

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Prunus domestica*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	BORON	Fruit	1.0	255.0	4.330210256273393	--
77	ZINC	Fruit	0.66	131.0	3.029601293744294	--
0	ASH	Fruit	3810.0	170000.0	2.934881305481353	--
14	POTASSIUM	Fruit	1677.0	44200.0	2.3253958939761827	--
12	COPPER	Fruit	0.33	34.0	1.6485090782726148	--
0	ARACHIDIC-ACID	Seed	21450.0	23100.0	1.6056855743398462	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
18	OLEIC-ACID	Seed	254280.0	306600.0	1.5413318078145604	--
15	LUTEIN	Fruit	2.4	24.0	1.238963819500432	--
3	ASPARTIC-ACID	Fruit	2490.0	16824.0	0.8756786146469363	USDA's Ag Handbook 8 and sequelae)
0	FAT	Seed	390000.0	420000.0	0.8143988616679225	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	WATER	Fruit	840000.0	933000.0	0.706235900945411	--
3	SILVER	Fruit	0.022	0.51	0.7044537751050876	--
65	MAGNESIUM	Fruit	68.0	3400.0	0.5882056441128131	--
0	CARBOHYDRATES	Fruit	130100.0	879054.0	0.5142828304224887	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Fruit	0.9	6.5	0.3192583523081722	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Fruit	70.0	4080.0	0.26243280144802444	--
0	LEAD	Fruit	0.02	11.9	0.213361351074291	--
13	MUFA	Fruit	4060.0	27432.0	0.14536086839393333	USDA's Ag Handbook 8 and sequelae)
2	ARSENIC	Fruit	0.001	0.51	0.11665571343117484	--
0	KILOCALORIES	Fruit	550.0	3716.0	0.08421593460273638	USDA's Ag Handbook 8 and sequelae)
0	SUGAR	Fruit	100000.0	200000.0	0.08026620719912841	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
8	FRUCTOSE	Fruit	27000.0	61000.0	0.05243785755490293	USDA's Ag Handbook 8 and sequelae)
15	MALIC-ACID	Fruit		15000.0	0.024800410439220405	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BARIUM	Fruit	0.154	25.5	0.006240152522696096	--
47	BETA-SITOSTEROL	Fruit	60.0	600.0	-0.005912464248786014	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
53	BETA-CAROTENE	Fruit	1.4	43.0	-0.06768240387130633	--
0	ZIRCONIUM	Fruit	0.44	3.4	-0.07324490692265731	--
6	MYRISTIC-ACID	Seed	14820.0	15960.0	-0.08707301475681413	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	FIBER	Seed		122000.0	-0.10090376651793666	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	SALICYLATES	Fruit	1.0	70.0	-0.13601954960792303	--
2	MOLYBDENUM	Fruit	0.1	1.7	-0.14452250402230155	--
5	ALUMINUM	Fruit	1.0	255.0	-0.1493363881743824	--
24	PECTIN	Fruit	8000.0	40000.0	-0.15534295636880713	--
32	ALPHA-TOCOPHEROL	Fruit	8.0	62.0	-0.16729415314942792	--
0	TITANIUM	Fruit	0.11	25.5	-0.17721257957021036	--
1	SODIUM	Fruit	0.0	54.0	-0.17883002710316093	--
8	STEARIC-ACID	Seed	16380.0	17640.0	-0.18266194043994524	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	IRON	Fruit	0.8	85.0	-0.19031609195369079	--
4	PUFA	Fruit	1340.0	9054.0	-0.19136931525983306	USDA's Ag Handbook 8 and sequelae)
11	LITHIUM	Fruit	0.088	0.68	-0.20051020792681978	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
27	LINOLEIC-ACID	Seed	54600.0	83160.0	-0.2053104796471306	--
5	PHYLLOQUINONE	Fruit		0.08	-0.2204624252068342	--
1	MERCURY	Fruit	0.0	0.013	-0.22601693430528877	--
27	LINOLEIC-ACID	Fruit	1340.0	9054.0	-0.22766166484399425	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Fruit	0.22	25.5	-0.23539381642326695	--
7	GLUCOSE	Fruit	30000.0	62000.0	-0.237070496896815	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	STEARIC-ACID	Fruit	90.0	608.0	-0.2389000914701178	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Fruit	86.0	699.0	-0.24102728755586394	USDA's Ag Handbook 8 and sequelae)
0	STRONTIUM	Fruit	0.33	51.0	-0.25740162036724845	--
3	NICKEL	Fruit	0.03	1.7	-0.26245611683869374	--
18	OLEIC-ACID	Fruit	4000.0	27027.0	-0.27243901876184246	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Seed		202000.0	-0.28284248711214627	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	PALMITOLEIC-ACID	Fruit	50.0	338.0	-0.2836544623771857	USDA's Ag Handbook 8 and sequelae)
0	RUBIDIUM	Fruit	0.5	15.0	-0.30333758977072306	ACTA AGRIC SCAND SUPPL 22: 1980
0	SFA	Fruit	490.0	3310.0	-0.3064790340576511	USDA's Ag Handbook 8 and sequelae)
0	FAT	Fruit	6000.0	43243.0	-0.31096553413275374	USDA's Ag Handbook 8 and sequelae)
31	THIAMIN	Fruit	0.4	2.9	-0.3113997116946362	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Fruit	410.0	2770.0	-0.3224125682450592	USDA's Ag Handbook 8 and sequelae)
0	NITROGEN	Fruit	960.0	10000.0	-0.32410478091260314	ACTA AGRIC SCAND SUPPL 22: 1980
11	PANTOTHENIC-ACID	Fruit	1.8	13.0	-0.32559401031592866	USDA's Ag Handbook 8 and sequelae)
24	CHROMIUM	Fruit	0.005	1.19	-0.3404880474798064	--
39	NIACIN	Fruit	5.0	34.0	-0.35690744058960266	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	VIT-B-6	Fruit	0.7	6.0	-0.3708031557292606	USDA's Ag Handbook 8 and sequelae)
60	SELENIUM	Fruit	0.0	0.013	-0.38296354387544557	--
9	HCN	Seed		500.0	-0.38562126331215646	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
14	SUCROSE	Fruit	7000.0	48000.0	-0.406483422316692	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	SILICON	Fruit	2.0	62.0	-0.4070066241581148	ACTA AGRIC SCAND SUPPL 22: 1980
28	CALCIUM	Fruit	38.0	2040.0	-0.41912692938201646	--
0	BROMINE	Fruit		1.0	-0.42563543443835	ACTA AGRIC SCAND SUPPL 22: 1980
3	CADMIUM	Fruit	0.001	0.068	-0.4437779567837812	--
0	PROLINE	Fruit	340.0	2297.0	-0.469542420448155	USDA's Ag Handbook 8 and sequelae)
7	LAURIC-ACID	Seed	3510.0	3780.0	-0.47843221116213885	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	AMYGDALIN	Seed		25000.0	-0.48567616067806124	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	COBALT	Fruit	0.005	0.34	-0.49395506957206337	--
7	HISTIDINE	Fruit	130.0	878.0	-0.5851615282591455	USDA's Ag Handbook 8 and sequelae)
35	TANNIN	Bark		68000.0	-0.6393311423437816	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
13	PALMITIC-ACID	Seed	2340.0	2520.0	-0.6476052728673493	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	VALINE	Fruit	190.0	1284.0	-0.6538521980497439	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	METHIONINE	Fruit	60.0	405.0	-0.6816215512144603	USDA's Ag Handbook 8 and sequelae)
3	ALANINE	Fruit	290.0	1959.0	-0.6872096647040113	USDA's Ag Handbook 8 and sequelae)
20	LECITHIN	Seed		1500.0	-0.6984310816325906	USDA's Ag Handbook 8 and sequelae)
14	SULFUR	Fruit	4.0	400.0	-0.7061235444004158	--
0	PROTEIN	Fruit	7660.0	55000.0	-0.7305766269277133	USDA's Ag Handbook 8 and sequelae)
0	FLUORINE	Fruit	0.1	0.6	-0.744462097809404	ACTA AGRIC SCAND SUPPL 22: 1980
7	PHENYLALANINE	Fruit	170.0	1149.0	-0.7549264203755145	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Fruit	160.0	1081.0	-0.7679236033265786	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Fruit	170.0	1149.0	-0.7680376728647491	USDA's Ag Handbook 8 and sequelae)
15	FOLACIN	Fruit	0.019	0.167	-0.768243001115215	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Fruit	210.0	1419.0	-0.7827816849024111	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Fruit	40.0	270.0	-0.794133960911505	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Fruit	160.0	1081.0	-0.8050701430896549	USDA's Ag Handbook 8 and sequelae)
1	SERINE	Fruit	200.0	1351.0	-0.8091946012008524	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Fruit	60.0	405.0	-0.8344353289838745	USDA's Ag Handbook 8 and sequelae)
8	GLUTAMIC-ACID	Fruit	370.0	2500.0	-0.8356206533798067	USDA's Ag Handbook 8 and sequelae)
14	ARGININE	Fruit	130.0	878.0	-0.9153794296642861	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Fruit	6000.0	40540.0	-0.9543715091030212	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Fruit	120.0	811.0	-1.0806642206860306	USDA's Ag Handbook 8 and sequelae)
2	PHYTOSTEROLS	Sprout Seedling	70.0	700.0	-1.2661611001545428	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
0	PHOSPHATIDES	Seed		3000.0	-1.3532248739843322	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

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26	SEROTONIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEXURONIC-ACID	Resin, Exudate, Sap				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	4-O-METHYL-GLUCURONIC-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	Fruit				Jim Duke's personal files.
23	CITRIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	DIHYDROKAEMPFEROL	Wood				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	SUCCINIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LANTHANUM	Fruit	1.5	12.0		--
11	TYRAMINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DIHYDROKAEMPFERIDE	Wood				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
77	CHLOROGENIC-ACID	Fruit				Jim Duke's personal files.
4	TRYPTAMINE	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	D-XYLOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	RHAMNOSE	Fruit				USDA's Ag Handbook 8 and sequelae)
75	KAEMPFEROL	Wood				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	NEOXANTHIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	D-MANNOSE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	QUINIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	KAEMPFERIDE	Wood				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FLAVOXANTHIN	Fruit				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
2	NEO-CHLOROGENIC-ACID	Fruit				Jim Duke's personal files.
0	PERSICAXANTHIN	Plant				J.S. Glasby Dict.Pl's Containing 2ndary Metabolite. 1991.
0	D-GALACTOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
176	QUERCETIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
102	CAFFEIC-ACID	Plant				--
4	ISOCHLOROGENIC-ACID	Fruit				Jim Duke's personal files.
6	TARTARIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	CYANIDIN	Plant				--
0	PRUDOMESTIN	Wood				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	CRYPTOCHLOROGENIC-ACID	Fruit				Jim Duke's personal files.
61	FERULIC-ACID	Fruit				Jim Duke's personal files.