

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in *Vaccinium vitis-idaea***

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Fruit	3500	3500	-1	
38	(-)-EPICATECHIN	Leaf	--	--		
0	1-AMINOCYCLOPROPAN-1-CARBONIC-ACID	Fruit	--	--		
0	2-O-CAFFELOYL-ARBUTIN	Leaf	--	--		
0	4-HYDROXY-PHENYL-BETA-GENTIOBIOSIDE	Leaf	--	--		
0	5-HYDROXY-PIPECOLIC-ACID	Fruit	--	--		
5	ALUMINUM	Fruit	5	53	-0.20810256223267318	
15	ARBUTIN	Leaf	40000	90000	0.5620960257933886	
2	ARSENIC	Fruit	--	--		
112	ASCORBIC-ACID	Fruit	280	1865	-0.16852891403340933	
0	ASH	Fruit	2500	18000	-1.0012115032835212	
7	AVICULARIN	Leaf	--	--		
20	BENZOIC-ACID	Fruit	1360	1360	1.7271430017580267	
53	BETA-CAROTENE	Plant	--	--		
0	BETA-HYDROXY-KETO-BUTYRIC-ACID	Fruit	--	--		
4	BORON	Fruit	1.4	11	-0.582433861690495	
0	BROMINE	Fruit	--	--		
3	CADMIUM	Fruit	0.001	0.07	-0.43790010305154564	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
102	CAFFEIC-ACID	Leaf	--	--		
28	CALCIUM	Fruit	180	1730	-0.490662645088971	
0	CATECHIN-TANNINS	Leaf	80000	80000	-1	
24	CHROMIUM	Fruit	0.01	0.13	-0.4893736578871058	
23	CITRIC-ACID	Fruit	--	--		
2	COBALT	Fruit	--	--		
12	COPPER	Fruit	0.7	5.2	-0.5929789156368218	
0	CYANIDIN-3-GALACTOSIDE	Fruit	--	--		
40	EPICATECHIN	Leaf	--	--		
0	FLUORINE	Fruit	0.1	0.7	-0.645639695445324	
8	FRUCTOSE	Fruit	50000	50000	-0.12730980056563979	
62	GALLIC-ACID	Leaf	--	--		
0	GALLOCATECHIN	Leaf	--	--		
7	GLUCOSE	Fruit	40000	40000	-0.4705687734075308	
32	HYDROQUINONE	Leaf	--	--		
30	HYPEROSIDE	Fruit	--	--		
30	HYPEROSIDE	Leaf	--	--		
6	IRON	Fruit	4	31	-0.40451953788469414	
6	IRON	Leaf	250	250	-0.28689375971144965	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	ISOQUERCITRIN	Leaf	--	--		
75	KAEMPFEROL	Fruit	--	--		
0	KETOGLUTARIC-ACID	Fruit	--	--		
0	LEAD	Fruit	0.05	0.4	-0.46664922079159554	
16	LYCOPENE	Fruit	--	--		
65	MAGNESIUM	Fruit	80	600	-0.7083570352657517	
15	MALIC-ACID	Fruit	--	--		
14	MANGANESE	Leaf	2500	2500	3.6962602714553836	
14	MANGANESE	Fruit	28	250	1.2449298976145524	
1	MERCURY	Fruit	--	0.07	2.43646255181101	
2	MOLYBDENUM	Fruit	--	--		
1	N-NONACOSANE	Fruit	--	--		
24	PECTIN	Fruit	4000	4000	-0.5827573701977885	
4	PHOSPHORUS	Fruit	150	1130	-0.633599574309718	
14	POTASSIUM	Fruit	720	6200	-1.0366018607126761	
0	PYROSIDE	Leaf	--	--		
176	QUERCETIN	Leaf	--	--		
0	QUINIC-ACIC	Fruit	--	--		
0	RUBIDIUM	Fruit	2.7	22	0.22373836408620662	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
34	SALICYLIC-ACID	Fruit	--	--		
1	SALIDROSIDE	Leaf	--	--		
60	SELENIUM	Fruit	--	0.013	-0.38296354387544557	
4	SILICON	Fruit	5	133	-0.17632957850820472	
14	SUCROSE	Fruit	5300	5300	-0.7092372641276423	
0	SUGAR	Fruit	80000	80000	-0.732736691130559	
14	SULFUR	Fruit	130	1075	-0.2363356329259065	
35	TANNIN	Leaf	60000	200000	1.0922402514317946	
89	URSOLIC-ACID	Fruit	7500	7500	1.3363199543081485	
0	VACCINIIN	Fruit	410	410	1	
0	WATER	Fruit	800000	932000	0.701887807341757	
5	ZEAXANTHIN	Fruit	--	--		
77	ZINC	Fruit	1.7	14	-0.49044636326548674	