

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vaccinium myrtillus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
4	PHOSPHORUS	Fruit	856.0	10700.0	2.2731902006060767	--
15	LUTEIN	Fruit	2.6	26.0	1.4117785541906174	--
77	CHLOROGENIC-ACID	Leaf		2800.0	1.0924264319161126	--
35	TANNIN	Leaf	60000.0	200000.0	1.0922402514317946	--
1	CATECHINS	Leaf		200000.0	1.0	--
4	ISOCHLOROGENIC-ACID	Fruit		250.0	1.0	--
65	MAGNESIUM	Fruit	312.0	3900.0	0.8197346940018424	--
1	QUINIC-ACID	Leaf	20000.0	50000.0	0.7547340705685329	--
28	CALCIUM	Fruit	510.0	6380.0	0.582373090515347	--
77	CHLOROGENIC-ACID	Fruit		1900.0	0.5534391651296359	--
31	THIAMIN	Fruit	7.0	8.0	0.3414272755878574	--
60	SELENIUM	Fruit	0.2	2.8	0.30814666605054625	--
35	TANNIN	Fruit	50000.0	120000.0	0.2460348882910567	--
14	MANGANESE	Fruit	7.0	91.0	0.1965046391200611	--
6	IRON	Fruit	12.0	151.0	0.07148811973975773	--
39	NIACIN	Fruit	5.0	65.0	0.057508760745179625	--
24	PECTIN	Fruit	4000.0	50000.0	-0.03661673030520101	--
53	BETA-CAROTENE	Fruit	4.0	47.0	-0.059950475940205736	--
14	POTASSIUM	Fruit	1338.0	16730.0	-0.10497458816336862	--
5	ALUMINUM	Fruit	25.0	318.0	-0.13100832398788578	--
1	SODIUM	Fruit	4.0	50.0	-0.17920934261084967	--
4	TIN	Fruit	4.0	50.0	-0.1811041243657825	--
112	ASCORBIC-ACID	Fruit	132.0	1650.0	-0.18189696747022557	--
5	PHYLLOQUINONE	Fruit		0.04	-0.22673532125634782	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	SULFUR	Fruit	130.0	1075.0	-0.2363356329259065	ACTA AGRIC SCAND SUPPL 22: 1980
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.
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.
24	CHROMIUM	Fruit		0.7	-0.4093125277624259	--
2	MOLYBDENUM	Fruit		0.1	-0.46519775248328327	ACTA AGRIC SCAND SUPPL 22: 1980
12	COPPER	Fruit	0.7	6.3	-0.5073665269805587	ACTA AGRIC SCAND SUPPL 22: 1980
15	RIBOFLAVIN	Fruit	0.2	2.6	-0.5159915584690182	--
2	COBALT	Fruit		0.1	-0.5230092918235771	--
2	ARSENIC	Fruit		0.01	-0.5241085631054083	ACTA AGRIC SCAND SUPPL 22: 1980
3	CADMIUM	Fruit	0.001	0.02	-0.5848464463574334	ACTA AGRIC SCAND SUPPL 22: 1980
4	BORON	Fruit	0.6	10.0	-0.6025676490591996	ACTA AGRIC SCAND SUPPL 22: 1980
77	ZINC	Fruit	1.0	8.7	-0.6499015135402889	--
102	CAFFEIC-ACID	Leaf		40.0	-0.7103779880667277	--
15	ARBUTIN	Leaf	0.0	3000.0	-0.7316170494453632	--
23	ALPHA-TERPINEOL	Fruit Juice		0.015	-0.7625968906166204	--
1	MERCURY	Fruit		0.001	-0.7865389313824043	ACTA AGRIC SCAND SUPPL 22: 1980
1	CAPROIC-ACID	Fruit Juice		0.04	-0.9999999999999997	--
53	LINALOOL	Fruit Juice		0.004	-0.9999999999999998	--
16	ACETIC-ACID	Fruit Juice		0.32	-0.9999999999999999	--
15	ARBUTIN	Plant		15000.0	-1.3286388424226248	--
25	OPCS	Fruit				--
176	QUERCETIN	Leaf				--
87	RUTIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
61	FERULIC-ACID	Fruit				--
60	CINNAMALDEHYDE	Fruit				--
2	NONACOSANE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
10	NEROL	Fruit Juice		0.002		--
30	ANTHOCYANINS	Leaf				--
47	BETA-SITOSTEROL	Tissue Culture				--
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.
8	FRUCTOSE	Fruit				--
1	IRIDOIDS	Leaf				--
43	PROTOCATECHUIC-ACID	Fruit				--
22	ISOQUERCITRIN	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.
60	CINNAMALDEHYDE	Leaf				--
1	MELILOTIC-ACID	Leaf				--
47	BETA-SITOSTEROL	Fruit				--
18	CINNAMIC-ACID	Leaf				--
1	M-HYDROXYBENZOIC-ACID	Fruit				--
1	DELPHINIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
40	EPICATECHIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
61	FERULIC-ACID	Fruit Juice				--
7	SUCCINIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
44	QUERCITRIN	Fruit				--
9	DELPHINIDIN	Fruit				--
4	ISOCHLOROGENIC-ACID	Leaf		2000.0		--
1	MYRTILLIN	Fruit				--
30	HYPEROSIDE	Fruit Juice				--
2	PHENYL-ACETALDEHYDE	Fruit Juice		0.003		--
21	(-)-EPIGALLOCATECHIN	Leaf				--
3	GAMMA-DECALACTONE	Fruit Juice		0.022		--
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.
43	CATECHIN	Leaf				--
24	BENZALDEHYDE	Fruit Juice				--
28	VANILLIN	Fruit Juice		0.015		--
44	QUERCITRIN	Fruit Juice				--
19	CYANIDIN-3-O-GLUCOSIDE	Leaf	342.0	684.0		--
77	CHLOROGENIC-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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
32	HYDROQUINONE	Fruit				--
38	(-)-EPICATECHIN	Leaf				--
22	ISOQUERCITRIN	Leaf				--
1	DELTA-DECALACTONE	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.
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)
4	SILICON	Fruit				--
24	VANILLIC-ACID	Leaf				--
3	PETUNIDIN	Fruit				--
43	PROTocatechuic-ACID	Leaf				--
4	CYANIDIN-3-O-GALACTOSIDE	Leaf	275.0	550.0		--
2	MONOTROPEIN	Fruit				--
7	GLUCOSE	Fruit				--
2	MONOTROPEIN	Stem				--
30	(+)-CATECHIN	Leaf				--
4	CYANIDIN-3-O-GALACTOSIDE	Fruit				--
3	PEONIDIN	Leaf				--
4	PROCYANIDIN-B-4	Fruit				--
7	CYANIDIN	Fruit				--
30	(+)-CATECHIN	Fruit				--
35	GERANIOL	Fruit Juice				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	BETA-AMYRIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	VANILLIC-ACID	Fruit Juice				--
2	PROCYANIDIN-B-3	Fruit				--
7	CYANIDIN	Leaf				--
24	VANILLIC-ACID	Fruit				--
38	(-)-EPICATECHIN	Fruit				--
6	SYRINGIC-ACID	Leaf				--
4	PROCYANIDIN-B-4	Leaf				--
8	GENTISIC-ACID	Leaf				--
20	BENZOIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
43	PROTocatechuic-ACID	Fruit Juice				--
1	PROCYANIDIN-B-1	Leaf				--
8	P-CRESOL	Fruit Juice		0.001		--
89	URSOLIC-ACID	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 Juice				--
30	HYPEROSIDE	Leaf				--
13	P-HYDROXY-BENZOIC-ACID	Fruit				--
1	PROCYANIDIN-B-2	Fruit				--
102	CAFFEIC-ACID	Fruit Juice				--
5	ZEAXANTHIN	Tissue Culture				--
62	GALLIC-ACID	Fruit Juice				--
7	ASTRAGALIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	M-HYDROXYBENZOIC-ACID	Fruit Juice				--
1	PETUNIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
60	LIMONENE	Fruit Juice				--
44	QUERCITRIN	Leaf				--
14	SUCROSE	Fruit				--
30	HYPEROSIDE	Fruit				--
25	P-COUMARIC-ACID	Leaf				--
9	OXALIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	PROCYANIDIN-B-2	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.
102	CAFFEIC-ACID	Fruit				--
4	O-COUMARIC-ACID	Fruit Juice				--
4	ISOFERULIC-ACID	Leaf				--
7	ASTRAGALIN	Fruit				--
23	CITRIC-ACID	Fruit				--
1	PEONIDIN-3-O-BETA-D-GLUCOSIDE	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.
9	SINAPIC-ACID	Leaf				--
32	HYDROQUINONE	Leaf				--
15	CITRONELLOL	Fruit Juice		0.001		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
64	OLEANOLIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	PROCYANIDIN-B-1	Fruit				--
9	BENZYL-ALCOHOL	Fruit Juice		0.08		--
15	LUTEIN	Tissue Culture				--
6	MALVIDIN	Fruit				--
61	FERULIC-ACID	Leaf				--
9	ASPERULOSIDE	Leaf				--
25	P-COUMARIC-ACID	Fruit Juice				--
25	P-COUMARIC-ACID	Fruit				--
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.
34	SALICYLIC-ACID	Leaf				--
62	GALLIC-ACID	Leaf				--
7	TRANS-CINNAMALDEHYDE	Fruit Juice				--
4	O-COUMARIC-ACID	Fruit				--
26	PHENOL	Fruit Juice		0.03		--
9	ASPERULOSIDE	Fruit				--
19	CYANIDIN-3-O-GLUCOSIDE	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.
16	ISOEUGENOL	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.
6	SYRINGIC-ACID	Fruit				--