

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vaccinium myrtillus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
35	TANNIN	Leaf	60000.0	200000.0	1.0922402514317946	--
35	TANNIN	Fruit	50000.0	120000.0	0.2460348882910567	--
1	QUINIC-ACID	Leaf	20000.0	50000.0	0.7547340705685329	--
24	PECTIN	Fruit	4000.0	50000.0	-0.03661673030520101	--
14	POTASSIUM	Fruit	1338.0	16730.0	-0.10497458816336862	--
4	PHOSPHORUS	Fruit	856.0	10700.0	2.2731902006060767	--
28	CALCIUM	Fruit	510.0	6380.0	0.582373090515347	--
19	CYANIDIN-3-O-GLUCOSIDE	Leaf	342.0	684.0		--
65	MAGNESIUM	Fruit	312.0	3900.0	0.8197346940018424	--
4	CYANIDIN-3-O-GALACTOSIDE	Leaf	275.0	550.0		--
112	ASCORBIC-ACID	Fruit	132.0	1650.0	-0.18189696747022557	--
14	SULFUR	Fruit	130.0	1075.0	-0.2363356329259065	ACTA AGRIC SCAND SUPPL 22: 1980
5	ALUMINUM	Fruit	25.0	318.0	-0.13100832398788578	--
6	IRON	Fruit	12.0	151.0	0.07148811973975773	--
31	THIAMIN	Fruit	7.0	8.0	0.3414272755878574	--
14	MANGANESE	Fruit	7.0	91.0	0.1965046391200611	--
39	NIACIN	Fruit	5.0	65.0	0.057508760745179625	--
53	BETA-CAROTENE	Fruit	4.0	47.0	-0.059950475940205736	--
4	TIN	Fruit	4.0	50.0	-0.1811041243657825	--
1	SODIUM	Fruit	4.0	50.0	-0.17920934261084967	--
15	LUTEIN	Fruit	2.6	26.0	1.4117785541906174	--
77	ZINC	Fruit	1.0	8.7	-0.6499015135402889	--
12	COPPER	Fruit	0.7	6.3	-0.5073665269805587	ACTA AGRIC SCAND SUPPL 22: 1980
4	BORON	Fruit	0.6	10.0	-0.6025676490591996	ACTA AGRIC SCAND SUPPL 22: 1980
60	SELENIUM	Fruit	0.2	2.8	0.3081466605054625	--
15	RIBOFLAVIN	Fruit	0.2	2.6	-0.5159915584690182	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CADMIUM	Fruit	0.001	0.02	-0.5848464463574334	ACTA AGRIC SCAND SUPPL 22: 1980
15	ARBUTIN	Leaf	0.0	3000.0	-0.7316170494453632	--
62	GALLIC-ACID	Fruit Juice				--
8	FRUCTOSE	Fruit				--
1	M-HYDROXYBENZOIC-ACID	Fruit Juice				--
2	MONOTROPEIN	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	Leaf				--
1	IRIDOIDS	Leaf				--
89	URSOLIC-ACID	Fruit		2500.0	-0.2673024778	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	SILICON	Fruit				--
22	ISOQUERCITRIN	Leaf				--
14	SUCROSE	Fruit				--
3	PETUNIDIN	Fruit				--
1	PROCYANIDIN-B-2	Leaf				--
47	BETA-SITOSTEROL	Fruit				--
102	CAFFEIC-ACID	Fruit				--
4	ISOFERULIC-ACID	Leaf				--
61	FERULIC-ACID	Fruit Juice				--
23	CITRIC-ACID	Fruit				--
2	MONOTROPEIN	Fruit				--
15	CITRONELLOL	Fruit Juice		0.001		--
6	IRON	Leaf		250.0	-0.28689375971144965	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	SINAPIC-ACID	Leaf				--
3	PEONIDIN	Leaf				--
7	CYANIDIN	Fruit				--
1	PROCYANIDIN-B-1	Fruit				--
21	(-)-EPIGALLOCATECHIN	Leaf				--
9	BENZYL-ALCOHOL	Fruit Juice		0.08		--
61	FERULIC-ACID	Leaf				--
24	BENZALDEHYDE	Fruit Juice				--
15	ARBUTIN	Plant		15000.0	-1.3286388424226248	--
2	MOLYBDENUM	Fruit		0.1	-0.46519775248328327	ACTA AGRIC SCAND SUPPL 22: 1980
9	BETA-AMYRIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	TRANS-CINNAMALDEHYDE	Fruit Juice				--
34	SALICYLIC-ACID	Leaf				--
26	PHENOL	Fruit Juice		0.03		--
38	(-)-EPICATECHIN	Leaf				--
9	ASPERULOSIDE	Fruit				--
16	ISOEUGENOL	Fruit Juice				--
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)
8	INOSITOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	MERCURY	Fruit		0.001	-0.7865389313824043	ACTA AGRIC SCAND SUPPL 22: 1980

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
20	BENZOIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
60	CINNAMALDEHYDE	Fruit				--
30	HYPEROSIDE	Leaf				--
87	RUTIN	Leaf				--
13	P-HYDROXY-BENZOIC-ACID	Fruit				--
2	COBALT	Fruit		0.1	-0.5230092918235771	--
10	NEROL	Fruit Juice		0.002		--
30	(+)-CATECHIN	Leaf				--
30	ANTHOCYANINS	Leaf				--
4	TRANS-2-HEXENAL	Fruit				--
76	EUGENOL	Fruit Juice		0.01		--
6	EPIGALLOCATECHIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
14	MANGANESE	Leaf		2500.0	3.6962602714553836	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	ASTRAGALIN	Leaf				--
60	CINNAMALDEHYDE	Leaf				--
44	QUERCITRIN	Leaf				--
30	HYPEROSIDE	Fruit				--
22	ISOQUERCITRIN	Fruit Juice				--
9	OXALIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	CITRIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	MELILOTIC-ACID	Leaf				--
2	PROCYANIDIN-B-3	Fruit				--
16	ACETIC-ACID	Fruit Juice		0.32	-0.9999999999999999	--
18	CINNAMIC-ACID	Leaf				--
1	DELPHINIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
38	(-)-EPICATECHIN	Fruit				--
40	EPICATECHIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	ASTRAGALIN	Fruit				--
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.
32	HYDROQUINONE	Leaf				--
44	QUERCITRIN	Fruit				--
4	ISOCHLOROGENIC-ACID	Leaf		2000.0		--
64	OLEANOLIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	CHROMIUM	Fruit		0.7	-0.4093125277624259	--
30	HYPEROSIDE	Fruit Juice				--
1	PROCYANIDIN-B-1	Leaf				--
2	PHENYL-ACETALDEHYDE	Fruit Juice		0.003		--
28	VANILLIN	Fruit Juice		0.015		--
3	GAMMA-DECALACTONE	Fruit Juice		0.022		--
53	LINALOOL	Fruit Juice		0.004	-0.9999999999999998	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
43	CATECHIN	Leaf				--
6	MALVIDIN	Fruit				--
9	ASPERULOSIDE	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.
62	GALLIC-ACID	Leaf				--
44	QUERCITRIN	Fruit Juice				--
5	ZEAXANTHIN	Tissue Culture				--
77	CHLOROGENIC-ACID	Fruit Juice				--
4	O-COUMARIC-ACID	Fruit				--
77	CHLOROGENIC-ACID	Leaf		2800.0	1.0924264319161126	--
32	HYDROQUINONE	Fruit				--
1	PETUNIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
1	CATECHINS	Leaf		200000.0	1.0	--
24	VANILLIC-ACID	Leaf				--
1	DELTA-DECALACTONE	Fruit Juice				--
60	LIMONENE	Fruit Juice				--
31	CARYOPHYLLENE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	SYRINGIC-ACID	Fruit				--
15	MALIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
176	QUERCETIN	Leaf				--
61	FERULIC-ACID	Fruit				--
43	PROTOCATECHUIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	O-COUMARIC-ACID	Fruit Juice				--
77	CHLOROGENIC-ACID	Fruit		1900.0	0.5534391651296359	--
7	GLUCOSE	Fruit				--
1	PEONIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
2	MONOTROPEIN	Stem				--
2	NONACOSANE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
23	ALPHA-TERPINEOL	Fruit Juice		0.015	-0.7625968906166204	--
4	CYANIDIN-3-O-GALACTOSIDE	Fruit				--
5	PHYLLOQUINONE	Fruit		0.04	-0.22673532125634782	--
2	ARSENIC	Fruit		0.01	-0.5241085631054083	ACTA AGRIC SCAND SUPPL 22: 1980
43	PROTocatechuic-ACID	Fruit				--
1	DIHYDROXYCINNAMIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	PROCYANIDIN-B-4	Fruit				--
15	LUTEIN	Tissue Culture				--
30	(+)-CATECHIN	Fruit				--
102	CAFFEIC-ACID	Leaf		40.0	-0.7103779880667277	--
35	GERANIOL	Fruit Juice				--
25	P-COUMARIC-ACID	Fruit Juice				--
24	VANILLIC-ACID	Fruit Juice				--
6	SYRINGIC-ACID	Leaf				--
7	CYANIDIN	Leaf				--
25	P-COUMARIC-ACID	Fruit				--
24	VANILLIC-ACID	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	SUCCINIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	M-HYDROXYBENZOIC-ACID	Fruit				--
9	DELPHINIDIN	Fruit				--
4	PROCYANIDIN-B-4	Leaf				--
19	CYANIDIN-3-O-GLUCOSIDE	Fruit				--
1	CAPROIC-ACID	Fruit Juice		0.04	-0.9999999999999997	--
8	GENTISIC-ACID	Leaf				--
4	ISOCHLOROGENIC-ACID	Fruit		250.0	1.0	--
43	PROTocatechuic-ACID	Fruit Juice				--
1	MYRTILLIN	Fruit				--
6	SYRINGIC-ACID	Fruit Juice				--
8	P-CRESOL	Fruit Juice		0.001		--
25	OPCS	Fruit				--
89	URSOLIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	ARBUTIN	Fruit		0.0		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.
1	PROCYANIDIN-B-2	Fruit				--
47	BETA-SITOSTEROL	Tissue Culture				--
102	CAFFEIC-ACID	Fruit Juice				--