

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Fagopyrum esculentum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	CARBOHYDRATES	Seed	650000.0	817700.0	1.169598567753539	--
0	WATER	Seed	110000.0	128000.0	-0.3822339891455612	--
0	PROTEIN	Seed	103000.0	129000.0	-0.9322152922090841	--
15	FIBER	Seed	42400.0	99000.0	-0.2825156947289888	--
87	RUTIN	Flower	40000.0	63700.0	0.2299159705378943	--
0	FAT	Seed	19800.0	24000.0	-1.2714747872119285	--
0	ASH	Seed	19000.0	24000.0	-0.7182572214591987	--
0	FLAVONOIDS	Petiole	12130.0	14635.0		--
0	PHYTIN	Seed	12000.0	24000.0	-0.07278862011428815	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
87	RUTIN	Leaf	11600.0	63700.0	2.950094206508481	--
18	OLEIC-ACID	Seed	6650.0	13200.0	-0.8705884610829154	--
27	LINOLEIC-ACID	Seed	3960.0	6078.0	-0.8657567082231101	--
14	POTASSIUM	Seed	3715.0	4480.0	-0.711467763399164	--
0	FLAVONOIDS	Seed	3715.0	4075.0	1.0	--
0	KILOCALORIES	Seed	3350.0	3897.0	-0.752731447820404	--
4	PHOSPHORUS	Seed	2820.0	3200.0	-0.569043066215292	--
13	PALMITIC-ACID	Seed	2574.0	3120.0	-0.6352253260355776	--
2	PHYTOSTEROLS	Seed	1980.0	2270.0	-0.027045427111418358	--
47	BETA-SITOSTEROL	Seed	1640.0	1880.0	0.09043865051204356	--
87	RUTIN	Plant	1000.0	68300.0	0.3436567156061438	--
0	CARNAUBIC-ACID	Seed	990.0	1200.0	1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
87	RUTIN	Stem	600.0	50600.0		--
87	RUTIN	Petiole	505.0	975.0		--
28	CALCIUM	Seed	241.0	1140.0	-0.5521526716754526	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	CAMPESTEROL	Seed	200.0	230.0	-0.14705384771164434	--
87	RUTIN	Seed	87.0	511.0	-0.8171633178530503	--
12	STIGMASTEROL	Seed	80.0	92.0	-0.4133439069213976	--
6	IRON	Seed	30.0	132.0	-0.08731851619192986	--
39	NIACIN	Seed	20.0	44.0	0.03334512236633281	--
4	BORON	Seed	4.0	8.0	-0.7642449367068078	--
31	THIAMIN	Seed	2.7	9.0	0.5763820643107227	--
15	RIBOFLAVIN	Seed	1.7	1.8	-0.6608133401304368	--
12	IODINE	Seed	0.016	0.155	-0.26399018719983336	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
11	PANTOTHENIC-ACID	Seed		14.0	-0.28733152465648376	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
0	HEXAN-1-AL	Seed				--
7	CYANIDIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
25	P-COUMARIC-ACID	Testa				--
0	LYSOPHOSPHATIDYLSERINE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DOCOSENOIC-ACID	Pollen Or Spore				--
3	ASPARTIC-ACID	Seed		12000.0	-0.9400417445557275	--
1	SILICIC-ACID	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	NORVALINE	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PROLINE	Seed		5965.0	-1.0551551244383455	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
0	NONAN-1-AL	Seed				--
7	SALICYLATES	Seed		0.0	-0.3401776874861938	--
0	HEXADECENOIC-ACID	Pollen Or Spore				--
23	CITRIC-ACID	Leaf		8200.0	-0.2128427556455255	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	ISOVITEXIN	Testa				--
0	LYSOPHOSPHATIDYLETHA NOLAMINE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	BETA-AMYRIN	Seed				--
18	VITEXIN	Cotyledon				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	SERINE	Seed		7110.0	-0.6639363192931697	--
0	N-TETRADECANE	Seed				--
1	MYRISTOLEIC-ACID	Pollen Or Spore				--
0	HOMOORIENTIN	Cotyledon				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	OXALIC-ACID	Leaf		111000.0	2.7765850673785675	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEPTADECENOIC-ACID	Pollen Or Spore				--
77	CHLOROGENIC-ACID	Plant				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
4	ISOORIENTIN	Testa				--
0	LYSOPHOSPHATIDYLCHOLINE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	BEHENIC-ACID	Pollen Or Spore				--
112	ASCORBIC-ACID	Seed		0.0	-0.33845664486186666	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
3	VALINE	Seed		8140.0	-0.4768176540786459	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
60	SELENIUM	Seed		0.2	-0.26179413521870387	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
0	RHAMNOSE	Leaf		28300.0		--
6	MYRISTIC-ACID	Pollen Or Spore				--
7	HISTIDINE	Seed		2750.0	-0.8969922452806592	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
4	ORIENTIN	Cotyledon				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FAGOPYRUM-TRYPEPTIDE	Seed				--
7	CHLORINE	Seed		138.0	-0.4559705479062515	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
14	HYPERIN	Testa		50.0		--
4	LYSINE	Seed		7110.0	-0.6757339767584645	--
0	AROMADENDRIN-3-O-BETA-GALACTOSIDE	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	ARGININE	Seed		11910.0	-0.5390515983018082	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
8	TYROSINE	Seed		2750.0	-1.1562204722058103	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
0	SAPONARETIN	Cotyledon				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	PROCYANIDIN-B-2	Root				--
44	QUERCITRIN	Seed				--
15	METHIONINE	Seed				--
9	HCN	Seed		7.0	-0.40711065577977373	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
87	RUTIN	Testa		43.0		--
0	FAGOPYRUM-PROTEASE-INHIBITOR-BWI-3	Seed		6000.0		--
12	ARACHIDONIC-ACID	Pollen Or Spore				--
0	ARACHIDIC-ACID	Seed		459.0	-0.6108867512616759	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
29	TRYPTOPHAN	Seed		2065.0	-0.42973404451137776	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
1	PROCYANIDIN-B-2	Tissue Culture				--
0	LINOLENIC-ACID	Seed		917.0	-0.5638536063149775	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
176	QUERCETIN	Sprout Seedling				--
0	MARGARIC-ACID	Pollen Or Spore				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	GLYCINE	Seed		9750.0	-0.17381550404553908	--
176	QUERCETIN	Testa		25.0		--
3	NICKEL	Seed		1.0	-0.7177137482456848	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
0	FAGOPYRUM-PROTEASE-INHIBITOR-BWI-2	Seed		26000.0		--
10	ALPHA-AMYRIN	Seed				--
3	ALANINE	Seed		6880.0	-0.6964595446030353	--
93	TOCOPHEROL	Seed		42.0	-0.40072154339900284	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
18	VITEXIN	Testa				--
9	PHYTIC-ACID	Plant		10800.0		--
176	QUERCETIN	Seed				--
0	PHOSPHOLIPIDS	Seed		34000.0	1.962547079813769	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LINOLENIC-ACID	Pollen Or Spore				--
8	GLUTAMIC-ACID	Seed		23300.0	-0.7768697621210507	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
43	PROTocatechuic-ACID	Testa		134.0		--
0	FAGOPYRUM-PROTEASE-INHIBITOR-BWI-1	Seed		25000.0		--
0	3,4-DIHYDROXYBENZALDEHYDE	Testa		61.0		--
0	3,4-DIHYDROXY-2-PIPERIDINOMETHANOL	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
4	THREONINE	Seed		5850.0	-0.5116903560459456	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRIDECAN-1-OIC-ACID	Pollen Or Spore				--
0	PENTADECENOIC-ACID	Pollen Or Spore				--
2	LEUCINE	Seed		8140.0	-0.8558650541221829	--
38	(-)-EPICATECHIN	Root				--
0	PROTEASE-INHIBITOR-BWI-1	Seed				--
0	PHOSPHATIDYL-SERINE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
27	LINOLEIC-ACID	Pollen Or Spore				--
3	PROCYANIDIN-B-2-3'-O-GALLATE	Tissue Culture				--
6	MYRISTIC-ACID	Seed		115.0	-0.2944977681415562	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
2	FAGOPYRIN	Flower				--
7	(-)-EPICATECHIN-3-O-GALLATE	Tissue Culture				--
0	TAXIFOLIN-3-O-XYLOSIDE	Seed				--
1	PENTADECANOIC-ACID	Pollen Or Spore				--
0	L-SACCHAROPINE	Seed				Chemical Constituents of Oriental Herbs (3 diff. books)
38	(-)-EPICATECHIN	Seed		26.0		--
3	PROCYANIDIN-B-2-3'-O-GALLATE	Root				--
0	PHOSPHATIDYL-ETHANOLAMINE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	LAURIC-ACID	Pollen Or Spore				--
0	PROCYANIDIN-B1-O-GALLATE	Tissue Culture				--
2	MOLYBDENUM	Seed		5.5	0.28159995119292547	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ERIODICTYOL-5-O-METHYL-ETHER-7-O-BETA-D-GLUCOPYRANOSYL-(1,4)-O-BETA-D-GALACTOPYRANOSIDE	Seed		670.0		--
102	CAFFEIC-ACID	Plant				--
38	(-)-EPICATECHIN	Tissue Culture				--
8	STEARIC-ACID	Pollen Or Spore				--
13	PALMITIC-ACID	Pollen Or Spore				--
30	(+)-CATECHIN	Root				--
2	PHOSPHATIDYL-CHOLINE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
30	HYPEROSIDE	Seed				--
2	FAGOPYRIN	Plant				--
34	PROANTHOCYANIDINS	Testa				--
0	MALTASE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	DODECATRIENOIC-ACID	Pollen Or Spore				--
0	(+)-EPICATECHIN	Tissue Culture				--
8	STEARIC-ACID	Seed		460.0	-0.5554096022927567	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
14	SHIKIMIC-ACID	Hypocotyl				--
176	QUERCETIN	Plant				--
18	OLEIC-ACID	Pollen Or Spore				--
3	ISOLEUCINE	Seed		6080.0	-0.5629211289824911	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
24	VANILLIC-ACID	Testa				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	PHENYLALANINE	Seed		5045.0	-0.7756696911046915	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
30	HYPEROSIDE	Testa		50.0		--
2	CYSTINE	Seed		2752.0	-0.27685428111609905	--
13	P-HYDROXY-BENZOIC-ACID	Testa				--
15	MALIC-ACID	Leaf		15100.0	0.6105708397676417	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DODECADIENOIC-ACID	Pollen Or Spore				--
30	(+)-CATECHIN	Tissue Culture				--
1	SODIUM	Seed		0.0	-0.7157164086708291	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
5	STARCH	Seed		670000.0	1.4571424309016308	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	SALICYLALDEHYDE	Seed				--
0	OCTAN-2-OL	Seed				--
6	SYRINGIC-ACID	Testa				--