

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vicia faba*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CARBOHYDRATES	Seed	117000.0	615790.0	0.36716743682576325	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Seed	56000.0	294735.0	0.5420833633079157	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Fruit	45000.0	308200.0	2.6636794749439527	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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.
0	ASH	Seed	11000.0	57900.0	0.3013744343294623	USDA's Ag Handbook 8 and sequelae)
8	GLUTAMIC-ACID	Seed	8550.0	45000.0	0.13867244364613796	USDA's Ag Handbook 8 and sequelae)
0	ASH	Fruit	8000.0	54800.0	-0.04826271800360426	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)
0	FAT	Seed	6000.0	31580.0	-1.2315482158520565	USDA's Ag Handbook 8 and sequelae)
14	ARGININE	Seed	4630.0	24370.0	-0.011449414813196206	USDA's Ag Handbook 8 and sequelae)
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.
2	LEUCINE	Seed	4320.0	22735.0	0.5411511014670063	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Seed	3660.0	19265.0	0.9707255897539737	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Seed	3100.0	16315.0	-0.6817272942050584	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Seed	2740.0	14420.0	0.2966260409599773	USDA's Ag Handbook 8 and sequelae)
0	PROLINE	Seed	2520.0	13265.0	0.37899724864420387	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Seed	2510.0	13210.0	0.34687775063862175	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
14	POTASSIUM	Seed	2500.0	13160.0	0.05188183413101716	USDA's Ag Handbook 8 and sequelae)
1	SERINE	Seed	2460.0	12950.0	0.4553026629092689	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Seed	2300.0	12100.0	0.16595355777482973	USDA's Ag Handbook 8 and sequelae)
3	ALANINE	Seed	2280.0	12000.0	0.3919500334549592	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Seed	2280.0	12000.0	0.054880800409018125	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Seed	2080.0	10950.0	0.629151659198079	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Seed	1960.0	10315.0	0.5962293762937498	USDA's Ag Handbook 8 and sequelae)
0	LINOLENIC-ACID	Seed	1890.0	9950.0	-0.4061598100789673	USDA's Ag Handbook 8 and sequelae)
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.
0	SFA	Seed	1380.0	7265.0	-0.5070539703645657	USDA's Ag Handbook 8 and sequelae)
7	HISTIDINE	Seed	1340.0	7050.0	0.2461530525605589	USDA's Ag Handbook 8 and sequelae)
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.)
13	PALMITIC-ACID	Seed	1210.0	6370.0	-0.5681672806968147	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Seed	1200.0	6315.0	-0.8637260686941344	USDA's Ag Handbook 8 and sequelae)
0	FAT	Fruit	1000.0	6850.0	-0.5889323407975273	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	PHOSPHORUS	Seed	950.0	5000.0	-0.09337683501314556	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.)
2	CYSTINE	Seed	770.0	4050.0	0.6261413683381543	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.
0	KILOCALORIES	Seed	720.0	3790.0	-0.8364738695682662	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Seed	560.0	2950.0	-0.1279192006318567	USDA's Ag Handbook 8 and sequelae)
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.
25	L-DOPA	Sprout Seedling	500.0	60000.0		--
1	SODIUM	Seed	500.0	2630.0	3.459193259951902	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.
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.
15	METHIONINE	Seed	430.0	2265.0	-0.5292969419521343	USDA's Ag Handbook 8 and sequelae)
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.
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.
65	MAGNESIUM	Seed	380.0	2000.0	-0.37379944602943677	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Seed	330.0	1735.0	0.7031485325200385	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
28	CALCIUM	Seed	220.0	31160.0	4.961258926447746	USDA's Ag Handbook 8 and sequelae)
0	PHYTATE	Seed	180.0	1100.0	-1.4388706809077916	--
18	OLEIC-ACID	Seed	170.0	895.0	-0.9717427859253949	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Seed	170.0	895.0	-0.7851339206520951	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed	170.0	895.0	-0.5459715794227932	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.
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.)
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.)
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.
6	IRON	Seed	19.0	100.0	-0.2360003199095645	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Seed	15.0	75.0	0.9613025895264885	USDA's Ag Handbook 8 and sequelae)
0	NAICIN	Seed	15.0	75.0		--
0	KAEMPFEROL-3-(6'-ACETYL)GALACTOSIDE-7-RHAMNOSIDE	Fruit	13.0	738.0		--
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.
3	WYERONE	Sprout Seedling	10.0	335.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETIN-3-GALACTOSIDE-7-RHAMNOSIDE	Fruit	9.0	1480.0		--
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.
0	KAEMPFEROL-3-RHAMNOSYL-(6'-ACETYL)GALACTOSIDE-7-RHAMNOSIDE	Plant	8.0	653.0		--
0	KAEMPFEROL-3-GALACTOSIDE-7-RHAMNOSIDE	Fruit	8.0	267.0		--
0	KAEMPFEROL-3-RHAMNOSYL-(6'-ACETYL)GALACTOSIDE-7-RHAMNOSIDE	Fruit	8.0	653.0		--
7	SALICYLATES	Seed	7.0	40.0	-0.12556582429107654	--
0	QUERCETIN-3-(6'-ACETYL)GALACTOSIDE-7-RHAMNOSIDE	Fruit	7.0	720.0		--
32	DAIDZEIN	Seed	5.0	18.0	-0.4448977050654623	--
0	KAEMPFEROL-3-(2'RHAMNOSYL)GALACTOSIDE-7-RHAMNOSIDE	Fruit	3.0	220.0		--
53	BETA-CAROTENE	Seed	2.1	11.0	0.2582933174000758	USDA's Ag Handbook 8 and sequelae)
0	QUERCETIN-TRIGLYCOSIDE	Fruit	2.0	120.0		--
0	MATIRE SINOL	Seed	2.0	8.0	1.4142135623730951	H. Adlercreutz, pers. comm.
31	THIAMIN	Seed	1.7	9.0	0.5763820643107227	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Seed	1.1	6.0	0.948854260802205	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.
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
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.
1	KAEMPFEROL-7-GLUCOSIDE	Fruit	0.03	1.3		--
4	BUTEIN	Fruit	0.02	7.0		--
0	GERALDONE	Fruit	0.02	6.0		--
0	7,4'-DIHYDROXYFLAVONE	Fruit	0.01	4.0		--
0	KAEMPFEROL-3-O-GLUCOSIDE	Fruit	0.01	1.0		--
0	7,3',4'-TRIHYDROXYFLAVONE	Fruit	0.01	22.0		--
0	3,5,7,4'-TETRAHYDROXYFLAVONE	Fruit	0.01	6.0		--
13	COUMESTROL	Seed	0.0	49.0	1.999475197646636	H. Adlercreutz, pers. comm.
81	GENISTEIN	Seed	0.0	19.9	-0.30348801020726357	--
0	GAMMA-HYDROXYCITRULLIN	Seed				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				--
4	FABATIN	Seed				--
0	D-HYDROXYLYSINE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	(+)-7-ISOJASMONIC-ACID	Plant				J.S. Glasby Dict.Pl's Containing 2ndary Metabolite. 1991.
102	CAFFEIC-ACID	Plant				--
7	FUMARIC-ACID	Root				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
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.
25	L-DOPA	Flower		110000.0		--
6	EPIGALLOCATECHIN	Testa				--
13	MEDICARPIN	Plant				--
0	FR	Plant				--
40	EPICATECHIN	Testa				--
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.
0	JASMONIC-ACID	Plant				--
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.
3	SECOISOLARICIREBINOL	Seed		0.0	-0.7071067811865476	H. Adlercreutz, pers. comm.
0	CONVICINE	Fruit		600.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	HEXOSAMINE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	WYERONE-EPOXIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
13	BETULIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	PHYLLOQUINONE	Seed		0.19	1.1805991838848995	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.)
23	CITRIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
9	HCN	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	BETA-CYANOALANINE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PHOSPHATIDES	Seed		12000.0	1.4692603788219227	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
61	FERULIC-ACID	Plant				--
6	MYRISTIC-ACID	Seed		0.0	-0.29600321759811954	USDA's Ag Handbook 8 and sequelae)
0	WAX	Leaf		1400.0	-1.002471427927351	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.
0	STIZOLAMINE	Seed				Chemical Constituents of Oriental Herbs (3 diff. books)
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.
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.



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	(-)-JASMONIC-ACID	Seed				--
3	GLYCERIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	WATER	Seed		810000.0	2.2348844953306775	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.
1	LEUCOCYANIDIN	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	GALLOCATECHIN-(4ALPHA->8)-EPIGALLOCATECHIN	Testa				--
4	PROCYANIDIN-B-4	Testa				--
13	MEDICARPIN	Leaf				--
0	WATER	Fruit		854000.0	0.3627365062567479	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	PALMITOLEIC-ACID	Seed		0.0	-0.2984676110496168	USDA's Ag Handbook 8 and sequelae)
0	GALLOCATECHIN-(4-ALPHA-8)-EPICATECHIN	Testa				--
0	DOPA-GLUCOSIDE	Shoot				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	5-HYDROXYURACIL	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	PROCYANIDIN-B-3	Testa				--
15	MALIC-ACID	Fruit				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
0	GIBBERELLIN-A-53	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	VICINE	Fruit		5000.0		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.
25	L-DOPA	Stem		34560.0		--
0	GALLOCATECHIN-(4-{ALPHA},8)-CATECHIN	Testa				--
1	DOPA	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	PROCYANIDIN-B-1	Testa				--
75	KAEMPFEROL	Shoot				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
13	P-HYDROXY-BENZOIC-ACID	Shoot				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FAVIN	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	DIVICINE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
9	SINAPIC-ACID	Plant				--
0	2,6-DIAMINOPURINE	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.