

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Lens culinaris*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-GAMMA-HYDROXY-L-HOMOARGININE	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
3	ALANINE	Sprout Seedling	3560.0	11865.0	-0.4950179055736652	USDA's Ag Handbook 8 and sequelae)
3	ALANINE	Seed	11720.0	13200.0	0.6470460283123016	USDA's Ag Handbook 8 and sequelae)
1	AMYLASE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
14	ARGININE	Sprout Seedling	6110.0	20365.0	-0.7923560723709357	USDA's Ag Handbook 8 and sequelae)
14	ARGININE	Seed	21680.0	24400.0	-0.010179104580077558	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Sprout Seedling	148.0	605.0	-0.6011185419891155	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Seed	42.0	70.0	-0.296432228483346	--
0	ASH	Sprout Seedling	9250.0	35833.0	-0.7500410479276718	USDA's Ag Handbook 8 and sequelae)
0	ASH	Seed	21000.0	30875.0	-0.5114735154548612	--
0	ASPARAGIN	Sprout Seedling				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	ASPARTIC-ACID	Sprout Seedling	14330.0	47765.0	-0.962036911884795	USDA's Ag Handbook 8 and sequelae)
3	ASPARTIC-ACID	Seed	31020.0	34900.0	1.0929176865802754	USDA's Ag Handbook 8 and sequelae)
53	BETA-CAROTENE	Sprout Seedling	0.3	1.0	-0.29001625742234954	USDA's Ag Handbook 8 and sequelae)
53	BETA-CAROTENE	Seed		16.0	0.5708396343536667	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	BIOTIN	Seed		132.0	0.06180557326437285	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

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28	CALCIUM	Sprout Seedling	244.0	853.0	-0.5652510309083912	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Seed	386.0	604.0	-0.6505933317885116	--
0	CARBOHYDRATES	Sprout Seedling		221400.0	-1.9565878672727264	USDA's Ag Handbook 8 and sequelae)
0	CARBOHYDRATES	Seed	597000.0	642800.0	0.474510633529043	--
7	CHLORINE	Seed		636.0	0.5661739559528457	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
20	CHOLINE	Seed		2230.0	0.5248475217814931	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
12	COPPER	Sprout Seedling	3.3	12.0	-0.36791183185934606	USDA's Ag Handbook 8 and sequelae)
12	COPPER	Seed	8.0	9.0	-0.5274011339177476	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Sprout Seedling		3340.0	-0.06452667936901335	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Seed	3680.0	4145.0	0.6922311885986735	USDA's Ag Handbook 8 and sequelae)
32	DAIDZEIN	Seed		5.2	-0.5211596929802628	Kaufman,PB,Duke,JA,Briemann,H,Boik,J and Hoyt,JE. 1997. A Comparative Survey of Leguminous Plants as Sources of the Isoflavones Genistein and Daidzein: Implications For Human Nutrition and Health. Journal of Alternative & Complementary Medicine 3(1):7-12
29	ESCULIN	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FAT	Sprout Seedling	5200.0	19335.0	-0.7135388246680436	USDA's Ag Handbook 8 and sequelae)
0	FAT	Seed	7000.0	11800.0	-1.3357365511420654	--
61	FERULIC-ACID	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
15	FIBER	Sprout Seedling	21900.0	106333.0	-0.10119049759020228	USDA's Ag Handbook 8 and sequelae)

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15	FIBER	Seed	49000.0	61675.0	-0.5772402695323592	USDA's Ag Handbook 8 and sequelae)
15	FOLACIN	Seed		1.1	-0.620463913195451	--
15	FOLACIN	Sprout Seedling	1.0	4.0	-0.7415277231576215	USDA's Ag Handbook 8 and sequelae)
23	FOLIC-ACID	Seed		1070.0	2.8284111586845944	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	GADOLEIC-ACID	Seed	40.0	45.0	-0.7262983366947532	USDA's Ag Handbook 8 and sequelae)
81	GENISTEIN	Seed		25.0	-0.30341885782219463	Kaufman,PB,Duke,JA,Brielm ann,H,Boik,J and Hoyt,JE. 1997. A Comparative Survey of Leguminous Plants as Sources of the Isoflavones Genistein and Daidzein: Implications For Human Nutrition and Health. Journal of Alternative & Complementary Medicine 3(1):7-12
8	GLUTAMIC-ACID	Sprout Seedling	12580.0	41935.0	0.25078727322053307	USDA's Ag Handbook 8 and sequelae)
8	GLUTAMIC-ACID	Seed	43500.0	49000.0	0.30743598387972115	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Sprout Seedling	3190.0	10635.0	-0.07650916912078726	USDA's Ag Handbook 8 and sequelae)
0	HERMICELLULOSE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	HISTIDINE	Sprout Seedling	2570.0	8565.0	-0.42492819593571496	USDA's Ag Handbook 8 and sequelae)
7	HISTIDINE	Seed	7900.0	8900.0	0.7379713783759667	USDA's Ag Handbook 8 and sequelae)
8	INOSITOL	Seed		1300.0	-0.4346361445296853	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
12	IODINE	Seed	0.025	0.03	-0.2756317515559883	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	IRON	Seed	22.0	106.0	-0.208122481712508	--

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6	IRON	Sprout Seedling	30.0	116.0	-0.1312526981422798	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Sprout Seedling	3260.0	10865.0	-1.064069511962672	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Seed	12120.0	13650.0	0.40302242203179	USDA's Ag Handbook 8 and sequelae)
0	KAEMPFEROL-3-O-ALPHA-L-RHAMNOSIDE-BETA-D-GLUCOSYL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	KAEMPFEROL-3-O-ALPHA-L-RHAMNOSIDE-BETA-D-GLUCOSYL...PL	Plant				--
0	KAEMPFEROL-3-RUTINOSYL-7-O-ALPHA-L-RHAMNOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	KAEMPFEROL-3-RUTINOSYL-7-O-BETA-GLUCOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	KAEMPFEROL-7-O-BETA-D-GLUCOSIDE-O-ALPHA-L-RHAMNOSYL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	KAEMPFEROL-7-O-BETA-D-GLUCOSIDE-O-ALPHA-L-RHAMNOSYL...PL	Plant				--
0	KILOCALORIES	Sprout Seedling	1060.0	3533.0	1.63725240199151	USDA's Ag Handbook 8 and sequelae)
0	KILOCALORIES	Seed	3380.0	3805.0	-0.8247342777344537	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Sprout Seedling	6280.0	20935.0	-0.4885753806055494	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Seed	20340.0	22900.0	0.5569447065147772	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Seed	3510.0	3950.0	-0.8839896234874998	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Sprout Seedling	1810.0	6035.0	-0.42260520553770015	USDA's Ag Handbook 8 and sequelae)
0	LINOLENIC-ACID	Sprout Seedling	380.0	1265.0		USDA's Ag Handbook 8 and sequelae)
0	LINOLENIC-ACID	Seed	960.0	1080.0	-0.5610080302287969	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Sprout Seedling	7120.0	23735.0	0.4097902073122836	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Seed	19570.0	22035.0	1.3459368607732625	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Sprout Seedling	345.0	1323.0	-1.3001386000145796	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Seed	765.0	1280.0	-0.6582667252040689	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	MANGANESE	Sprout Seedling	5.0	18.0	-1.404878717372541	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Sprout Seedling	1050.0	3500.0	-0.7690821640735394	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Sprout Seedling	1040.0	3465.0	0.18274126285569006	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Seed	1630.0	1835.0	-0.7783336821415149	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Seed	30.0	34.0	-0.29555812819357036	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Sprout Seedling	10.0	40.0	-0.6887067734783175	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Seed	17.0	30.0	-0.3857324434479313	--
18	OLEIC-ACID	Sprout Seedling	1040.0	3465.0	0.18274126285569006	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Seed	1570.0	1770.0	-0.9645497721718662	USDA's Ag Handbook 8 and sequelae)
9	OXALIC-ACID	Seed		212.0	-0.6318699668329124	Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
25	P-COUMARIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
13	PALMITIC-ACID	Sprout Seedling	520.0	1733.0	-1.0512344394419888	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Seed	1160.0	1300.0	-0.6727778314252848	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Seed	20.0	23.0	-0.2979155059805955	USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Sprout Seedling	5.0	20.0	-1.0	USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Seed	16.0	22.0	0.5505732860064096	--
0	PARAGALACTOARABAN	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	PHENYLALANINE	Sprout Seedling	4420.0	14735.0	-0.41704962915650534	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Seed	13830.0	15575.0	0.48179927735531736	USDA's Ag Handbook 8 and sequelae)

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0	PHOSPHATASE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	PHOSPHORUS	Sprout Seedling	1610.0	6165.0	-0.07269371171752223	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Seed	2420.0	5275.0	-0.02070560524615097	--
0	PHYTASE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PHYTATE	Seed	4340.0	4940.0	-0.9512757332961499	--
14	POTASSIUM	Sprout Seedling	3000.0	11495.0	-0.5410001493676354	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Seed	6730.0	10440.0	-0.1873244913623115	--
0	PROLINE	Sprout Seedling	3560.0	11865.0	-1.0	USDA's Ag Handbook 8 and sequelae)
0	PROLINE	Seed	11720.0	13200.0	0.36622739874689353	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Sprout Seedling	83500.0	316667.0	0.1613807879848497	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Seed	251000.0	349000.0	1.0247986409597696	--
4	PUFA	Sprout Seedling	2190.0	7300.0	-0.6506791473733823	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Seed	4470.0	5035.0	-0.767651426997255	USDA's Ag Handbook 8 and sequelae)
43	PYRIDOXINE	Seed		4.9	-0.23544080467400555	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	RIBOFLAVIN	Sprout Seedling	1.0	5.0	-0.9767931891691071	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Seed	2.0	3.0	-0.20090831129253928	--
7	SALICYLATES	Seed		0.0	-0.3401776874861938	--
5	SAPONINS	Seed	1100.0	5100.0	-0.43324061768544037	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
1	SERINE	Sprout Seedling	4450.0	14835.0	0.08372002158534232	USDA's Ag Handbook 8 and sequelae)

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1	SERINE	Seed	12930.0	14560.0	0.7638599850575438	USDA's Ag Handbook 8 and sequelae)
0	SFA	Sprout Seedling	570.0	1900.0	-1.2261401082251409	USDA's Ag Handbook 8 and sequelae)
0	SFA	Seed	1350.0	1520.0	-0.5635025566137354	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Sprout Seedling	56.0	545.0	-0.5032830357501057	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Seed	76.0	360.0	-0.14424588368824984	--
0	SOYASAPONIN-I	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
1	STACHYOSE	Seed				--
5	STARCH	Seed		285000.0	-0.10188546283681814	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	STEARIC-ACID	Sprout Seedling	60.0	200.0	-1.397001397002096	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed	140.0	160.0	-0.5619185835823867	USDA's Ag Handbook 8 and sequelae)
14	SULFUR	Seed		1220.0	-0.7437145216796257	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
31	THIAMIN	Sprout Seedling	2.0	8.0	-0.63198961144015	USDA's Ag Handbook 8 and sequelae)
31	THIAMIN	Seed	2.6	6.0	-0.13936749561071934	--
4	THREONINE	Sprout Seedling	3280.0	10935.0	-0.38414936877248523	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Seed	10060.0	11325.0	0.7130371014954339	USDA's Ag Handbook 8 and sequelae)
93	TOCOPHEROL	Seed		20.0	-0.40269267228771793	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
29	TRYPTOPHAN	Seed	2510.0	2826.0	-0.17020738214717943	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

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8	TYROSINE	Sprout Seedling	2520.0	8400.0	-0.3285354483410115	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Seed	7500.0	8445.0	0.16303952610284742	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Sprout Seedling	3990.0	13300.0	-0.7453610615393341	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Seed	13920.0	15675.0	0.4511916201436512	USDA's Ag Handbook 8 and sequelae)
0	VARIABILIN	Seed				--
0	VIT-B-6	Sprout Seedling	2.0	6.6	-1.0000000000000007	USDA's Ag Handbook 8 and sequelae)
0	VIT-B-6	Seed	5.0	6.0	0.4816271555892012	USDA's Ag Handbook 8 and sequelae)
0	VIT-K	Seed		2.5		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	WATER	Sprout Seedling	650000.0	700000.0	-1.0835340413873007	USDA's Ag Handbook 8 and sequelae)
0	WATER	Seed	111900.0	124000.0	-0.3975836576762137	--
3	WYERONE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
77	ZINC	Sprout Seedling	14.0	54.0	0.8998425413316947	USDA's Ag Handbook 8 and sequelae)
77	ZINC	Seed	37.0	42.0	-0.08891955712598718	USDA's Ag Handbook 8 and sequelae)