

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vigna radiata*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ADENOSINE-5'-MONOPHOSPHATE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ADENOSINE-DIPHOSPHATE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ADENOSINE-DIPHOSPHATE-D-RIBOSE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	ADENOSINE-TRIPHOSPHATE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	ALANINE	Sprout Seedling	990.0	10399.0	-0.8997564719824734	USDA's Ag Handbook 8 and sequelae)
3	ALANINE	Seed	10500.0	11545.0	0.2952261354048832	USDA's Ag Handbook 8 and sequelae)
15	ALPHA-LINOLENIC-ACID	Sprout Seedling	160.0	1681.0	-1.0	USDA's Ag Handbook 8 and sequelae)
15	ALPHA-LINOLENIC-ACID	Seed	270.0	297.0	-0.3250213852082402	USDA's Ag Handbook 8 and sequelae)
0	ARACHIDIC-ACID	Seed	117.0	135.0	-0.6426066149379663	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
14	ARGININE	Sprout Seedling	1970.0	20693.0	-0.6182818649110114	USDA's Ag Handbook 8 and sequelae)
14	ARGININE	Seed	16720.0	18383.0	-0.26496099366924114	USDA's Ag Handbook 8 and sequelae)
2	ARSENIC	Seed		0.09	0.18945418956322616	--
112	ASCORBIC-ACID	Sprout Seedling	113.0	1506.0	0.12020083478511438	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Seed	48.0	53.0	-0.30663815817527246	--
0	ASCORBIGEN	Seed	24.0	26.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ASH	Sprout Seedling	3750.0	53025.0	-0.2955159812067499	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ASH	Seed	32210.0	37609.0	-0.3089307552754851	USDA's Ag Handbook 8 and sequelae)
2	ASPARAGINE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	ASPARTIC-ACID	Sprout Seedling	4790.0	50315.0	-0.4166806780264269	USDA's Ag Handbook 8 and sequelae)
3	ASPARTIC-ACID	Seed	27560.0	30302.0	0.6847278409748893	USDA's Ag Handbook 8 and sequelae)
1	BEHENIC-ACID	Seed	312.0	360.0	-0.6444484945139936	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
53	BETA-CAROTENE	Sprout Seedling	0.1	1.4	0.05117933954512095	USDA's Ag Handbook 8 and sequelae)
53	BETA-CAROTENE	Seed	0.9	1.2	-0.35429746382896243	USDA's Ag Handbook 8 and sequelae)
47	BETA-SITOSTEROL	Sprout Seedling	50.0	500.0	-0.22568905807670636	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
47	BETA-SITOSTEROL	Seed	130.0	150.0	-0.5734134054352104	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
32	BIOCHANIN-A	Plant				Stitt, Paul. Why George should eat broccoli.
3	CADMIUM	Seed		0.165	-0.26456970735778806	--
28	CALCIUM	Sprout Seedling	110.0	1571.0	-0.4814496185209816	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Seed	1183.0	1602.0	-0.46730269971233074	USDA's Ag Handbook 8 and sequelae)
2	CAMPESTEROL	Sprout Seedling	10.0	100.0	-1.0	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	20.0	25.0	-0.5705099108545394	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
0	CARBOHYDRATES	Sprout Seedling	59300.0	622899.0	0.2524050923023795	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CARBOHYDRATES	Seed	626200.0	688510.0	0.656171408105382	USDA's Ag Handbook 8 and sequelae)
0	CEROTIC-ACID	Seed	819.0	945.0	-1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	CHLORINE	Seed	120.0	278.0	-0.1686206873836137	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
20	CHOLINE	Seed	1670.0	1856.0	0.17283513534505482	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
12	COPPER	Sprout Seedling	1.0	23.0	1.366529661191855	USDA's Ag Handbook 8 and sequelae)
12	COPPER	Seed	9.0	13.0	-0.1645816165812568	USDA's Ag Handbook 8 and sequelae)
13	COUMESTROL	Seed		0.0	-0.5230347066964424	H. Adlercreutz, pers. comm.
13	COUMESTROL	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	CYANIDIN-3-GLUCOSIDE	Seed				--
2	CYSTINE	Sprout Seedling	170.0	1786.0	-1.1912060022841449	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Seed	2100.0	2309.0	-0.5850415482256782	USDA's Ag Handbook 8 and sequelae)
0	CYTIDINE-5'-MONOPHOSPHATE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
32	DAIDZEIN	Seed	0.3	15.0	-0.46277160848299365	--
32	DAIDZEIN	Sprout Seedling				--
32	DAIDZEIN	Plant				--
0	DALBERGIOIDIN	Leaf Diffusate		3.0		--
0	DELPHINIDIN-3,5-DIGLUCOSIDE	Seed				--
0	DELPHINIDIN-3-(P-COUMARYL)-GLUCOSIDE	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DELPHINIDIN-3-O-BETA-GLUCOSIDE	Seed				--
0	DEMTHYLMEDICARPIN	Leaf Diffusate		1.0		--
0	FAT	Sprout Seedling	1350.0	23625.0	-0.5697281762066071	USDA's Ag Handbook 8 and sequelae)
0	FAT	Seed	10060.0	14234.0	-1.3229158025022332	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Sprout Seedling	7200.0	94500.0	-0.2729204592947363	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Seed	44950.0	66495.0	-0.5391807263159561	USDA's Ag Handbook 8 and sequelae)
0	FLAVADENINE-DINUCLEOTIDE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	FOLACIN	Sprout Seedling	0.539	7.105	1.413645675036839	USDA's Ag Handbook 8 and sequelae)
15	FOLACIN	Seed	5.8	7.3	1.9441202613457478	USDA's Ag Handbook 8 and sequelae)
23	FOLIC-ACID	Seed	1.4	1.6	-0.3528814296236972	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
16	FORMONONETIN	Plant				--
0	FUCOSE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	GALACTOSE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
81	GENISTEIN	Seed	2.0	21.8	-0.30346224755400253	--
81	GENISTEIN	Plant				Stitt, Paul. Why George should eat broccoli.
7	GLUCOSE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	GLUTAMIC-ACID	Sprout Seedling	1610.0	16912.0	-1.3307273280388923	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	GLUTAMIC-ACID	Seed	42640.0	46883.0	0.21811788021109724	USDA's Ag Handbook 8 and sequelae)
7	GLUTATHIONE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
12	GLYCINE	Sprout Seedling	930.0	6618.0	-1.1846966656046878	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Seed	9540.0	10489.0	-0.06696897779649544	USDA's Ag Handbook 8 and sequelae)
0	GUANOSINE-5'-MONOPHOSPHATE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	HEMICELLULOSE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	HISTIDINE	Sprout Seedling	700.0	7353.0	-0.9556870143562779	USDA's Ag Handbook 8 and sequelae)
7	HISTIDINE	Seed	6950.0	7642.0	0.4035349168214894	USDA's Ag Handbook 8 and sequelae)
0	HOMOGLUTATHIONE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	HYDROXYGENISTEIN	Leaf Diffusate				--
0	HYDROXYLAMINE	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	IMIDAZOLEACRYLIC-ACID	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	INOSITOL	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
12	IODINE	Seed	0.034	0.037	-0.27497982395204346	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

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6	IRON	Sprout Seedling	5.6	132.0	0.1837537773991908	USDA's Ag Handbook 8 and sequelae)
6	IRON	Seed	58.0	84.0	-0.3103412217683818	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Sprout Seedling	1320.0	13866.0	-0.2746975758881879	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Seed	10080.0	11083.0	0.07546930506301065	USDA's Ag Handbook 8 and sequelae)
22	ISOQUERCITRIN	Sprout Seedling				--
75	KAEMPFEROL	Sprout Seedling				--
0	KAEMPFEROL-7-O-RHAAMNOSIDE	Sprout Seedling				--
3	KIEVITONE	Leaf Diffusate		24.0	-1.0	--
0	KILOCALORIES	Sprout Seedling		3151.0	-0.529866161975077	USDA's Ag Handbook 8 and sequelae)
0	KILOCALORIES	Seed	3340.0	3815.0	-0.8169078831785788	USDA's Ag Handbook 8 and sequelae)
0	LEAD	Seed		1.57	-0.25007868841806435	--
2	LEUCINE	Sprout Seedling	1750.0	18382.0	-0.9050471491150544	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Seed	18470.0	20308.0	0.30884152903706713	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Sprout Seedling	420.0	4412.0	-0.9574803669005961	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Seed	3570.0	4890.0	-0.8759356101658239	--
0	LINOLENIC-ACID	Seed	1872.0	2160.0	-0.5421539064676	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	LYSINE	Sprout Seedling	1666.0	17437.0	-1.377095593970498	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Seed	16640.0	18296.0	0.8394693725634716	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Sprout Seedling	176.0	2560.0	1.2536866452701125	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Seed	1777.0	2203.0	-0.2935954770399224	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Sprout Seedling	1.4	25.0	0.5619514869490164	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Seed	9.6	12.2	-0.5147295792293065	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	MANNOSE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	MATIREBINOL	Seed		0.0	-0.7071067811865476	H. Adlercreutz, pers. comm.
1	MERCURY	Seed		0.036	-0.5272654042485163	--
15	METHIONINE	Sprout Seedling	340.0	3571.0	-0.6432645750200348	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Seed	2860.0	3145.0	-0.30206417164664323	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Sprout Seedling	220.0	2311.0	-1.305847565394658	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Seed	1610.0	1770.0	-0.7788039114002252	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Sprout Seedling		0.0		USDA's Ag Handbook 8 and sequelae)
56	NARINGENIN	Plant				Stitt, Paul. Why George should eat broccoli.
39	NIACIN	Sprout Seedling	6.8	85.0	-0.2472280725306782	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Seed	21.0	27.0	-0.47553477897955926	USDA's Ag Handbook 8 and sequelae)
3	NICKEL	Seed		3.456	-0.24795004115301575	--
18	OLEIC-ACID	Sprout Seedling	220.0	2311.0	-1.305847565394658	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Seed	832.0	1770.0	-0.9645497721718662	USDA's Ag Handbook 8 and sequelae)
25	P-COUMARIC-ACID	Plant				Stitt, Paul. Why George should eat broccoli.
13	PALMITIC-ACID	Sprout Seedling	320.0	3361.0	-0.29363830512965683	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Seed	2500.0	4215.0	-0.6126319230675944	--
11	PANTOTHENIC-ACID	Sprout Seedling	2.9	48.0	1.0	USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Seed	18.0	22.0	0.5505732860064096	USDA's Ag Handbook 8 and sequelae)
24	PECTIN	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	PHASEOLLIDIN	Leaf Diffusate		13.0	1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	PHENYLALANINE	Sprout Seedling	1170.0	12290.0	-0.9617538723657231	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Seed	14430.0	15865.0	0.516430426534178	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Sprout Seedling	455.0	6560.0	0.11559491863278125	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Seed	3260.0	4500.0	-0.22550634368040845	--
0	PHYTIN-PHOSPHORUS	Seed	1480.0	2322.0	0.815205227464338	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	PHYTOSTEROLS	Sprout Seedling	150.0	1576.0	0.20000826367279287	USDA's Ag Handbook 8 and sequelae)
2	PHYTOSTEROLS	Seed	230.0	253.0	-0.5815625959422273	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Sprout Seedling	1256.0	18092.0	0.787634347459963	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Seed	12038.0	14170.0	0.14070477117081934	USDA's Ag Handbook 8 and sequelae)
0	PROLINE	Seed	10950.0	12090.0	0.14815765434667028	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Seed	234890.0	266541.0	0.29128313225444913	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Sprout Seedling	25740.0	368130.0	0.5226190900004133	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Sprout Seedling	580.0	6092.0	-0.7620713354824633	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Seed	3840.0	4222.0	-0.7738443631639267	USDA's Ag Handbook 8 and sequelae)
43	PYRIDOXINE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
176	QUERCETIN	Sprout Seedling				--
1	QUINIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	RAFFINOSE	Seed		8000.0	0.39721461223664184	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.



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0	RHAMNOSE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	RIBOFLAVIN	Sprout Seedling	1.0	15.0	0.21733051397161018	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Seed	2.1	2.8	-0.2775591494321886	USDA's Ag Handbook 8 and sequelae)
0	RIBOSE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
10	ROBININ	Plant				Stitt, Paul. Why George should eat broccoli.
10	ROBININ	Sprout Seedling				--
87	RUTIN	Sprout Seedling				--
7	SALICYLATES	Seed		0.0	-0.3401776874861938	--
5	SAPONINS	Seed	500.0	6000.0	-0.42041667504648683	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
3	SECOISOLARICIRE SINOL	Seed		8.0	1.4142135623730951	H. Adlercreutz, pers. comm.
1	SERINE	Sprout Seedling	330.0	3466.0	-1.2644569265786192	USDA's Ag Handbook 8 and sequelae)
1	SERINE	Seed	11760.0	12930.0	0.45146965269624684	USDA's Ag Handbook 8 and sequelae)
0	SFA	Sprout Seedling	460.0	4831.0	0.002795258425225189	USDA's Ag Handbook 8 and sequelae)
0	SFA	Seed	3480.0	3826.0	-0.5408445165979677	USDA's Ag Handbook 8 and sequelae)
14	SHIKIMIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	SODIUM	Sprout Seedling	45.0	782.0	-0.03780760366122745	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Seed	129.0	311.0	-0.22202937181087867	--
1	STACHYOSE	Seed		25000.0	0.2038749490758906	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

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8	STEARIC-ACID	Sprout Seedling	80.0	840.0	0.5080005080007616	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed	710.0	1170.0	-0.5400050132406323	--
12	STIGMASTEROL	Sprout Seedling	90.0	900.0	0.8603471050947832	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
12	STIGMASTEROL	Seed	80.0	230.0	-0.23799593036853528	--
14	SUCROSE	Seed		18000.0	-0.44182122531441115	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
14	SULFUR	Seed	1880.0	2378.0	-0.08871295398445395	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
31	THIAMIN	Sprout Seedling	0.7	10.3	-0.45029259815110706	USDA's Ag Handbook 8 and sequelae)
31	THIAMIN	Seed	5.4	7.7	0.26622392167809805	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Sprout Seedling	780.0	8192.0	-0.986620334205834	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Seed	7820.0	8598.0	0.10302216510907004	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Sprout Seedling	370.0	3886.0	-1.0	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Seed	2600.0	2859.0	-0.1589532693245532	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Sprout Seedling	520.0	5462.0	-1.0269704318619173	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Seed	7140.0	7850.0	0.02520639195119663	USDA's Ag Handbook 8 and sequelae)
0	URIDINE-5'-MONOPHOSPHATE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	URIDINE-DIPHOSPHATE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

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0	URIDINE-DIPHOSPHATE-GALACTURONIC-ACID	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	URIDINE-DIPHOSPHATE-GLUCURONIC-ACID	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	URIDINE-DIPHOSPHATE-N-ACETYL-GLUCOSAMINE	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	UROCANIC-ACID	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	VALINE	Sprout Seedling	1300.0	13655.0	-0.6681497464396949	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Seed	12370.0	13600.0	0.19563498523837364	USDA's Ag Handbook 8 and sequelae)
1	VERBASCOSE	Seed		38000.0	0.8069899082183902	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	VIT-B-6	Sprout Seedling	0.8	11.0	0.9999999999999998	USDA's Ag Handbook 8 and sequelae)
0	VIT-B-6	Seed	3.7	4.3	-0.2151951120717711	USDA's Ag Handbook 8 and sequelae)
0	VIT-B12	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	WATER	Sprout Seedling		888140.0	0.7637136211608647	USDA's Ag Handbook 8 and sequelae)
0	WATER	Seed	86100.0	94890.0	-0.5092908704080367	USDA's Ag Handbook 8 and sequelae)
3	XYLOSE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
77	ZINC	Sprout Seedling	3.5	48.0	0.4949133977324324	USDA's Ag Handbook 8 and sequelae)
77	ZINC	Seed	26.0	31.0	-0.40121173892745016	USDA's Ag Handbook 8 and sequelae)