

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Rubus idaeus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Fruit	4.0	37.0	0.2015288171723333	Revised USDA data received 1993.
77	ZINC	Leaf				--
3	XYLOSE	Fruit				--
10	XYLITOL	Fruit		0.4		--
0	WATER	Fruit		865700.0	0.4136092014194993	Revised USDA data received 1993.
0	WATER	Leaf		831000.0	0.11655419260711948	--
0	VIT-B-6	Fruit	0.5	4.3	-0.6565905620231853	Revised USDA data received 1993.
24	VANILLIC-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.
0	TRANS-2-PHENYLBUTANONE	Plant				--
93	TOCOPHEROL	Fruit	3.0	12.0	-0.6276472611238401	USDA's Ag Handbook 8 and sequelae)
4	TIN	Leaf	4.0	22.0	0.7648770558118653	--
0	THIAMINE	Leaf	0.6	3.4	-0.43873738648145555	--
31	THIAMIN	Leaf		3.4	-1.0221493221185618	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
31	THIAMIN	Fruit	0.3	2.2	-0.4010034158314492	Revised USDA data received 1993.
0	THEASPIRANE	Plant				--
0	TETRACOSAN-1-OL	Seed Oil				--
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.
0	SUGARS	Leaf	10140.0	60000.0	-0.7162601683395223	--
14	SUCROSE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
8	STEARIC-ACID	Fruit	130.0	970.0	-0.2148929675183572	Revised USDA data received 1993.
11	SORBITOL	Fruit				--
1	SODIUM	Leaf	13.0	77.0	-0.6336091719663351	--
1	SODIUM	Fruit	0.0	1.0	-0.18385595758003662	Revised USDA data received 1993.
4	SILICON	Leaf	0.2	1.3	-0.40932526208989356	--
0	SFA	Fruit	190.0	1420.0	-0.3479590827314696	Revised USDA data received 1993.
60	SELENIUM	Leaf	0.4	2.5	-0.19046045138655818	--
5	SANGUIN-H-6	Leaf				--
1	SANGUIN-H-2	Leaf				--
34	SALICYLIC-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.
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.
15	RIBOFLAVIN	Fruit	0.9	6.7	0.36209168106597706	Revised USDA data received 1993.
15	RIBOFLAVIN	Leaf				--
0	QUERCETIN-3-XYLOSYLGLUCURONIDE	Juice	1.0	6.0		--
0	QUERCETIN-3-SOPHOROSIDE	Juice	1.0	80.0		--
0	QUERCETIN-3-O-BETA-D-GLUCORONIDE	Fruit		4.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETIN-3-O-ALPHA-L-GALACTOSIDE	Fruit				--
0	QUERCETIN-3-GLUCURONIDE	Fruit		1.0		--
0	QUERCETIN-3-GLUCURONIDE	Juice	10.0	90.0		--
0	QUERCETIN-3-BETA-GLUCURONIDE	Plant				--
0	QUERCETIN-3-O-GALACTOSIDE	Juice	1.0	6.0		--
176	QUERCETIN	Juice				--
4	PUFA	Fruit	3130.0	23410.0	0.8363439902360195	Revised USDA data received 1993.
43	PROTocatechuic-acid	Plant				--
43	PROTocatechuic-acid	Juice				--
0	PROTEIN	Leaf	19097.0	113000.0	-0.9860748742162907	--
0	PROTEIN	Fruit	8800.0	70530.0	-0.5223902238389811	Revised USDA data received 1993.
6	PROPIONIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PROCYANIDIN-G	Pericarp				--
0	PROCYANIDIN-G	Leaf				--
0	PROCYANIDIN-G	Stem				--
0	PROCYANIDIN-B-8	Leaf				--
0	PROCYANIDIN-B-8	Stem				--
0	PROCYANIDIN-B-8	Pericarp				--
0	PROCYANIDIN-B-5	Stem				--
0	PROCYANIDIN-B-5	Pericarp				--
0	PROCYANIDIN-B-5	Leaf				--
4	PROCYANIDIN-B-4	Stem				--
4	PROCYANIDIN-B-4	Pericarp				--
4	PROCYANIDIN-B-4	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PROCYANIDIN-B-4	Leaf				--
14	POTASSIUM	Leaf	2265.0	13400.0	-0.7482125557868814	--
14	POTASSIUM	Fruit	1490.0	11635.0	-0.555747708167046	Revised USDA data received 1993.
4	PHOSPHORUS	Leaf	395.0	2340.0	-0.4841533669170441	--
4	PHOSPHORUS	Fruit	110.0	955.0	-0.6867540372783977	Revised USDA data received 1993.
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	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.
9	PEDUNCULAGIN	Leaf				--
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	PECTIN	Leaf	8450.0	50000.0	0.4345814175326895	--
11	PANTOTHENIC-ACID	Fruit	2.4	18.0	-0.006662132557618176	Revised USDA data received 1993.
13	PALMITIC-ACID	Fruit	130.0	970.0	-0.35043476151081787	Revised USDA data received 1993.
0	P-HYDROXYPHENYLETHYLALCOHOL	Plant				--
13	P-HYDROXY-BENZOIC-ACID	Plant				--
0	P-ETHYL-PHENOL	Plant				--
8	P-CRESOL	Plant				--
25	P-COUMARIC-ACID	Bark				--
25	P-COUMARIC-ACID	Leaf				--
25	P-COUMARIC-ACID	Juice				--
25	P-COUMARIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	ORGANIC-ACIDS	Plant	15000.0	20000.0	-1.0	--
18	OLEIC-ACID	Fruit	490.0	3665.0	-0.4524977786497885	Revised USDA data received 1993.
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	O-PHTHALIC-ACID	Plant				--
39	NIACIN	Leaf	65.0	382.0	3.4605317922989003	--
39	NIACIN	Fruit	9.0	67.0	0.08424528986355267	Revised USDA data received 1993.
1	N-NONACOSANE	Seed Oil				--
0	N-HEPTACOSANE	Seed Oil				--
13	MUFA	Fruit	530.0	3965.0	-0.19628214752627327	Revised USDA data received 1993.
18	MANNITOL	Fruit				--
14	MANGANESE	Leaf	25.0	146.0	-0.21716694893797103	--
14	MANGANESE	Fruit	10.0	80.0	0.12397207406698312	Revised USDA data received 1993.
11	MALTOL	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.
65	MAGNESIUM	Fruit	175.0	1400.0	-0.33791055544330456	Revised USDA data received 1993.
65	MAGNESIUM	Leaf	539.0	3190.0	-0.361322498820846	--
15	LUTEIN	Fruit	0.76	4.0	-0.48918352740142235	--
0	LINOLENIC-ACID	Fruit	1050.0	7855.0	0.1473004215517145	Revised USDA data received 1993.
0	LINOLENIC-ACID	Seed Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
27	LINOLEIC-ACID	Fruit	2080.0	15555.0	-0.13594241677819272	Revised USDA data received 1993.
27	LINOLEIC-ACID	Seed Oil				--
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.
0	LAMBERTIANIN-D	Leaf				--
0	LAMBERTIANIN-C	Leaf				--
0	LAMBERTIANIN-B	Leaf				--
0	LAMBERTIANIN-A	Leaf				--
8	LACTIC-ACID	Leaf				--
0	KILOCALORIES	Leaf		2750.0	-0.43212504723366724	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	KILOCALORIES	Fruit	490.0	3665.0	0.006755743707852334	Revised USDA data received 1993.
0	KAEMPFEROL-3-O-BETA-D-GLUCURONIDE	Fruit		1.0		--
0	KAEMPFEROL-3-GLUCURONIDE	Juice	1.0	5.0		--
0	KAEMPFEROL-3-BETA-GLUCURONIDE	Plant				--
75	KAEMPFEROL	Juice				--
0	ISOVALERIANIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
22	ISOQUERCITRIN	Fruit				--
2	ISOBUTYRIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	ISOAMYL-ALCOHOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	IRON	Fruit	5.0	45.0	-0.34898531116184145	Revised USDA data received 1993.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	IRON	Leaf	17.0	101.0	-0.664569650794051	--
0	HYDROXYCINNAMIC-ACID	Juice				--
0	HYDROXYBENZOIC-ACID	Juice				--
0	HOMOPROTECATECHUIC-ACID	Plant				--
0	HEXEN-3-ACID	Fruit				--
0	HEXEN-2-ACID	Fruit				--
7	GLUCOSE	Fruit				--
35	GERANIOL	Fruit				--
8	GENTISIC-ACID	Plant				--
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				--
0	GADOLEIC-ACID	Fruit	40.0	300.0	1.0	Revised USDA data received 1993.
6	FURFURAL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	FRUCTOSE	Fruit				--
13	FORMIC-ACID	Fruit				--
0	FLAVONOLS	Juice		122.0		--
0	FIBER(DIETARY)	Leaf		323000.0	-0.6193479291932424	--
0	FIBER(CRUDE)	Leaf		82000.0	-1.1842756430220331	--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
61	FERULIC-ACID	Fruit				--
61	FERULIC-ACID	Plant				--
0	FAT	Seed	145000.0	240000.0	-0.13372552418655537	--
0	FAT	Leaf	2873.0	17000.0	-0.7863531000407186	--
0	FAT	Fruit	5100.0	44130.0	-0.3041906994801652	Revised USDA data received 1993.
17	FARNESOL	Plant				--
6	ETHYL-ACETATE	Plant				--
24	ETHANOL	Plant				--
0	EPOXY-BETA-IONONE	Plant				--
51	ELLAGIC-ACID	Leaf				--
51	ELLAGIC-ACID	Juice	5.0	50.0		--
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.
2	DIACETYL	Fruit				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	DAMASCENE	Plant				--
5	CYANIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CYANIDIN-5-MONOGLYCOSIDE	Plant				--
0	CYANIDIN-3-SOPHOROSIDE	Plant				--
1	CYANIDIN-3-RUTINOSIDE	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.
0	CYANIDIN-3-GLUCOSYL-RUTINOSIDE	Plant				--
0	CYANIDIN-3-GLUCOSIDE	Plant				--
12	COPPER	Fruit	0.7	6.0	-0.5307153602504487	Revised USDA data received 1993.
2	COBALT	Leaf	0.6	3.4	-0.27867675528926233	--
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	CIS-HEXEN-3-OL	Plant				--
6	CINNAMYL-ALCOHOL	Plant				--
24	CHROMIUM	Leaf	0.2	1.3	-0.5356966871657832	--
0	CARBOHYDRATES	Fruit	115700.0	865370.0	0.44110745013750263	Revised USDA data received 1993.
0	CARBOHYDRATES	Leaf	133510.0	790000.0	1.4167610297591213	--
5	CAPRYLIC-ACID	Fruit				--
0	CAPRONIC-ACID	Fruit				--
28	CALCIUM	Fruit	220.0	1645.0	-0.5102772768150714	Revised USDA data received 1993.
28	CALCIUM	Leaf	2045.0	12100.0	-0.4330046318778217	--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	BUTYRIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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).
47	BETA-SITOSTEROL	Seed Oil				--
0	BETA-PHENYLETHYLALCOHOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	BETA-IONONE	Plant				--
2	BETA-CRYPTOXANTHIN	Fruit				--
53	BETA-CAROTENE	Leaf	19.0	114.0	-0.6414752460100303	--
53	BETA-CAROTENE	Fruit	0.06	7.0	-0.13726975525121177	--
20	BENZOIC-ACID	Plant				--
24	BENZALDEHYDE	Plant				--
0	ASH	Fruit	3880.0	30815.0	-0.6693626260182457	Revised USDA data received 1993.
0	ASH	Leaf	13520.0	80000.0	-0.6845191217694889	--
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	--
5	ALUMINUM	Leaf	66.0	392.0	-0.3598774207421672	--
32	ALPHA-TOCOPHEROL	Fruit	9.0	56.0	-0.2596481602858355	--
0	ALPHA-FURANCARBONIC-ACID	Plant				--
7	ALPHA-CAROTENE	Fruit	0.13	0.6	-0.46232287758038665	--

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0	ACETOIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
16	ACETIC-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.
0	3-METHYL-2-BUTEN-1-OL	Plant				--
0	2-HEXEN-4-OLIDE	Plant				--
0	1-PENTEN-3-OL	Plant				--
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	1-BETA-O-GALLOYLPEDUNCULAGIN	Leaf				--
38	(-)-EPICATECHIN	Plant				--
38	(-)-EPICATECHIN	Leaf				--
38	(-)-EPICATECHIN	Pericarp				--
38	(-)-EPICATECHIN	Stem				--
38	(-)-EPICATECHIN	Juice				--
30	(+)-CATECHIN	Stem				--
30	(+)-CATECHIN	Pericarp				--
30	(+)-CATECHIN	Leaf				--
30	(+)-CATECHIN	Juice				--