

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vicia faba*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	(-)-JASMONIC-ACID	Seed				--
3	ALANINE	Seed	2280.0	12000.0	0.3919500334549592	USDA's Ag Handbook 8 and sequelae)
14	ARGININE	Seed	4630.0	24370.0	-0.011449414813196206	USDA's Ag Handbook 8 and sequelae)
2	ARSENIC	Fruit	0.2	1.4	1.2572161256662924	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
112	ASCORBIC-ACID	Seed	330.0	1735.0	0.7031485325200385	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Fruit	120.0	820.0	-0.23350387143560922	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	ASPARAGINE	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	ASPARTIC-ACID	Seed	6310.0	33210.0	0.9428870560728585	USDA's Ag Handbook 8 and sequelae)
53	BETA-CAROTENE	Seed	2.1	11.0	0.2582933174000758	USDA's Ag Handbook 8 and sequelae)
53	BETA-CAROTENE	Fruit	0.1	0.6	-0.1496408399409727	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
47	BETA-SITOSTEROL	Seed	950.0	4500.0	1.0958099722356305	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
13	BETULIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	BIOTIN	Seed		0.03	-0.5323004434665808	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	BUTEIN	Fruit	0.02	7.0		--
102	CAFFEIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	CALCIUM	Seed	220.0	31160.0	4.961258926447746	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Fruit	500.0	3425.0	-0.09952381243320346	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	CAMPESTEROL	Seed	80.0	400.0	0.204104838797098	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
7	CHLORINE	Fruit	430.0	2945.0	1.4248655741013114	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	CHOLESTEROL	Oil		400.0	-1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
20	CHOLINE	Fruit	50.0	340.0	-0.5359421050923636	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
23	CITRIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
12	COPPER	Fruit		1.7	-0.8653819704522049	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
13	COUMESTROL	Seed	0.0	49.0	1.999475197646636	H. Adlercreutz, pers. comm.
2	CYSTINE	Seed	770.0	4050.0	0.6261413683381543	USDA's Ag Handbook 8 and sequelae)
32	DAIDZEIN	Seed	5.0	18.0	-0.4448977050654623	--
1	DOPA	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
40	EPICATECHIN	Testa				--
6	EPIGALLOCATECHIN	Testa				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	FABATIN	Seed				--
61	FERULIC-ACID	Plant				--
15	FIBER	Seed	22000.0	115780.0	-0.1500179488428386	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Fruit	20000.0	137000.0	-0.04412858107153739	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	FUMARIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	GALLOCATECHIN-(4ALPHA->8)-EPIGALLOCATECHIN	Testa				--
81	GENISTEIN	Seed	0.0	19.9	-0.30348801020726357	--
8	GLUTAMIC-ACID	Seed	8550.0	45000.0	0.13867244364613796	USDA's Ag Handbook 8 and sequelae)
3	GLYCERIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
12	GLYCINE	Seed	2300.0	12100.0	0.16595355777482973	USDA's Ag Handbook 8 and sequelae)
9	HCN	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	HISTIDINE	Seed	1340.0	7050.0	0.2461530525605589	USDA's Ag Handbook 8 and sequelae)
12	IODINE	Fruit	0.09	0.6	-0.28751431687054485	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	IRON	Seed	19.0	100.0	-0.2360003199095645	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Seed	2510.0	13210.0	0.34687775063862175	USDA's Ag Handbook 8 and sequelae)
75	KAEMPFEROL	Shoot				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	KAEMPFEROL-7-GLUCOSIDE	Fruit	0.03	1.3		--
25	L-DOPA	Sprout Seedling	500.0	60000.0		--
25	L-DOPA	Stem		34560.0		--
25	L-DOPA	Seed	1500.0	2500.0		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
25	L-DOPA	Fruit	2500.0	25000.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
25	L-DOPA	Flower		110000.0		--
2	LEUCINE	Seed	4320.0	22735.0	0.5411511014670063	USDA's Ag Handbook 8 and sequelae)
1	LEUCOCYANIDIN	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	LEUCODELPHINIDIN	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
27	LINOLEIC-ACID	Seed	1200.0	6315.0	-0.8637260686941344	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Seed	3660.0	19265.0	0.9707255897539737	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Seed	380.0	2000.0	-0.37379944602943677	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Fruit	330.0	2260.0	0.06031941036582599	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	MALIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
13	MEDICARPIN	Plant				--
13	MEDICARPIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	METHIONINE	Seed	430.0	2265.0	-0.5292969419521343	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Seed	170.0	895.0	-0.7851339206520951	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Seed		0.0	-0.29600321759811954	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Fruit	8.0	55.0	-0.07617388484668562	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
39	NIACIN	Seed	15.0	75.0	0.9613025895264885	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Seed	170.0	895.0	-0.9717427859253949	USDA's Ag Handbook 8 and sequelae)
9	OXALIC-ACID	Fruit	10.0	70.0	-0.302489070476127	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
25	P-COUMARIC-ACID	Plant				--
13	P-HYDROXY-BENZOIC-ACID	Shoot				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
13	PALMITIC-ACID	Seed	1210.0	6370.0	-0.5681672806968147	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Seed		0.0	-0.2984676110496168	USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Seed		50.0	3.483240123326536	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	PHENYLALANINE	Seed	2280.0	12000.0	0.054880800409018125	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Seed	950.0	5000.0	-0.09337683501314556	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Fruit	740.0	5070.0	0.5631351919565547	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
5	PHYLLOQUINONE	Seed		0.19	1.1805991838848995	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	PHYTOSTEROLS	Seed	1240.0	5000.0	0.7234909491444607	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
2	PIPECOLIC-ACID	Seed	4400.0	4915.0	1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
14	POTASSIUM	Seed	2500.0	13160.0	0.05188183413101716	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Fruit	390.0	2670.0	-1.3489137573982466	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	PROCYANIDIN-B-1	Testa				--
2	PROCYANIDIN-B-3	Testa				--
4	PROCYANIDIN-B-4	Testa				--
4	PUFA	Seed	3100.0	16315.0	-0.6817272942050584	USDA's Ag Handbook 8 and sequelae)
1	RAFFINOSE	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
15	RIBOFLAVIN	Seed	1.1	6.0	0.948854260802205	USDA's Ag Handbook 8 and sequelae)
7	SALICYLATES	Seed	7.0	40.0	-0.12556582429107654	--
5	SAPONINS	Seed		3500.0	-0.4560387379324689	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
3	SECOISOLARICRESINOL	Seed		0.0	-0.7071067811865476	H. Adlercreutz, pers. comm.
1	SERINE	Seed	2460.0	12950.0	0.4553026629092689	USDA's Ag Handbook 8 and sequelae)
9	SINAPIC-ACID	Plant				--
1	SODIUM	Seed	500.0	2630.0	3.459193259951902	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SODIUM	Fruit	435.0	2980.0	0.09863926677114537	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	STEARIC-ACID	Seed	170.0	895.0	-0.5459715794227932	USDA's Ag Handbook 8 and sequelae)
12	STIGMASTEROL	Seed	90.0	450.0	0.041544322107042314	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
14	SULFUR	Fruit	530.0	3630.0	1.5418986097664955	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
31	THIAMIN	Seed	1.7	9.0	0.5763820643107227	USDA's Ag Handbook 8 and sequelae)
31	THIAMIN	Fruit	0.8	5.4	0.008613517365409695	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	THREONINE	Seed	2080.0	10950.0	0.629151659198079	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Seed	560.0	2950.0	-0.1279192006318567	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Seed	1960.0	10315.0	0.5962293762937498	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Seed	2740.0	14420.0	0.2966260409599773	USDA's Ag Handbook 8 and sequelae)
3	WYERONE	Sprout Seedling	10.0	335.0		--
3	WYERONE-ACID	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
3	WYERONE-EPOXIDE	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.