

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vaccinium myrtillus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Fruit	1.0	8.7	-0.6499015135402889	--
5	ZEAXANTHIN	Tissue Culture				--
28	VANILLIN	Fruit Juice		0.015		--
24	VANILLIC-ACID	Leaf				--
24	VANILLIC-ACID	Fruit Juice				--
24	VANILLIC-ACID	Fruit				--
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.
7	TRANS-CINNAMALDEHYDE	Fruit Juice				--
4	TRANS-2-HEXENAL	Fruit				--
4	TIN	Fruit	4.0	50.0	-0.1811041243657825	--
31	THIAMIN	Fruit	7.0	8.0	0.3414272755878574	--
35	TANNIN	Leaf	60000.0	200000.0	1.0922402514317946	--
35	TANNIN	Fruit	50000.0	120000.0	0.2460348882910567	--
6	SYRINGIC-ACID	Fruit				--
6	SYRINGIC-ACID	Leaf				--
6	SYRINGIC-ACID	Fruit Juice				--
14	SULFUR	Fruit	130.0	1075.0	-0.2363356329259065	ACTA AGRIC SCAND SUPPL 22: 1980
14	SUCROSE	Fruit				--
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	SODIUM	Fruit	4.0	50.0	-0.17920934261084967	--
9	SINAPIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	SILICON	Fruit				--
60	SELENIUM	Fruit	0.2	2.8	0.30814666605054625	--
34	SALICYLIC-ACID	Leaf				--
87	RUTIN	Leaf				--
15	RIBOFLAVIN	Fruit	0.2	2.6	-0.5159915584690182	--
1	QUINIC-ACID	Leaf	20000.0	50000.0	0.7547340705685329	--
44	QUERCITRIN	Leaf				--
44	QUERCITRIN	Fruit				--
44	QUERCITRIN	Fruit Juice				--
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.
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.
176	QUERCETIN	Leaf				--
43	PROTocatechuic-ACID	Leaf				--
43	PROTocatechuic-ACID	Fruit				--
43	PROTocatechuic-ACID	Fruit Juice				--
4	PROCYANIDIN-B-4	Fruit				--
4	PROCYANIDIN-B-4	Leaf				--
2	PROCYANIDIN-B-3	Fruit				--
1	PROCYANIDIN-B-2	Fruit				--
1	PROCYANIDIN-B-2	Leaf				--
1	PROCYANIDIN-B-1	Leaf				--
1	PROCYANIDIN-B-1	Fruit				--
14	POTASSIUM	Fruit	1338.0	16730.0	-0.10497458816336862	--
5	PHYLLOQUINONE	Fruit		0.04	-0.22673532125634782	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PHOSPHORUS	Fruit	856.0	10700.0	2.2731902006060767	--
2	PHENYL-ACETALDEHYDE	Fruit Juice		0.003		--
26	PHENOL	Fruit Juice		0.03		--
1	PETUNIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
3	PETUNIDIN	Fruit				--
1	PEONIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
3	PEONIDIN	Leaf				--
24	PECTIN	Fruit	4000.0	50000.0	-0.03661673030520101	--
13	P-HYDROXY-BENZOIC-ACID	Fruit				--
8	P-CRESOL	Fruit Juice		0.001		--
25	P-COUMARIC-ACID	Fruit Juice				--
25	P-COUMARIC-ACID	Leaf				--
25	P-COUMARIC-ACID	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	OPCS	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.
4	O-COUMARIC-ACID	Fruit Juice				--
4	O-COUMARIC-ACID	Fruit				--
2	NONACOSANE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
39	NIACIN	Fruit	5.0	65.0	0.057508760745179625	--
10	NEROL	Fruit Juice		0.002		--
1	MYRTILLIN	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
2	MOLYBDENUM	Fruit		0.1	-0.46519775248328327	ACTA AGRIC SCAND SUPPL 22: 1980
1	MERCURY	Fruit		0.001	-0.7865389313824043	ACTA AGRIC SCAND SUPPL 22: 1980
1	MELILOTIC-ACID	Leaf				--
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	--
6	MALVIDIN	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.
65	MAGNESIUM	Fruit	312.0	3900.0	0.8197346940018424	--
1	M-HYDROXYBENZOIC-ACID	Fruit Juice				--
1	M-HYDROXYBENZOIC-ACID	Fruit				--
15	LUTEIN	Tissue Culture				--
15	LUTEIN	Fruit	2.6	26.0	1.4117785541906174	--
53	LINALOOL	Fruit Juice		0.004	-0.9999999999999998	--
60	LIMONENE	Fruit Juice				--
22	ISOQUERCITRIN	Leaf				--
22	ISOQUERCITRIN	Fruit Juice				--
4	ISOFERULIC-ACID	Leaf				--
16	ISOEUGENOL	Fruit Juice				--
4	ISOCHLOROGENIC-ACID	Leaf		2000.0		--

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

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.
1	DIHYDROXYCINNAMIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	DELTA-DECALACTONE	Fruit Juice				--
1	DELPHINIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
9	DELPHINIDIN	Fruit				--
19	CYANIDIN-3-O-GLUCOSIDE	Fruit				--
19	CYANIDIN-3-O-GLUCOSIDE	Leaf	342.0	684.0		--
4	CYANIDIN-3-O-GALACTOSIDE	Leaf	275.0	550.0		--
4	CYANIDIN-3-O-GALACTOSIDE	Fruit				--
7	CYANIDIN	Fruit				--
7	CYANIDIN	Leaf				--
12	COPPER	Fruit	0.7	6.3	-0.5073665269805587	ACTA AGRIC SCAND SUPPL 22: 1980
2	COBALT	Fruit		0.1	-0.5230092918235771	--
15	CITRONELLOL	Fruit Juice		0.001		--
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.
18	CINNAMIC-ACID	Leaf				--
60	CINNAMALDEHYDE	Fruit				--
60	CINNAMALDEHYDE	Leaf				--
24	CHROMIUM	Fruit		0.7	-0.4093125277624259	--
77	CHLOROGENIC-ACID	Fruit Juice				--
77	CHLOROGENIC-ACID	Leaf		2800.0	1.0924264319161126	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	CHLOROGENIC-ACID	Fruit		1900.0	0.5534391651296359	--
1	CATECHINS	Leaf		200000.0	1.0	--
43	CATECHIN	Leaf				--
31	CARYOPHYLLENE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CAPROIC-ACID	Fruit Juice		0.04	-0.9999999999999997	--
28	CALCIUM	Fruit	510.0	6380.0	0.582373090515347	--
102	CAFFEIC-ACID	Fruit Juice				--
102	CAFFEIC-ACID	Fruit				--
102	CAFFEIC-ACID	Leaf		40.0	-0.7103779880667277	--
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
47	BETA-SITOSTEROL	Tissue Culture				--
47	BETA-SITOSTEROL	Fruit				--
53	BETA-CAROTENE	Fruit	4.0	47.0	-0.059950475940205736	--
9	BETA-AMYRIN	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		--
20	BENZOIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	BENZALDEHYDE	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)
7	ASTRAGALIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	ASTRAGALIN	Fruit				--
9	ASPERULOSIDE	Fruit				--
9	ASPERULOSIDE	Leaf				--
112	ASCORBIC-ACID	Fruit	132.0	1650.0	-0.18189696747022557	--
2	ARSENIC	Fruit		0.01	-0.5241085631054083	ACTA AGRIC SCAND SUPPL 22: 1980
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.
30	ANTHOCYANINS	Leaf				--
5	ALUMINUM	Fruit	25.0	318.0	-0.13100832398788578	--
23	ALPHA-TERPINEOL	Fruit Juice		0.015	-0.7625968906166204	--
16	ACETIC-ACID	Fruit Juice		0.32	-0.9999999999999999	--
21	(-)-EPIGALLOCATECHIN	Leaf				--
38	(-)-EPICATECHIN	Leaf				--
38	(-)-EPICATECHIN	Fruit				--
30	(+)-CATECHIN	Leaf				--
30	(+)-CATECHIN	Fruit				--