

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vaccinium myrtillus*

Activities 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	-0.9999999999999999	--
23	ALPHA-TERPINEOL	Fruit Juice		0.015	-0.7625968906166204	--
5	ALUMINUM	Fruit	25.0	318.0	-0.13100832398788578	--
30	ANTHOCYANINS	Leaf				--
15	ARBUTIN	Plant		15000.0	-1.3286388424226248	--
15	ARBUTIN	Leaf	0.0	3000.0	-0.7316170494453632	--
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.
2	ARSENIC	Fruit		0.01	-0.5241085631054083	ACTA AGRIC SCAND SUPPL 22: 1980
112	ASCORBIC-ACID	Fruit	132.0	1650.0	-0.18189696747022557	--
9	ASPERULOSIDE	Fruit				--
9	ASPERULOSIDE	Leaf				--
7	ASTRAGALIN	Leaf				--
7	ASTRAGALIN	Fruit				--
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				--

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.
9	BENZYL-ALCOHOL	Fruit Juice		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	4.0	47.0	-0.059950475940205736	--
47	BETA-SITOSTEROL	Tissue Culture				--
47	BETA-SITOSTEROL	Fruit				--
4	BORON	Fruit	0.6	10.0	-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 Juice				--
102	CAFFEIC-ACID	Fruit				--
102	CAFFEIC-ACID	Leaf		40.0	-0.7103779880667277	--
28	CALCIUM	Fruit	510.0	6380.0	0.582373090515347	--
1	CAPROIC-ACID	Fruit Juice		0.04	-0.9999999999999997	--
31	CARYOPHYLENE	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		200000.0	1.0	--
77	CHLOROGENIC-ACID	Leaf		2800.0	1.0924264319161126	--
77	CHLOROGENIC-ACID	Fruit Juice				--
77	CHLOROGENIC-ACID	Fruit		1900.0	0.5534391651296359	--
24	CHROMIUM	Fruit		0.7	-0.4093125277624259	--
60	CINNAMALDEHYDE	Fruit				--
60	CINNAMALDEHYDE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	CINNAMIC-ACID	Leaf				--
23	CITRIC-ACID	Fruit				--
23	CITRIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	CITRONELLOL	Fruit Juice		0.001		--
2	COBALT	Fruit		0.1	-0.5230092918235771	--
12	COPPER	Fruit	0.7	6.3	-0.5073665269805587	ACTA AGRIC SCAND SUPPL 22: 1980
7	CYANIDIN	Fruit				--
7	CYANIDIN	Leaf				--
4	CYANIDIN-3-O-GALACTOSIDE	Leaf	275.0	550.0		--
4	CYANIDIN-3-O-GALACTOSIDE	Fruit				--
19	CYANIDIN-3-O-GLUCOSIDE	Fruit				--
19	CYANIDIN-3-O-GLUCOSIDE	Leaf	342.0	684.0		--
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		--
61	FERULIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
61	FERULIC-ACID	Fruit				--
61	FERULIC-ACID	Fruit Juice				--
8	FRUCTOSE	Fruit				--
62	GALLIC-ACID	Leaf				--
62	GALLIC-ACID	Fruit Juice				--
3	GAMMA-DECALACTONE	Fruit Juice		0.022		--
8	GENTISIC-ACID	Leaf				--
35	GERANIOL	Fruit Juice				--
7	GLUCOSE	Fruit				--
32	HYDROQUINONE	Fruit				--
32	HYDROQUINONE	Leaf				--
30	HYPEROSIDE	Leaf				--
30	HYPEROSIDE	Fruit Juice				--
30	HYPEROSIDE	Fruit				--
8	INOSITOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	IRIDIDS	Leaf				--
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.
6	IRON	Fruit	12.0	151.0	0.07148811973975773	--
4	ISOCHLOROGENIC-ACID	Leaf		2000.0		--
4	ISOCHLOROGENIC-ACID	Fruit		250.0	1.0	--
16	ISOEUGENOL	Fruit Juice				--
4	ISOFERULIC-ACID	Leaf				--
22	ISOQUERCITRIN	Leaf				--
22	ISOQUERCITRIN	Fruit Juice				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Fruit Juice				--
53	LINALOOL	Fruit Juice		0.004	-0.999999999999998	--
15	LUTEIN	Tissue Culture				--
15	LUTEIN	Fruit	2.6	26.0	1.4117785541906174	--
1	M-HYDROXYBENZOIC-ACID	Fruit Juice				--
1	M-HYDROXYBENZOIC-ACID	Fruit				--
65	MAGNESIUM	Fruit	312.0	3900.0	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		2500.0	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	7.0	91.0	0.1965046391200611	--
1	MELILOTIC-ACID	Leaf				--
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	Fruit				--
2	MONOTROPEIN	Stem				--
1	MYRTILLIN	Fruit				--
10	NEROL	Fruit Juice		0.002		--
39	NIACIN	Fruit	5.0	65.0	0.057508760745179625	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
25	P-COUMARIC-ACID	Leaf				--
25	P-COUMARIC-ACID	Fruit				--
8	P-CRESOL	Fruit Juice		0.001		--
13	P-HYDROXY-BENZOIC-ACID	Fruit				--
24	PECTIN	Fruit	4000.0	50000.0	-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		--
2	PHENYL-ACETALDEHYDE	Fruit Juice		0.003		--
4	PHOSPHORUS	Fruit	856.0	10700.0	2.2731902006060767	--
5	PHYLLOQUINONE	Fruit		0.04	-0.22673532125634782	--
14	POTASSIUM	Fruit	1338.0	16730.0	-0.10497458816336862	--
1	PROCYANIDIN-B-1	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	PROCYANIDIN-B-1	Fruit				--
1	PROCYANIDIN-B-2	Fruit				--
1	PROCYANIDIN-B-2	Leaf				--
2	PROCYANIDIN-B-3	Fruit				--
4	PROCYANIDIN-B-4	Fruit				--
4	PROCYANIDIN-B-4	Leaf				--
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	Leaf				--
44	QUERCITRIN	Fruit				--
44	QUERCITRIN	Fruit Juice				--
1	QUINIC-ACID	Leaf	20000.0	50000.0	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				--
9	SINAPIC-ACID	Leaf				--
1	SODIUM	Fruit	4.0	50.0	-0.17920934261084967	--

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.
14	SUCROSE	Fruit				--
14	SULFUR	Fruit	130.0	1075.0	-0.2363356329259065	ACTA AGRIC SCAND SUPPL 22: 1980
6	SYRINGIC-ACID	Fruit				--
6	SYRINGIC-ACID	Leaf				--
6	SYRINGIC-ACID	Fruit Juice				--
35	TANNIN	Leaf	60000.0	200000.0	1.0922402514317946	--
35	TANNIN	Fruit	50000.0	120000.0	0.2460348882910567	--
31	THIAMIN	Fruit	7.0	8.0	0.3414272755878574	--
4	TIN	Fruit	4.0	50.0	-0.1811041243657825	--
4	TRANS-2-HEXENAL	Fruit				--
7	TRANS-CINNAMALDEHYDE	Fruit Juice				--
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.
89	URSOLIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	VANILLIC-ACID	Leaf				--
24	VANILLIC-ACID	Fruit Juice				--
24	VANILLIC-ACID	Fruit				--
28	VANILLIN	Fruit Juice		0.015		--
5	ZEAXANTHIN	Tissue Culture				--
77	ZINC	Fruit	1.0	8.7	-0.6499015135402889	--