

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vicia faba*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
25	L-DOPA	Flower		110000.0		--
0	GALLOCATECHIN-(4-ALPHA-8)-EPICATECHIN	Testa				--
15	MALIC-ACID	Fruit				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		--
0	FR	Plant				--
0	VICINE	Fruit		5000.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	GALLOCATECHIN-(4-{ALPHA},8)-CATECHIN	Testa				--
13	P-HYDROXY-BENZOIC-ACID	Shoot				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		--
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	CONVICINE	Fruit		600.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
9	SINAPIC-ACID	Plant				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEXOSAMINE	Seed				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	Fruit	8.0	653.0		--
13	BETULIN	Root				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				--
0	KAEMPFEROL-3-RHAMNOSYL-(6'-ACETYL)GALACTOSIDE-7-RHAMNOSIDE	Plant	8.0	653.0		--
4	FABATIN	Seed				--
23	CITRIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	PROCYANIDIN-B-4	Testa				--
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.
61	FERULIC-ACID	Plant				--
0	KAEMPFEROL-3-GALACTOSIDE-7-RHAMNOSIDE	Fruit	8.0	267.0		--
6	EPIGALLOCATECHIN	Testa				--
2	PROCYANIDIN-B-3	Testa				--
13	MEDICARPIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	LEUCODELPHINIDIN	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	7,4'-DIHYDROXYFLAVONE	Fruit	0.01	4.0		--
0	KAEMPFEROL-3-O-GLUCOSIDE	Fruit	0.01	1.0		--
40	EPICATECHIN	Testa				--
1	PROCYANIDIN-B-1	Testa				--
0	JASMONIC-ACID	Plant				--
3	GLYCERIC-ACID	Fruit				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.
0	7,3',4'-TRIHYDROXYFLAVONE	Fruit	0.01	22.0		--
0	KAEMPFEROL-3-(6'-ACETYL)GALACTOSIDE-7-RHAMNOSIDE	Fruit	13.0	738.0		--
0	QUERCETIN-TRIGLYCOSIDE	Fruit	2.0	120.0		--
3	WYERONE-EPOXIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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.
0	NAICIN	Seed	15.0	75.0		--
0	KAEMPFEROL-3-(2'RHAMNOSYL)GALACTOSIDE-7-RHAMNOSIDE	Fruit	3.0	220.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETIN-3-GALACTOSIDE-7-RHAMNOSIDE	Fruit	9.0	1480.0		--
2	ASPARAGINE	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	GIBBERELLIN-A-53	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
3	WYERONE	Sprout Seedling	10.0	335.0		--
25	L-DOPA	Stem		34560.0		--
1	DOPA	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	3,5,7,4'-TETRAHYDROXYFLAVONE	Fruit	0.01	6.0		--
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.
75	KAEMPFEROL	Shoot				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	QUERCETIN-3-(6'-ACETYL)GALACTOSIDE-7-RHAMNOSIDE	Fruit	7.0	720.0		--
0	GERALDONE	Fruit	0.02	6.0		--
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	Sprout Seedling	500.0	60000.0		--
0	DIVICINE	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	STIZOLAMINE	Seed				Chemical Constituents of Oriental Herbs (3 diff. books)
0	2,6-DIAMINOPURINE	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	(-)-JASMONIC-ACID	Seed				--
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	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.
1	GALLOCATECHIN-(4ALPHA->8)-EPIGALLOCATECHIN	Testa				--
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.Pls Containing 2ndary Metabolite. 1991.
13	MEDICARPIN	Leaf				--
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.
0	PHYTATE	Seed	180.0	1100.0	-1.4388706809077916	--
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.
0	FAT	Seed	6000.0	31580.0	-1.2315482158520565	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
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.
18	OLEIC-ACID	Seed	170.0	895.0	-0.9717427859253949	USDA's Ag Handbook 8 and sequelae)
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.
27	LINOLEIC-ACID	Seed	1200.0	6315.0	-0.8637260686941344	USDA's Ag Handbook 8 and sequelae)
0	KILOCALORIES	Seed	720.0	3790.0	-0.8364738695682662	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Seed	170.0	895.0	-0.7851339206520951	USDA's Ag Handbook 8 and sequelae)
3	SECOISOLARICRESINOL	Seed		0.0	-0.7071067811865476	H. Adlercreutz, pers. comm.
4	PUFA	Seed	3100.0	16315.0	-0.6817272942050584	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.
13	PALMITIC-ACID	Seed	1210.0	6370.0	-0.5681672806968147	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed	170.0	895.0	-0.5459715794227932	USDA's Ag Handbook 8 and sequelae)
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.
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.
15	METHIONINE	Seed	430.0	2265.0	-0.5292969419521343	USDA's Ag Handbook 8 and sequelae)
0	SFA	Seed	1380.0	7265.0	-0.5070539703645657	USDA's Ag Handbook 8 and sequelae)

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.)
32	DAIDZEIN	Seed	5.0	18.0	-0.4448977050654623	--
0	LINOLENIC-ACID	Seed	1890.0	9950.0	-0.4061598100789673	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Seed	380.0	2000.0	-0.37379944602943677	USDA's Ag Handbook 8 and sequelae)
81	GENISTEIN	Seed	0.0	19.9	-0.30348801020726357	--
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.
2	PALMITOLEIC-ACID	Seed		0.0	-0.2984676110496168	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Seed		0.0	-0.29600321759811954	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)
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.
15	FIBER	Seed	22000.0	115780.0	-0.1500179488428386	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.
29	TRYPTOPHAN	Seed	560.0	2950.0	-0.1279192006318567	USDA's Ag Handbook 8 and sequelae)
7	SALICYLATES	Seed	7.0	40.0	-0.12556582429107654	--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PHOSPHORUS	Seed	950.0	5000.0	-0.09337683501314556	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.
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.
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.
14	ARGININE	Seed	4630.0	24370.0	-0.011449414813196206	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.
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	POTASSIUM	Seed	2500.0	13160.0	0.05188183413101716	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Seed	2280.0	12000.0	0.054880800409018125	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.
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	GLUTAMIC-ACID	Seed	8550.0	45000.0	0.13867244364613796	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Seed	2300.0	12100.0	0.16595355777482973	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	HISTIDINE	Seed	1340.0	7050.0	0.2461530525605589	USDA's Ag Handbook 8 and sequelae)
53	BETA-CAROTENE	Seed	2.1	11.0	0.2582933174000758	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Seed	2740.0	14420.0	0.2966260409599773	USDA's Ag Handbook 8 and sequelae)
0	ASH	Seed	11000.0	57900.0	0.3013744343294623	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Seed	2510.0	13210.0	0.34687775063862175	USDA's Ag Handbook 8 and sequelae)
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.
0	CARBOHYDRATES	Seed	117000.0	615790.0	0.36716743682576325	USDA's Ag Handbook 8 and sequelae)
0	PROLINE	Seed	2520.0	13265.0	0.37899724864420387	USDA's Ag Handbook 8 and sequelae)
3	ALANINE	Seed	2280.0	12000.0	0.3919500334549592	USDA's Ag Handbook 8 and sequelae)
1	SERINE	Seed	2460.0	12950.0	0.4553026629092689	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Seed	4320.0	22735.0	0.5411511014670063	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Seed	56000.0	294735.0	0.5420833633079157	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.
31	THIAMIN	Seed	1.7	9.0	0.5763820643107227	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Seed	1960.0	10315.0	0.5962293762937498	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Seed	770.0	4050.0	0.6261413683381543	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Seed	2080.0	10950.0	0.629151659198079	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
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.)
3	ASPARTIC-ACID	Seed	6310.0	33210.0	0.9428870560728585	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Seed	1.1	6.0	0.948854260802205	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Seed	15.0	75.0	0.9613025895264885	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Seed	3660.0	19265.0	0.9707255897539737	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.
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.)
5	PHYLLOQUINONE	Seed		0.19	1.1805991838848995	--
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.
0	MATIRE SINOL	Seed	2.0	8.0	1.4142135623730951	H. Adlercreutz, pers. comm.
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.
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.
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.
13	COUMESTROL	Seed	0.0	49.0	1.999475197646636	H. Adlercreutz, pers. comm.
0	WATER	Seed		810000.0	2.2348844953306775	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
1	SODIUM	Seed	500.0	2630.0	3.459193259951902	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.
28	CALCIUM	Seed	220.0	31160.0	4.961258926447746	USDA's Ag Handbook 8 and sequelae)