

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Rubus idaeus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	P-HYDROXY-BENZOIC-ACID	Plant				--
62	GALLIC-ACID	Leaf				--
22	ISOQUERCITRIN	Fruit				--
5	CYANIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	FRUCTOSE	Fruit				--
11	MALTOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
176	QUERCETIN	Juice				--
38	(-)-EPICATECHIN	Pericarp				--
6	FURFURAL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
43	PROTocatechuic-ACID	Plant				--
34	SALICYLIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CYANIDIN-3-RUTINOSIDE	Plant				--
38	(-)-EPICATECHIN	Juice				--
15	MALIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
38	(-)-EPICATECHIN	Stem				--
77	ZINC	Leaf				--
13	FORMIC-ACID	Fruit				--
4	PROCYANIDIN-B-4	Stem				--
15	RIBOFLAVIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Juice				--
43	PROTocatechuic-acid	Juice				--
20	BENZOIC-ACID	Plant				--
3	XYLOSE	Fruit				--
61	FERULIC-ACID	Plant				--
1	VALERIANIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
75	KAEMPFEROL	Juice				--
4	PROCYANIDIN-B-4	Pericarp				--
6	PROPIONIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	CINNAMYL-ALCOHOL	Plant				--
10	XYLITOL	Fruit		0.4		--
24	BENZALDEHYDE	Plant				--
24	VANILLIC-ACID	Plant				--
2	BETA-CRYPTOXANTHIN	Fruit				--
61	FERULIC-ACID	Fruit				--
4	PROCYANIDIN-B-4	Plant				--
4	PROCYANIDIN-B-4	Leaf				--
14	SUCROSE	Fruit				--
25	P-COUMARIC-ACID	Bark				--
17	FARNESOL	Plant				--
62	GALLIC-ACID	Juice				Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	N-NONACOSANE	Seed Oil				--
5	CAPRYLIC-ACID	Fruit				--
9	PEDUNCULAGIN	Leaf				--
11	SORBITOL	Fruit				--
25	P-COUMARIC-ACID	Leaf				--
8	LACTIC-ACID	Leaf				--
6	ETHYL-ACETATE	Plant				--
18	MANNITOL	Fruit				--
25	P-COUMARIC-ACID	Plant				--
47	BETA-SITOSTEROL	Seed Oil				--
30	(+)-CATECHIN	Stem				--
2	ISOBUTYRIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	SUCCINIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	ETHANOL	Plant				--
51	ELLAGIC-ACID	Juice	5.0	50.0		--
27	LINOLEIC-ACID	Seed Oil				--
8	P-CRESOL	Plant				--
102	CAFFEIC-ACID	Fruit				Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
5	SANGUIIN-H-6	Leaf				--
30	(+)-CATECHIN	Pericarp				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ISOAMYL-ALCOHOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
25	P-COUMARIC-ACID	Juice				--
7	SUCCINIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
51	ELLAGIC-ACID	Leaf				--
19	CYANIDIN-3-O-GLUCOSIDE	Fruit				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
7	GLUCOSE	Fruit				--
6	BUTYRIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	SANGUIIN-H-2	Leaf				--
30	(+)-CATECHIN	Leaf				--
2	DIACETYL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	GENTISIC-ACID	Plant				--
87	RUTIN	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
38	(-)-EPICATECHIN	Plant				--
16	ACETIC-ACID	Plant				--
34	SALICYLIC-ACID	Plant				--
102	CAFFEIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	GERANIOL	Fruit				--
23	CITRIC-ACID	Fruit				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
62	GALLIC-ACID	Plant				--
13	BETA-IONONE	Plant				--
38	(-)-EPICATECHIN	Leaf				--
31	THIAMIN	Leaf		3.4	-1.0221493221185618	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
15	FIBER	Leaf		82000.0	-0.9835404944355358	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
35	TANNIN	Fruit		6200.0	-0.8518650257063927	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
14	POTASSIUM	Leaf	2265.0	13400.0	-0.7482125557868814	--
4	PHOSPHORUS	Fruit	110.0	955.0	-0.6867540372783977	Revised USDA data received 1993.
6	IRON	Leaf	17.0	101.0	-0.664569650794051	--
53	BETA-CAROTENE	Leaf	19.0	114.0	-0.6414752460100303	--
1	SODIUM	Leaf	13.0	77.0	-0.6336091719663351	--
93	TOCOPHEROL	Fruit	3.0	12.0	-0.6276472611238401	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Fruit	1490.0	11635.0	-0.555747708167046	Revised USDA data received 1993.
4	BORON	Fruit	1.0	13.0	-0.5421662869530862	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron).
24	CHROMIUM	Leaf	0.2	1.3	-0.5356966871657832	--
12	COPPER	Fruit	0.7	6.0	-0.5307153602504487	Revised USDA data received 1993.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	CALCIUM	Fruit	220.0	1645.0	-0.5102772768150714	Revised USDA data received 1993.
15	LUTEIN	Fruit	0.76	4.0	-0.48918352740142235	--
4	PHOSPHORUS	Leaf	395.0	2340.0	-0.4841533669170441	--
7	ALPHA-CAROTENE	Fruit	0.13	0.6	-0.46232287758038665	--
24	PECTIN	Fruit		14500.0	-0.4580948328310023	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
18	OLEIC-ACID	Fruit	490.0	3665.0	-0.4524977786497885	Revised USDA data received 1993.
28	CALCIUM	Leaf	2045.0	12100.0	-0.4330046318778217	--
4	SILICON	Leaf	0.2	1.3	-0.40932526208989356	--
31	THIAMIN	Fruit	0.3	2.2	-0.4010034158314492	Revised USDA data received 1993.
65	MAGNESIUM	Leaf	539.0	3190.0	-0.361322498820846	--
5	ALUMINUM	Leaf	66.0	392.0	-0.3598774207421672	--
13	PALMITIC-ACID	Fruit	130.0	970.0	-0.35043476151081787	Revised USDA data received 1993.
6	IRON	Fruit	5.0	45.0	-0.34898531116184145	Revised USDA data received 1993.
65	MAGNESIUM	Fruit	175.0	1400.0	-0.33791055544330456	Revised USDA data received 1993.
2	COBALT	Leaf	0.6	3.4	-0.27867675528926233	--
32	ALPHA-TOCOPHEROL	Fruit	9.0	56.0	-0.2596481602858355	--
14	MANGANESE	Leaf	25.0	146.0	-0.21716694893797103	--
8	STEARIC-ACID	Fruit	130.0	970.0	-0.2148929675183572	Revised USDA data received 1993.
13	MUFA	Fruit	530.0	3965.0	-0.19628214752627327	Revised USDA data received 1993.
60	SELENIUM	Leaf	0.4	2.5	-0.19046045138655818	--
1	SODIUM	Fruit	0.0	1.0	-0.18385595758003662	Revised USDA data received 1993.
112	ASCORBIC-ACID	Fruit	70.0	1870.0	-0.16821802906976244	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
112	ASCORBIC-ACID	Seed		300.0	-0.15835200323963525	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
53	BETA-CAROTENE	Fruit	0.06	7.0	-0.13726975525121177	--
27	LINOLEIC-ACID	Fruit	2080.0	15555.0	-0.13594241677819272	Revised USDA data received 1993.
112	ASCORBIC-ACID	Leaf	620.0	3670.0	-0.10339086235718767	--
11	PANTOTHENIC-ACID	Fruit	2.4	18.0	-0.006662132557618176	Revised USDA data received 1993.
39	NIACIN	Fruit	9.0	67.0	0.08424528986355267	Revised USDA data received 1993.
35	TANNIN	Leaf	16900.0	120000.0	0.11560400756237017	--
14	MANGANESE	Fruit	10.0	80.0	0.12397207406698312	Revised USDA data received 1993.
77	ZINC	Fruit	4.0	37.0	0.2015288171723333	Revised USDA data received 1993.
15	RIBOFLAVIN	Fruit	0.9	6.7	0.36209168106597706	Revised USDA data received 1993.
24	PECTIN	Leaf	8450.0	50000.0	0.4345814175326895	--
4	TIN	Leaf	4.0	22.0	0.7648770558118653	--
4	PUFA	Fruit	3130.0	23410.0	0.8363439902360195	Revised USDA data received 1993.
1	LEVULOSE	Fruit		35000.0	1.0	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	DEXTROSE	Fruit		35000.0	1.0	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	FIBER	Fruit	30000.0	352280.0	1.9873569833760867	Revised USDA data received 1993.
39	NIACIN	Leaf	65.0	382.0	3.4605317922989003	--