

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Rubus idaeus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DAMASCENE	Plant				--
7	GLUCOSE	Fruit				--
16	ACETIC-ACID	Plant				--
9	PEDUNCULAGIN	Leaf				--
38	(-)-EPICATECHIN	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.
0	HOMOPROTOCATECHUIC-ACID	Plant				--
102	CAFFEIC-ACID	Plant				--
1	N-NONACOSANE	Seed Oil				--
20	BENZOIC-ACID	Plant				--
7	SUCCINIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
38	(-)-EPICATECHIN	Juice				--
5	CYANIN	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				--
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.
25	P-COUMARIC-ACID	Plant				--
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.
43	PROTOCATECHUIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	CAPRYLIC-ACID	Fruit				--
13	P-HYDROXY-BENZOIC-ACID	Plant				--
0	FLAVONOLS	Juice		122.0		--
18	MANNITOL	Fruit				--
43	PROTocatechuic-ACID	Juice				--
24	BENZALDEHYDE	Plant				--
7	SUCCINIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
30	(+)-CATECHIN	Juice				--
0	TETRACOSAN-1-OL	Seed Oil				--
0	CYANIDIN-5-MONOGLYCOSIDE	Plant				--
62	GALLIC-ACID	Plant				--
0	3-METHYL-2-BUTEN-1-OL	Plant				--
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.
11	MALTOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	VANILLIC-ACID	Plant				--
0	PROCYANIDIN-G	Pericarp				--
0	CAPRONIC-ACID	Fruit				--
17	FARNESOL	Plant				--
0	LINOLENIC-ACID	Seed Oil				--
10	XYLITOL	Fruit		0.4		--
14	SUCROSE	Fruit				--
0	CYANIDIN-3-SOPHOROSIDE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	FRUCTOSE	Fruit				--
0	2-HEXEN-4-OLIDE	Plant				--
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.
15	MALIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEXEN-3-ACID	Fruit				--
0	PROCYANIDIN-G	Leaf				--
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				--
6	ETHYL-ACETATE	Plant				--
27	LINOLEIC-ACID	Seed Oil				--
0	QUERCETIN-3-O-ALPHA-L-GALACTOSIDE	Fruit				--
1	CYANIDIN-3-RUTINOSIDE	Plant				--
61	FERULIC-ACID	Plant				--
0	1-PENTEN-3-OL	Plant				--
11	SORBITOL	Fruit				--
0	HEXEN-2-ACID	Fruit				--
0	PROCYANIDIN-B-8	Pericarp				--
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.
51	ELLAGIC-ACID	Juice	5.0	50.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	ETHANOL	Plant				--
0	LAMBERTIANIN-D	Leaf				--
0	PROCYANIDIN-G	Stem				--
0	CYANIDIN-3-GLUCOSYL-RUTINOSIDE	Plant				--
2	BETA-CRYPTOXANTHIN	Fruit				--
0	KAEMPFEROL-3-GLUCURONIDE	Juice	1.0	5.0		--
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	P-HYDROXYPHENYLETHYLALCOHOL	Plant				--
47	BETA-SITOSTEROL	Seed Oil				--
35	GERANIOL	Fruit				--
0	PROCYANIDIN-B-8	Leaf				--
0	QUERCETIN-3-XYLOSYLGLUCURONIDE	Juice	1.0	6.0		--
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	VALERIANIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
0	EPOXY-BETA-IONONE	Plant				--
0	LAMBERTIANIN-C	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
34	SALICYLIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PROCYANIDIN-B-8	Stem				--
25	P-COUMARIC-ACID	Bark				--
75	KAEMPFEROL	Juice				--
0	P-ETHYL-PHENOL	Plant				--
5	SANGUIIN-H-6	Leaf				--
0	CYANIDIN-3-GLUCOSIDE	Plant				--
62	GALLIC-ACID	Leaf				--
0	PROCYANIDIN-B-5	Stem				--
0	QUERCETIN-3-SOPHOROSIDE	Juice	1.0	80.0		--
0	TRANS-2-PHENYLBUTANONE	Plant				--
51	ELLAGIC-ACID	Leaf				--
0	LAMBERTIANIN-B	Leaf				--
15	RIBOFLAVIN	Leaf				--
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.
25	P-COUMARIC-ACID	Leaf				--
8	P-CRESOL	Plant				--
8	LACTIC-ACID	Leaf				--
1	SANGUIIN-H-2	Leaf				--
6	FURFURAL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	PROCYANIDIN-B-4	Stem				--
0	QUERCETIN-3-GLUCURONIDE	Fruit		1.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-PHENYLETHYLALCOHOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
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	LAMBERTIANIN-A	Leaf				--
25	P-COUMARIC-ACID	Juice				--
0	ALPHA-FURANCARBONIC-ACID	Plant				--
0	QUERCETIN-3-BETA-GLUCURONIDE	Plant				--
0	PROCYANIDIN-B-5	Pericarp				--
30	(+)-CATECHIN	Stem				--
0	HYDROXYCINNAMIC-ACID	Juice				--
0	OXYBENZOIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
38	(-)-EPICATECHIN	Plant				--
34	SALICYLIC-ACID	Plant				--
0	CIS-HEXEN-3-OL	Plant				--
13	FORMIC-ACID	Fruit				--
4	PROCYANIDIN-B-4	Pericarp				--
0	QUERCETIN-3-GLUCURONIDE	Juice	10.0	90.0		--
13	BETA-IONONE	Plant				--
0	THEASPIRANE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	O-PHTHALIC-ACID	Plant				--
2	DIACETYL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	KAEMPFEROL-3-O-BETA-D-GLUCURONIDE	Fruit		1.0		--
0	PROCYANIDIN-B-5	Leaf				--
0	HYDROXYBENZOIC-ACID	Juice				--
38	(-)-EPICATECHIN	Leaf				--
0	KAEMPFEROL-3-BETA-GLUCURONIDE	Plant				--
22	ISOQUERCITRIN	Fruit				--
6	CINNAMYL-ALCOHOL	Plant				--
30	(+)-CATECHIN	Pericarp				--
4	PROCYANIDIN-B-4	Plant				--
0	QUERCETIN-3-O-GALACTOSIDE	Juice	1.0	6.0		--
0	N-HEPTACOSANE	Seed Oil				--
0	ACETOIN	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.
4	PROCYANIDIN-B-4	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.
38	(-)-EPICATECHIN	Pericarp				--

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	QUERCETIN-3-O-BETA-D-GLUCORONIDE	Fruit		4.0		--
30	(+)-CATECHIN	Leaf				--
61	FERULIC-ACID	Fruit				--
0	1-BETA-O-GALLOYLPEDUNCULAGIN	Leaf				--
176	QUERCETIN	Juice				--
0	FIBER(CRUDE)	Leaf		82000.0	-1.1842756430220331	--
31	THIAMIN	Leaf		3.4	-1.0221493221185618	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ORGANIC-ACIDS	Plant	15000.0	20000.0	-1.0	--
0	PROTEIN	Leaf	19097.0	113000.0	-0.9860748742162907	--
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.
0	FAT	Leaf	2873.0	17000.0	-0.7863531000407186	--
14	POTASSIUM	Leaf	2265.0	13400.0	-0.7482125557868814	--
0	SUGARS	Leaf	10140.0	60000.0	-0.7162601683395223	--
4	PHOSPHORUS	Fruit	110.0	955.0	-0.6867540372783977	Revised USDA data received 1993.
0	ASH	Leaf	13520.0	80000.0	-0.6845191217694889	--
0	ASH	Fruit	3880.0	30815.0	-0.6693626260182457	Revised USDA data received 1993.
6	IRON	Leaf	17.0	101.0	-0.664569650794051	--
0	VIT-B-6	Fruit	0.5	4.3	-0.6565905620231853	Revised USDA data received 1993.
53	BETA-CAROTENE	Leaf	19.0	114.0	-0.6414752460100303	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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)
0	FIBER(DIETARY)	Leaf		323000.0	-0.6193479291932424	--
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.
0	PROTEIN	Fruit	8800.0	70530.0	-0.5223902238389811	Revised USDA data received 1993.
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.
0	THIAMINE	Leaf	0.6	3.4	-0.43873738648145555	--
28	CALCIUM	Leaf	2045.0	12100.0	-0.4330046318778217	--
0	KILOCALORIES	Leaf		2750.0	-0.43212504723366724	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
0	SFA	Fruit	190.0	1420.0	-0.3479590827314696	Revised USDA data received 1993.
65	MAGNESIUM	Fruit	175.0	1400.0	-0.33791055544330456	Revised USDA data received 1993.
0	FAT	Fruit	5100.0	44130.0	-0.3041906994801652	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	--
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.
0	FAT	Seed	145000.0	240000.0	-0.13372552418655537	--
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.
0	KILOCALORIES	Fruit	490.0	3665.0	0.006755743707852334	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	--
0	WATER	Leaf		831000.0	0.11655419260711948	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	MANGANESE	Fruit	10.0	80.0	0.12397207406698312	Revised USDA data received 1993.
0	LINOLENIC-ACID	Fruit	1050.0	7855.0	0.1473004215517145	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.
0	WATER	Fruit		865700.0	0.4136092014194993	Revised USDA data received 1993.
24	PECTIN	Leaf	8450.0	50000.0	0.4345814175326895	--
0	CARBOHYDRATES	Fruit	115700.0	865370.0	0.44110745013750263	Revised USDA data received 1993.
4	TIN	Leaf	4.0	22.0	0.7648770558118653	--
4	PUFA	Fruit	3130.0	23410.0	0.8363439902360195	Revised USDA data received 1993.
0	GADOLEIC-ACID	Fruit	40.0	300.0	1.0	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.
0	CARBOHYDRATES	Leaf	133510.0	790000.0	1.4167610297591213	--
15	FIBER	Fruit	30000.0	352280.0	1.9873569833760867	Revised USDA data received 1993.
39	NIACIN	Leaf	65.0	382.0	3.4605317922989003	--