN	Seed	25000	256000	0.1975154783020269	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
43	PROTocatechuic-acid	Leaf	--	--		
176	QUERCETIN	Leaf	--	--		
0	QUERCETIN-3-O-(6-O-GALLOYL-GALACTOSIDE)	Leaf	--	--		
0	QUERCETIN-3-O-ARABINOFURANOSIDE	Leaf	--	--		
0	QUERCETIN-3-O-ARABINOPYRANOSIDE	Leaf	--	--		
0	QUERCETIN-3-O-BETA-D-(6-O-GALLOYL-GALACTOSIDE)	Leaf	--	--		
0	QUERCETIN-DIGLUCOSIDE	Leaf	--	--		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	QUERCETIN-MONO-GLUCOSIDE	Leaf	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
44	QUERCITRIN	Leaf	--	--		
1	QUINIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
17	RESORCINOL	Leaf	--	--		
15	RIBOFLAVIN	Leaf	--	--	-0.1778615232261736	
34	SALICYLIC-ACID	Leaf	--	--		
60	SELENIUM	Leaf	0.2	1.6	-0.2596115444281096	
4	SILICON	Leaf	0.8	7	-0.3923715705100825	
9	SINAPIC-ACID	Leaf	--	--		
1	SODIUM	Leaf	7	60	-0.636628488925615	
6	SYRINGIC-ACID	Leaf	--	--		
41	TANNIC-ACID	Leaf	--	--		
35	TANNIN	Plant	60000	200000	1.69885594398259	
35	TANNIN	Leaf	6960	70000	-0.49479364485602007	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	TARAXASTEROL	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	TETRAGALLOYL-GLUCOSE	Leaf	--	--		
31	THIAMIN	Leaf	1	1	-1.5223183099349709	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	THIAMINE	Leaf	0.1	1	-1.0237205684567294	
4	TIN	Leaf	--	--		
0	TRIGALLOYL-GLUCOSE	Leaf	--	--		
0	UNEDOSIDE	Root	--	1296		
89	URSOLIC-ACID	Leaf	4000	7500	-0.24659009656320915	
89	URSOLIC-ACID	Plant	--	--		
89	URSOLIC-ACID	Shoot	--	--		
6	UVAOL	Shoot	--	--		
6	UVAOL	Plant	--	--		
6	UVAOL	Leaf	--	--		
24	VANILLIC-ACID	Leaf	--	--		
0	WATER	Leaf	--	884000	0.38097023554195547	
77	ZINC	Leaf	--	--		