

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vaccinium corymbosum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
30	(+)-CATECHIN	Plant				--
67	1,8-CINEOLE	Fruit				--
0	2-METHOXY-5-VINYL-PHENOL	Fruit				--
0	2-METHYL-BUTANOIC-ACID	Fruit Juice		0.05	-1.0	--
0	2-PHENYLETHANOL	Fruit	0.02	0.3		--
0	3-PHENYL-PROPAN-1-OL	Fruit				--
1	4-HYDROXYCINNAMIC-ACID	Plant				--
0	4-VINYL-PHENOL	Fruit Juice		0.07		--
16	ACETIC-ACID	Fruit Juice		0.7	0.9999999999999999	--
0	ACETIC-ACID-HEXYL-ESTER	Fruit Juice				--
3	ALANINE	Fruit	280.0	1820.0	-0.7418405731363005	--
7	ALPHA-CAROTENE	Fruit				--
3	ALPHA-CEDRENE	Plant				--
28	ALPHA-PINENE	Fruit				--
23	ALPHA-TERPINEOL	Fruit	0.01	0.03	-0.4084856837120716	--
32	ALPHA-TOCOPHEROL	Fruit	18.0	116.0	0.6638919110782403	--
14	ARGININE	Fruit	340.0	2210.0	-0.5600851423126632	--
112	ASCORBIC-ACID	Fruit	125.0	878.0	-0.2298976058573053	--
0	ASH	Fruit	2070.0	13845.0	-1.1088066718389031	--
3	ASPARTIC-ACID	Fruit	520.0	3379.0	-0.8906723270007303	--
24	BENZALDEHYDE	Fruit Juice				--
9	BENZYL-ALCOHOL	Fruit Juice	0.01	0.08		--
53	BETA-CAROTENE	Fruit	0.6	3.9	-0.14326199939781478	--
2	BETA-CRYPTOXANTHIN	Fruit				--
13	BETA-IONONE	Plant				--
47	BETA-SITOSTEROL	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	BORON	Fruit	0.1	13.0	-0.5421662869530862	--
0	BUTAN-1-OL	Fruit Juice		0.016	0.9999999999999999	--
0	BUTAN-2-OL	Fruit Juice		0.013	1.0	--
0	BUTANOIC-ACID	Fruit Juice		0.01	-0.9999999999999999	--
0	BUTYRIC-ACID-HEX-TRANS-2-ENYL-ESTER	Fruit Juice				--
102	CAFFEIC-ACID	Plant				--
0	CAFFEIC-ACID-4-O-BETA-D-GLUCOSIDE	Fruit				--
28	CALCIUM	Fruit	58.0	400.0	-0.7975739415091307	--
1	CAPROIC-ACID	Fruit Juice		0.05	1.0000000000000001	--
0	CARBOHYDRATES	Fruit	141300.0	918130.0	0.7232422837998722	--
31	CARYOPHYLLENE	Fruit				--
77	CHLOROGENIC-ACID	Fruit		3000.0	1.514574437694523	--
0	CHRYSANTHEMIN	Leaf				--
15	CITRONELLOL	Fruit	0.01	0.03	-0.573263955341512	--
12	COPPER	Fruit	0.5	4.0	-0.6863742487163819	--
7	CYANIDIN	Fruit				--
0	CYANIDIN-3-O-ALPHA-L-ARABINOSIDE	Fruit				--
0	CYANIDIN-3-O-ALPHA-L-GALACTOSIDE	Fruit				--
5	CYANIN	Fruit				--
2	CYSTINE	Fruit	70.0	455.0	-0.6011503786038777	--
9	DELPHINIDIN	Fruit				--
0	DELPHINIDIN-3-O-ALPHA-L-ARABINOSIDE	Fruit				--
0	DELPHINIDIN-3-O-ALPHA-L-GALACTOSIDE	Fruit				--
1	DELPHINIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
0	DELPHININ	Fruit				--
51	ELLAGIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	ESCULETIN	Plant				--
76	EUGENOL	Fruit		0.02	-0.7071064865585788	--
17	FARNESOL	Fruit		0.04	-0.728783349747631	--
0	FARNESOL-ACETATE	Fruit	0.01	0.07		--
0	FAT	Fruit	3740.0	25090.0	-0.4496166879641399	--
61	FERULIC-ACID	Plant				--
0	FERULIC-ACID-O-BETA-D-GLUCOSIDE	Fruit				--
15	FIBER	Fruit	12770.0	86000.0	-0.5253890966179366	--
15	FOLACIN	Fruit	0.05	0.5	-0.6321635035861631	--
8	FRUCTOSE	Fruit				--
62	GALLIC-ACID	Plant				--
0	GALLIC-ACID-4-O-BETA-D-GLUCOSIDE	Fruit				--
3	GAMMA-DECALACTONE	Plant				--
35	GERANIOL	Fruit	0.01	0.03	-0.6117485494795332	--
7	GLUCOSE	Fruit				--
8	GLUTAMIC-ACID	Fruit	830.0	5393.0	-0.6104836030782232	--
12	GLYCINE	Fruit	280.0	1819.0	-0.6907315054332721	--
0	HEX-CIS-3-EN-1-AL	Fruit Juice	0.01	0.06		--
0	HEX-TRANS-2-1-AL	Fruit Juice	0.02	0.5		--
0	HEX-TRANS-2-1-OL	Fruit Juice		0.08		--
0	HEX-TRANS-2-EN-1-OL	Fruit Juice	0.02	0.5	1.0	--
0	HEXAN-1-OL	Fruit Juice	0.04	0.4		--
0	HEXAN-1-AL	Fruit Juice				--
7	HISTIDINE	Fruit	100.0	715.0	-0.6994440757723944	--
0	HYDROXY-CITRONELLOL	Fruit	0.02	0.07		--
0	HYDROXY-ISOCARVOMENTHOL	Fruit				--
30	HYPEROSIDE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
6	IRON	Fruit	2.0	11.0	-0.4838541474887695	--
16	ISOEUGENOL	Fruit				--
3	ISOLEUCINE	Fruit	210.0	1365.0	-0.6826256186359426	--
22	ISOQUERCITRIN	Leaf				--
1	ISOVALERIC-ACID-ETHYL-ESTER	Plant				--
0	KILOCALORIES	Fruit	560.0	3638.0	-0.03425259264826275	--
2	LEUCINE	Fruit	400.0	2600.0	-0.5317150065026318	--
60	LIMONENE	Fruit				--
0	LINALOL	Fruit	0.01	0.05	-0.6396414731700739	--
4	LYSINE	Fruit	120.0	780.0	-0.8636063212741109	--
65	MAGNESIUM	Fruit	48.0	332.0	-0.8324566060062714	--
0	MALVADIN-3-O-ALPHA-L-GALACTOSIDE	Fruit				--
6	MALVIDIN	Fruit				--
0	MALVIDIN-3-O-ALPHA-L-ARABINOSIDE	Fruit				--
1	MALVIDIN-3-O-ALPHA-L-GALACTOSIDE	Fruit				--
0	MALVIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
2	MALVIN	Fruit				--
14	MANGANESE	Fruit	3.0	20.0	-0.271660098949806	--
15	METHIONINE	Fruit	110.0	715.0	-0.2998780173286338	--
22	MYRCENE	Fruit				--
34	MYRICETIN	Plant				--
0	MYRICETIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
31	MYRISTICIN	Fruit				--
0	NEOMYRTILLIN	Leaf				--
10	NEROL	Fruit	0.02	0.08	-0.62010617027388	--
39	NIACIN	Fruit	3.4	24.0	-0.49059008618146793	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	NONAN-1-OL	Fruit Juice				--
0	OCTAN-1-OL	Fruit Juice				--
64	OLEANOLIC-ACID	Plant				--
4	ORIENTIN	Plant				--
25	P-COUMARIC-ACID	Plant				--
0	P-COUMARIC-ACID-O-BETA-D-GLUCOSIDE	Fruit				--
8	P-CRESOL	Plant				--
0	P-DIMETHYL-ALPHA-STYRENE	Fruit				--
13	P-HYDROXY-BENZOIC-ACID	Plant				--
11	PANTOTHENIC-ACID	Fruit	0.9	6.0	-0.7720986391775634	--
0	PENT-1-EN-3-OL	Fruit Juice				--
0	PENTAN-1-OIC-ACID	Fruit Juice				--
0	PENTAN-1-OL	Fruit Juice		0.02	-0.9999999999999999	--
0	PENTYL-FURAN	Fruit				--
3	PEONIDIN	Fruit				--
0	PEONIDIN-3-O-ALPHA-L-ARABINOSIDE	Fruit				--
0	PEONIDIN-3-O-ALPHA-L-GALACTOSIDE	Fruit				--
1	PEONIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
3	PETUNIDIN	Fruit				--
0	PETUNIDIN-3-O-ALPHA-L-ARABINOSIDE	Fruit				--
0	PETUNIDIN-3-O-ALPHA-L-GALACTOSIDE	Fruit				--
1	PETUNIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
26	PHENOL	Fruit	0.01	0.06	-0.9999999999999999	--
7	PHENYLALANINE	Fruit	240.0	1560.0	-0.6123882587603068	--
8	PHLOROGLUCINOL	Plant				--
4	PHOSPHORUS	Fruit	96.0	675.0	-0.7718011780282851	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
5	PHYLLOQUINONE	Fruit		30.0	4.471663819829345	Shapiro, D. K., Kudinov, M. A., Narizhnaya, T. I., Kononovich, T. V., Starkova, N. Y. 1984. Biochemical Evaluation of Blueberries Grown in the BeloRussian Polesie. Rastitel'nye Resursy, 203:396-400.
2	PIPERONAL	Plant				--
14	POTASSIUM	Fruit	879.0	5859.0	-1.0667713668797525	--
0	PROANTHOCYANIN	Fruit				--
0	PROLINE	Fruit	250.0	1624.0	-0.6543076627207944	--
0	PROTEIN	Fruit	6520.0	44720.0	-0.8683844970984902	--
0	PROTocatechuic-acid-4-O-beta-D-glucoside	Fruit				--
28	PULEGONE	Plant				--
176	QUERCETIN	Plant				--
2	QUERCETIN-3-O-beta-D-glucoside	Plant				--
44	QUERCITRIN	Plant				--
68	RESVERATROL	Fruit				ARS News Notes, April 7, 1999. Anticancer Agent Confirmed in Berries; ARS Natural Products Utilization Research Unit, Oxford, Miss.
15	RIBOFLAVIN	Fruit	0.5	3.4	-0.34465824343779955	--
57	ROSMARINIC-ACID	Plant				--
87	RUTIN	Plant				--
44	SCOPOLETIN	Plant				--
1	SERINE	Fruit	200.0	1300.0	-0.8272002402328085	--
1	SODIUM	Fruit	56.0	414.0	-0.1446916314111752	--
31	THIAMIN	Fruit	0.5	3.1	-0.2857986533698326	--
4	THREONINE	Fruit	180.0	1170.0	-0.7680735360913586	--
71	THYMOL	Fruit				--
7	TRANS-CINNAMALDEHYDE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	TRANS-CINNAMYL-ALCOHOL	Fruit		0.01		--
29	TRYPTOPHAN	Fruit	30.0	195.0	-0.9198848288139797	--
8	TYROSINE	Fruit	80.0	520.0	-0.7867823163663892	--
89	URSOLIC-ACID	Plant				--
3	VALINE	Fruit	280.0	1820.0	-0.5432605987582758	--
24	VANILLIC-ACID	Plant				--
28	VANILLIN	Fruit	0.01	0.05	-1.0	--
0	VIT-B-6	Fruit	0.3	2.5	-0.9591889922167529	--
0	WATER	Fruit	843000.0	849000.0	0.3409960382384781	--
77	ZINC	Fruit	1.0	7.0	-0.7010475051378668	--