

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in Vaccinium myrtillus

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Leaf	--	--		
30	(+)-CATECHIN	Fruit	--	--		
38	(-)-EPICATECHIN	Leaf	--	--		
38	(-)-EPICATECHIN	Fruit	--	--		
21	(-)-EPIGALLOCATECHIN	Leaf	--	--		
16	ACETIC-ACID	Fruit Juice	0.32	0.32	-0.9999999999999999	
23	ALPHA-TERPINEOL	Fruit Juice	0.015	0.015	-0.7625968906166204	
5	ALUMINUM	Fruit	25	318	-0.13100832398788578	
30	ANTHOCYANINS	Leaf	--	--		
15	ARBUTIN	Leaf	--	3000	-0.7316170494453632	
15	ARBUTIN	Fruit	--	--		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.
15	ARBUTIN	Plant	15000	15000	-1.3286388424226248	
2	ARSENIC	Fruit	0.01	0.01	-0.5241085631054083	ACTA AGRIC SCAND SUPPL 22: 1980
112	ASCORBIC-ACID	Fruit	132	1650	-0.18189696747022557	
9	ASPERULOSIDE	Leaf	--	--		
9	ASPERULOSIDE	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	ASTRAGALIN	Fruit	--	--		
7	ASTRAGALIN	Leaf	--	--		
7	AVICULARIN	Leaf	--	--		Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
24	BENZALDEHYDE	Fruit Juice	--	--		
20	BENZOIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	BENZYL-ALCOHOL	Fruit Juice	0.08	0.08		
9	BETA-AMYRIN	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
53	BETA-CAROTENE	Fruit	4	47	-0.059950475940205736	
47	BETA-SITOSTEROL	Fruit	--	--		
47	BETA-SITOSTEROL	Tissue Culture	--	--		
4	BORON	Fruit	0.6	10	-0.6025676490591996	ACTA AGRIC SCAND SUPPL 22: 1980
3	CADMIUM	Fruit	0.001	0.02	-0.5848464463574334	ACTA AGRIC SCAND SUPPL 22: 1980
102	CAFFEIC-ACID	Fruit	--	--		
102	CAFFEIC-ACID	Fruit Juice	--	--		
102	CAFFEIC-ACID	Leaf	40	40	-0.7103779880667277	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	CALCIUM	Fruit	510	6380	0.582373090515347	
1	CAPROIC-ACID	Fruit Juice	0.04	0.04	-0.9999999999999997	
31	CARYOPHYLLENE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
43	CATECHIN	Leaf	--	--		
1	CATECHINS	Leaf	--	200000	1	
77	CHLOROGENIC-ACID	Fruit	1900	1900	0.5534391651296359	
77	CHLOROGENIC-ACID	Fruit Juice	--	--		
77	CHLOROGENIC-ACID	Leaf	2800	2800	1.0924264319161126	
24	CHROMIUM	Fruit	--	0.7	-0.4093125277624259	
60	CINNAMALDEHYDE	Leaf	--	--		
60	CINNAMALDEHYDE	Fruit	--	--		
18	CINNAMIC-ACID	Leaf	--	--		
23	CITRIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
23	CITRIC-ACID	Fruit	--	--		
15	CITRONELLOL	Fruit Juice	0.001	0.001		
2	COBALT	Fruit	--	0.1	-0.5230092918235771	
12	COPPER	Fruit	0.7	6.3	-0.5073665269805587	ACTA AGRIC SCAND SUPPL 22: 1980

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	CYANIDIN	Fruit	--	--		
7	CYANIDIN	Leaf	--	--		
4	CYANIDIN-3-O-GALACTOSIDE	Leaf	275	550		
4	CYANIDIN-3-O-GALACTOSIDE	Fruit	--	--		
19	CYANIDIN-3-O-GLUCOSIDE	Fruit	--	--		
19	CYANIDIN-3-O-GLUCOSIDE	Leaf	342	684		
9	DELPHINIDIN	Fruit	--	--		
1	DELPHINIDIN-3-O-BETA-D-GLUCOSIDE	Fruit	--	--		
1	DELTA-DECALACTONE	Fruit Juice	--	--		
1	DIHYDROXYCINNAMIC-ACID	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
40	EPICATECHIN	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	EPIGALLOCATECHIN	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
76	EUGENOL	Fruit Juice	0.01	0.01		
61	FERULIC-ACID	Fruit Juice	--	--		
61	FERULIC-ACID	Fruit	--	--		
61	FERULIC-ACID	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	FRUCTOSE	Fruit	37800	38200		
62	GALLIC-ACID	Fruit Juice	--	--		
62	GALLIC-ACID	Leaf	--	--		
3	GAMMA-DECALACTONE	Fruit Juice	0.022	0.022		
8	GENTISIC-ACID	Leaf	--	--		
35	GERANIOL	Fruit Juice	--	--		
7	GLUCOSE	Fruit	27600	31600		
32	HYDROQUINONE	Fruit	--	--		
32	HYDROQUINONE	Leaf	--	--		
30	HYPEROSIDE	Fruit	--	--		
30	HYPEROSIDE	Leaf	--	--		
30	HYPEROSIDE	Fruit Juice	--	--		
8	INOSITOL	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	IRIDOIDS	Leaf	--	--		
6	IRON	Fruit	12	151	0.07148811973975773	
6	IRON	Leaf	250	250	-0.28689375971144965	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	ISOCHLOROGENIC-ACID	Leaf	2000	2000		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	ISOCHLOROGENIC-ACID	Fruit	250	250	1	
16	ISOEUGENOL	Fruit Juice	--	--		
4	ISOFERULIC-ACID	Leaf	--	--		
22	ISOQUERCITRIN	Fruit Juice	--	--		
22	ISOQUERCITRIN	Leaf	--	--		
60	LIMONENE	Fruit Juice	--	--		
53	LINALOOL	Fruit Juice	0.004	0.004	-0.9999999999999998	
15	LUTEIN	Fruit	2.6	26	1.4117785541906174	
15	LUTEIN	Tissue Culture	--	--		
1	M-HYDROXYBENZOIC-ACID	Fruit	--	--		
1	M-HYDROXYBENZOIC-ACID	Fruit Juice	--	--		
65	MAGNESIUM	Fruit	312	3900	0.8197346940018424	
15	MALIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	MALVIDIN	Fruit	--	--		
14	MANGANESE	Leaf	2500	2500	3.6962602714553836	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
14	MANGANESE	Fruit	7	91	0.1965046391200611	
1	MELILOTIC-ACID	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	MERCURY	Fruit	--	0.001	-0.7865389313824043	ACTA AGRIC SCAND SUPPL 22: 1980
2	MOLYBDENUM	Fruit	--	0.1	-0.46519775248328327	ACTA AGRIC SCAND SUPPL 22: 1980
2	MONOTROPEIN	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	MONOTROPEIN	Stem	--	--		
2	MONOTROPEIN	Fruit	--	--		
1	MYRTILLIN	Fruit	--	--		
10	NEROL	Fruit Juice	0.002	0.002		
39	NIACIN	Fruit	5	65	0.057508760745179625	
2	NONACOSANE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	O-COUMARIC-ACID	Fruit Juice	--	--		
4	O-COUMARIC-ACID	Fruit	--	--		
64	OLEANOLIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
25	OPCS	Fruit	--	--		
9	OXALIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
25	P-COUMARIC-ACID	Fruit Juice	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
25	P-COUMARIC-ACID	Fruit	--	--		
25	P-COUMARIC-ACID	Leaf	--	--		
8	P-CRESOL	Fruit Juice	0.001	0.001		
13	P-HYDROXY-BENZOIC-ACID	Fruit	--	--		
24	PECTIN	Fruit	4000	50000	-0.03661673030520101	
3	PEONIDIN	Leaf	--	--		
1	PEONIDIN-3-O-BETA-D-GLUCOSIDE	Fruit	--	--		
3	PETUNIDIN	Fruit	--	--		
1	PETUNIDIN-3-O-BETA-D-GLUCOSIDE	Fruit	--	--		
26	PHENOL	Fruit Juice	0.03	0.03		
2	PHENYL-ACETALDEHYDE	Fruit Juice	0.003	0.003		
4	PHOSPHORUS	Fruit	856	10700	2.2731902006060767	
5	PHYLLOQUINONE	Fruit	--	0.04	-0.22673532125634782	
14	POTASSIUM	Fruit	1338	16730	-0.10497458816336862	
1	PROCYANIDIN-B-1	Fruit	--	--		
1	PROCYANIDIN-B-1	Leaf	--	--		
1	PROCYANIDIN-B-2	Leaf	--	--		
1	PROCYANIDIN-B-2	Fruit	--	--		
2	PROCYANIDIN-B-3	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PROCYANIDIN-B-4	Leaf	--	--		
4	PROCYANIDIN-B-4	Fruit	--	--		
43	PROTOCATECHUIC-ACID	Leaf	--	--		
43	PROTOCATECHUIC-ACID	Fruit	--	--		
43	PROTOCATECHUIC-ACID	Fruit Juice	--	--		
176	QUERCETIN	Leaf	--	--		
2	QUERCETIN-3'-GLUCOSIDE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	QUERCETIN-3-O-RHAMNOSIDE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
44	QUERCITRIN	Fruit	--	--		
44	QUERCITRIN	Leaf	--	--		
44	QUERCITRIN	Fruit Juice	--	--		
1	QUINIC-ACID	Leaf	20000	50000	0.7547340705685329	
15	RIBOFLAVIN	Fruit	0.2	2.6	-0.5159915584690182	
87	RUTIN	Leaf	--	--		
34	SALICYLIC-ACID	Leaf	--	--		
60	SELENIUM	Fruit	0.2	2.8	0.30814666605054625	
4	SILICON	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	SINAPIC-ACID	Leaf	--	--		
1	SODIUM	Fruit	4	50	-0.17920934261084967	
7	SUCCINIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
14	SUCROSE	Fruit	--	--		
14	SULFUR	Fruit	130	1075	-0.2363356329259065	ACTA AGRIC SCAND SUPPL 22: 1980
6	SYRINGIC-ACID	Fruit Juice	--	--		
6	SYRINGIC-ACID	Leaf	--	--		
6	SYRINGIC-ACID	Fruit	--	--		
35	TANNIN	Fruit	50000	120000	0.2460348882910567	
35	TANNIN	Leaf	60000	200000	1.0922402514317946	
31	THIAMIN	Fruit	7	8	0.3414272755878574	
4	TIN	Fruit	4	50	-0.1811041243657825	
4	TRANS-2-HEXENAL	Fruit	--	--		
7	TRANS-CINNAMALDEHYDE	Fruit Juice	--	--		
89	URSOLIC-ACID	Fruit	2500	2500	-0.2673024778	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
89	URSOLIC-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
24	VANILLIC-ACID	Leaf	--	--		
24	VANILLIC-ACID	Fruit	--	--		
24	VANILLIC-ACID	Fruit Juice	--	--		
28	VANILLIN	Fruit Juice	0.015	0.015		
5	ZEAXANTHIN	Tissue Culture	--	--		
77	ZINC	Fruit	1	8.7	-0.6499015135402889	