

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Rubus idaeus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
176	QUERCETIN	Juice				--
112	ASCORBIC-ACID	Fruit	70.0	1870.0	-0.16821802906976244	--
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.
112	ASCORBIC-ACID	Leaf	620.0	3670.0	-0.10339086235718767	--
102	CAFFEIC-ACID	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.
93	TOCOPHEROL	Fruit	3.0	12.0	-0.6276472611238401	USDA's Ag Handbook 8 and sequelae)
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.
77	ZINC	Leaf				--
77	ZINC	Fruit	4.0	37.0	0.2015288171723333	Revised USDA data received 1993.
75	KAEMPFEROL	Juice				--
65	MAGNESIUM	Fruit	175.0	1400.0	-0.33791055544330456	Revised USDA data received 1993.
65	MAGNESIUM	Leaf	539.0	3190.0	-0.361322498820846	--
62	GALLIC-ACID	Leaf				--
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.
62	GALLIC-ACID	Plant				--
61	FERULIC-ACID	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
61	FERULIC-ACID	Plant				--
60	SELENIUM	Leaf	0.4	2.5	-0.19046045138655818	--
53	BETA-CAROTENE	Leaf	19.0	114.0	-0.6414752460100303	--
53	BETA-CAROTENE	Fruit	0.06	7.0	-0.13726975525121177	--
51	ELLAGIC-ACID	Leaf				--
51	ELLAGIC-ACID	Juice	5.0	50.0		--
47	BETA-SITOSTEROL	Seed Oil				--
43	PROTocatechuic-ACID	Plant				--
43	PROTocatechuic-ACID	Juice				--
39	NIACIN	Fruit	9.0	67.0	0.08424528986355267	Revised USDA data received 1993.
39	NIACIN	Leaf	65.0	382.0	3.4605317922989003	--
38	(-)-EPICATECHIN	Plant				--
38	(-)-EPICATECHIN	Leaf				--
38	(-)-EPICATECHIN	Pericarp				--
38	(-)-EPICATECHIN	Stem				--
38	(-)-EPICATECHIN	Juice				--
35	TANNIN	Leaf	16900.0	120000.0	0.11560400756237017	--
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.
35	GERANIOL	Fruit				--
34	SALICYLIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
34	SALICYLIC-ACID	Plant				--
32	ALPHA-TOCOPHEROL	Fruit	9.0	56.0	-0.2596481602858355	--
31	THIAMIN	Fruit	0.3	2.2	-0.4010034158314492	Revised USDA data received 1993.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
31	THIAMIN	Leaf		3.4	-1.0221493221185618	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
30	(+)-CATECHIN	Pericarp				--
30	(+)-CATECHIN	Leaf				--
30	(+)-CATECHIN	Juice				--
30	(+)-CATECHIN	Stem				--
28	CALCIUM	Fruit	220.0	1645.0	-0.5102772768150714	Revised USDA data received 1993.
28	CALCIUM	Leaf	2045.0	12100.0	-0.4330046318778217	--
27	LINOLEIC-ACID	Fruit	2080.0	15555.0	-0.13594241677819272	Revised USDA data received 1993.
27	LINOLEIC-ACID	Seed Oil				--
25	P-COUMARIC-ACID	Plant				--
25	P-COUMARIC-ACID	Bark				--
25	P-COUMARIC-ACID	Leaf				--
25	P-COUMARIC-ACID	Juice				--
24	CHROMIUM	Leaf	0.2	1.3	-0.5356966871657832	--
24	VANILLIC-ACID	Plant				--
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.
24	BENZALDEHYDE	Plant				--
24	PECTIN	Leaf	8450.0	50000.0	0.4345814175326895	--
24	ETHANOL	Plant				--
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.
22	ISOQUERCITRIN	Fruit				--
20	BENZOIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
18	OLEIC-ACID	Fruit	490.0	3665.0	-0.4524977786497885	Revised USDA data received 1993.
18	MANNITOL	Fruit				--
17	FARNESOL	Plant				--
16	ACETIC-ACID	Plant				--
15	FIBER	Leaf		82000.0	-0.9835404944355358	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
15	FIBER	Fruit	30000.0	352280.0	1.9873569833760867	Revised USDA data received 1993.
15	RIBOFLAVIN	Fruit	0.9	6.7	0.36209168106597706	Revised USDA data received 1993.
15	MALIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	RIBOFLAVIN	Leaf				--
15	LUTEIN	Fruit	0.76	4.0	-0.48918352740142235	--
14	POTASSIUM	Leaf	2265.0	13400.0	-0.7482125557868814	--
14	MANGANESE	Leaf	25.0	146.0	-0.21716694893797103	--
14	SUCROSE	Fruit				--
14	MANGANESE	Fruit	10.0	80.0	0.12397207406698312	Revised USDA data received 1993.
14	POTASSIUM	Fruit	1490.0	11635.0	-0.555747708167046	Revised USDA data received 1993.
13	FORMIC-ACID	Fruit				--
13	BETA-IONONE	Plant				--
13	MUFA	Fruit	530.0	3965.0	-0.19628214752627327	Revised USDA data received 1993.
13	P-HYDROXY-BENZOIC-ACID	Plant				--
13	PALMITIC-ACID	Fruit	130.0	970.0	-0.35043476151081787	Revised USDA data received 1993.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	COPPER	Fruit	0.7	6.0	-0.5307153602504487	Revised USDA data received 1993.
11	SORBITOL	Fruit				--
11	MALTOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
11	PANTOTHENIC-ACID	Fruit	2.4	18.0	-0.006662132557618176	Revised USDA data received 1993.
10	XYLITOL	Fruit		0.4		--
9	PEDUNCULAGIN	Leaf				--
8	LACTIC-ACID	Leaf				--
8	GENTISIC-ACID	Plant				--
8	STEARIC-ACID	Fruit	130.0	970.0	-0.2148929675183572	Revised USDA data received 1993.
8	FRUCTOSE	Fruit				--
8	P-CRESOL	Plant				--
7	GLUCOSE	Fruit				--
7	ALPHA-CAROTENE	Fruit	0.13	0.6	-0.46232287758038665	--
7	SUCCINIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	SUCCINIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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	FURFURAL	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				--
6	IRON	Leaf	17.0	101.0	-0.664569650794051	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	ETHYL-ACETATE	Plant				--
6	IRON	Fruit	5.0	45.0	-0.34898531116184145	Revised USDA data received 1993.
6	BUTYRIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	CYANIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	CAPRYLIC-ACID	Fruit				--
5	SANGUIIN-H-6	Leaf				--
5	ALUMINUM	Leaf	66.0	392.0	-0.3598774207421672	--
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).
4	PROCYANIDIN-B-4	Plant				--
4	PROCYANIDIN-B-4	Leaf				--
4	PHOSPHORUS	Leaf	395.0	2340.0	-0.4841533669170441	--
4	PUFA	Fruit	3130.0	23410.0	0.8363439902360195	Revised USDA data received 1993.
4	TIN	Leaf	4.0	22.0	0.7648770558118653	--
4	SILICON	Leaf	0.2	1.3	-0.40932526208989356	--
4	PHOSPHORUS	Fruit	110.0	955.0	-0.6867540372783977	Revised USDA data received 1993.
4	PROCYANIDIN-B-4	Stem				--
4	PROCYANIDIN-B-4	Pericarp				--
3	XYLOSE	Fruit				--
3	ISOAMYL-ALCOHOL	Fruit				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
2	COBALT	Leaf	0.6	3.4	-0.27867675528926233	--
2	DIACETYL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	ISOBUTYRIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	BETA-CRYPTOXANTHIN	Fruit				--
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	N-NONACOSANE	Seed Oil				--
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.
1	SODIUM	Fruit	0.0	1.0	-0.18385595758003662	Revised USDA data received 1993.
1	SODIUM	Leaf	13.0	77.0	-0.6336091719663351	--
1	VALERIANIC-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				--
1	SANGUIIN-H-2	Leaf				--
0	HYDROXYCINNAMIC-ACID	Juice				--
0	CYANIDIN-3-GLUCOSIDE	Plant				--
0	KAEMPFEROL-3-O-BETA-D-GLUCURONIDE	Fruit		1.0		--
0	VIT-B-6	Fruit	0.5	4.3	-0.6565905620231853	Revised USDA data received 1993.
0	PROTEIN	Leaf	19097.0	113000.0	-0.9860748742162907	--
0	QUERCETIN-3-GLUCURONIDE	Juice	10.0	90.0		--
0	ORGANIC-ACIDS	Plant	15000.0	20000.0	-1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CARBOHYDRATES	Fruit	115700.0	865370.0	0.44110745013750263	Revised USDA data received 1993.
0	PROCYANIDIN-B-5	Leaf				--
0	HYDROXYBENZOIC-ACID	Juice				--
0	N-HEPTACOSANE	Seed Oil				--
0	QUERCETIN-3-O-BETA-D-GLUCORONIDE	Fruit		4.0		--
0	BETA-PHENYLETHYLALCOHOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	QUERCETIN-3-O-GALACTOSIDE	Juice	1.0	6.0		--
0	DIHYDRO-BETA-IONONE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	1-BETA-O-GALLOYLPEDUNCULAGIN	Leaf				--
0	ALPHA-FURANCARBONIC-ACID	Plant				--
0	KILOCALORIES	Leaf		2750.0	-0.43212504723366724	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	CIS-HEXEN-3-OL	Plant				--
0	HOMOPROTOCATECHUIC-ACID	Plant				--
0	ASH	Fruit	3880.0	30815.0	-0.6693626260182457	Revised USDA data received 1993.
0	O-PHTHALIC-ACID	Plant				--
0	KAEMPFEROL-3-BETA-GLUCURONIDE	Plant				--
0	GADOLEIC-ACID	Fruit	40.0	300.0	1.0	Revised USDA data received 1993.
0	ACETOIN	Fruit				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
0	ISOVALERIANIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TETRACOSAN-1-OL	Seed Oil				--
0	PELARGONIN-3,5-DIGLYCOSIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FLAVONOLS	Juice		122.0		--
0	PROCYANIDIN-G	Pericarp				--
0	DAMASCENE	Plant				--
0	LINOLENIC-ACID	Seed Oil				--
0	LINOLENIC-ACID	Fruit	1050.0	7855.0	0.1473004215517145	Revised USDA data received 1993.
0	CARBOHYDRATES	Leaf	133510.0	790000.0	1.4167610297591213	--
0	SFA	Fruit	190.0	1420.0	-0.3479590827314696	Revised USDA data received 1993.
0	PELARGONIN-3,2-GLUCOSYLROUTINOSIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FAT	Seed	145000.0	240000.0	-0.13372552418655537	--
0	PROCYANIDIN-G	Leaf				--
0	PROTEIN	Fruit	8800.0	70530.0	-0.5223902238389811	Revised USDA data received 1993.
0	5-METHYL-FURFURAL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	THIAMINE	Leaf	0.6	3.4	-0.43873738648145555	--
0	FAT	Fruit	5100.0	44130.0	-0.3041906994801652	Revised USDA data received 1993.
0	FAT	Leaf	2873.0	17000.0	-0.7863531000407186	--
0	PROCYANIDIN-B-8	Pericarp				--
0	WATER	Leaf		831000.0	0.11655419260711948	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETIN-3-O-ALPHA-L-GALACTOSIDE	Fruit				--
0	3-METHYL-2-BUTEN-1-OL	Plant				--
0	KILOCALORIES	Fruit	490.0	3665.0	0.006755743707852334	Revised USDA data received 1993.
0	SUGARS	Leaf	10140.0	60000.0	-0.7162601683395223	--
0	CYANIDIN-5-MONOGLYCOSIDE	Plant				--
0	LAMBERTIANIN-D	Leaf				--
0	CAPRONIC-ACID	Fruit				--
0	P-HYDROXYPHENYLETHYLALCOHOL	Plant				--
0	PROCYANIDIN-B-8	Leaf				--
0	ASH	Leaf	13520.0	80000.0	-0.6845191217694889	--
0	PROCYANIDIN-G	Stem				--
0	2-HEXEN-4-OLIDE	Plant				--
0	KAEMPFEROL-3-GLUCURONIDE	Juice	1.0	5.0		--
0	CYANIDIN-3-SOPHOROSIDE	Plant				--
0	LAMBERTIANIN-C	Leaf				--
0	HEXEN-3-ACID	Fruit				--
0	QUERCETIN-3-XYLOSYLGLUCURONIDE	Juice	1.0	6.0		--
0	P-ETHYL-PHENOL	Plant				--
0	PROCYANIDIN-B-5	Stem				--
0	TRANS-2-PHENYLBUTANONE	Plant				--
0	PROCYANIDIN-B-8	Stem				--
0	1-PENTEN-3-OL	Plant				--
0	FIBER(DIETARY)	Leaf		323000.0	-0.6193479291932424	--
0	LAMBERTIANIN-B	Leaf				--
0	HEXEN-2-ACID	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETIN-3-SOPHOROSIDE	Juice	1.0	80.0		--
0	O-PHTHALIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	1-PENTANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	QUERCETIN-3-BETA-GLUCURONIDE	Plant				--
0	FIBER(CRUDE)	Leaf		82000.0	-1.1842756430220331	--
0	CYANIDIN-3-GLUCOSYL-RUTINOSIDE	Plant				--
0	LAMBERTIANIN-A	Leaf				--
0	WATER	Fruit		865700.0	0.4136092014194993	Revised USDA data received 1993.
0	QUERCETIN-3-GLUCURONIDE	Fruit		1.0		--
0	OXYBENZOIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	EPOXY-BETA-IONONE	Plant				--
0	THEASPIRANE	Plant				--
0	PROCYANIDIN-B-5	Pericarp				--