

**Dr. Duke's Phytochemical and Ethnobotanical Databases**

**Chemicals found in Cocos nucifera**

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ALANINE	Endosperm				Jim Duke's personal files.
0	N-OCTACOSANE	Seed Oil				Jim Duke's personal files.
25	P-COUMARIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
32	ALPHA-TOCOPHEROL	Seed Oil				Jim Duke's personal files.
2	LEUCINE	Leaf				Jim Duke's personal files.
0	N-DOTRIACONTANE	Seed Oil				Jim Duke's personal files.
28	VANILLIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	QUINIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BUTANE-2,3-DIOL	Endosperm				Jim Duke's personal files.
0	TANTALUM	Plant				--
0	2,3,5-TRIMETHYLPYRAZINE	Endosperm				Jim Duke's personal files.
12	GLYCINE	Endosperm				Jim Duke's personal files.
0	ACETOIN	Endosperm				Jim Duke's personal files.
0	N-NONADECANE	Seed Oil				Jim Duke's personal files.
61	FERULIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	THREONINE	Leaf				Jim Duke's personal files.
7	LAURIC-ACID	Endosperm				Jim Duke's personal files.
15	MALIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	DELTA-DODECALACTONE	Endosperm				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	VANILLIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	ASPARTIC-ACID	Leaf				Jim Duke's personal files.
6	SYRINGIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-(3-METHYL-BUT-2-ENYL-AMINO)-PURIN-6-ONE	Juice				Jim Duke's personal files.
8	GLUTAMIC-ACID	Leaf				Jim Duke's personal files.
7	SUCCINIC-ACID	Root				Jim Duke's personal files.
14	SHIKIMIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	N-NONACOSANE	Seed Oil				Jim Duke's personal files.
0	NITROGEN	Hull Husk		1100.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	N-TETRACOSANE	Seed Oil				Jim Duke's personal files.
4	LACTOSE	Root				Jim Duke's personal files.
0	MAGNESIUM-OXIDE	Leaf		5700.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	N-DOCASANE	Seed Oil				Jim Duke's personal files.
0	POTASSIUM-OXIDE-(K2O)	Leaf		52300.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	SCYLLITOL	Juice		500.0		--
3	ASPARTIC-ACID	Endosperm				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	SYRINGALDEHYDE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	HYDROXYPROLINE	Endosperm				Jim Duke's personal files.
8	GLUTAMIC-ACID	Endosperm				Jim Duke's personal files.
6	MYRISTIC-ACID	Seed Oil				Jim Duke's personal files.
10	SQUALENE	Seed Oil				Jim Duke's personal files.
7	HISTIDINE	Leaf				Jim Duke's personal files.
3	DECANOIC-ACID	Endosperm				Jim Duke's personal files.
0	URONIC-ANHYDRIDES	Hull Husk		35000.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
23	ALPHA-TERPINEOL	Fruit				Jim Duke's personal files.
63	MENTHOL	Fruit				Jim Duke's personal files.
14	ARGININE	Leaf				Jim Duke's personal files.
0	PROLINE	Leaf				Jim Duke's personal files.
7	GLUCOSE	Root				Jim Duke's personal files.
3	GOLD	Plant				--
15	METHIONINE	Leaf				Jim Duke's personal files.
0	D-GALACTURONIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	INOSITOL	Resin, Exudate, Sap		690.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	N-HEXACOSANE	Seed Oil				Jim Duke's personal files.
1	DELTA-DECALACTONE	Endosperm				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	UNDECANOIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
35	TANNIN	Plant				Jim Duke's personal files.
60	LIMONENE	Fruit				Jim Duke's personal files.
14	ARGININE	Endosperm				Jim Duke's personal files.
14	SUCROSE	Resin, Exudate, Sap		134000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HYDROXYPHASEIC-ACID	Resin, Exudate, Sap				Jim Duke's personal files.
0	PHOSPHORUS-OXIDE-(P2O5)	Leaf		1700.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	GLUCOSE	Juice		19700.0		Jim Duke's personal files.
7	GLUCOSE	Resin, Exudate, Sap		2400.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	SCYLLITOL	Endosperm		500.0		--
15	METHIONINE	Endosperm				Jim Duke's personal files.
0	D-GALACTOSE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEPTAN-2-OL	Fruit				Jim Duke's personal files.
0	24-METHYLENE-CYCLOARTENOL	Seed Oil				Jim Duke's personal files.
14	SUCROSE	Juice		4300.0		Jim Duke's personal files.
9	BETA-AMYRIN	Seed Oil				Jim Duke's personal files.
7	SUCCINIC-ACID	Seed				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
2	HEXANOIC-ACID	Seed	585.0	7190.0		--
0	DIHYDRO-PHASEIC-ACID	Resin, Exudate, Sap				Jim Duke's personal files.
8	GENTISIC-ACID	Leaf				Jim Duke's personal files.
14	GAMMA-TOCOPHEROL	Oil				--
3	VALINE	Leaf				Jim Duke's personal files.
4	LYSINE	Leaf				Jim Duke's personal files.
0	GALACTITOL	Endosperm				Jim Duke's personal files.
0	D-SORBITOL	Endosperm		15000.0		--
0	N-HEPTADECANE	Seed Oil				Jim Duke's personal files.
7	CYCLOARTENOL	Seed Oil				Jim Duke's personal files.
2	TRIDECANOIC-ACID	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
12	STIGMASTEROL	Seed Oil				Jim Duke's personal files.
10	ALPHA-AMYRIN	Seed Oil				Jim Duke's personal files.
0	N-PENTACOSANE	Seed Oil				Jim Duke's personal files.
3	VALINE	Endosperm				Jim Duke's personal files.
4	LYSINE	Endosperm				Jim Duke's personal files.
0	METHOXYL	Hull Husk		56000.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	FRUCTOSE	Root				Jim Duke's personal files.
0	N-HEPTACOSANE	Seed Oil				Jim Duke's personal files.
1	CAPROIC-ACID	Endosperm				Jim Duke's personal files.
47	BETA-SITOSTEROL	Seed Oil				Jim Duke's personal files.
5	ALUMINUM	Leaf				Jim Duke's personal files.
5	OCTANOIC-ACID	Endosperm				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	PECTIN	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
22	GABA	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ACETOVANILLONE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	TYROSINE	Leaf				Jim Duke's personal files.
0	LINAMARASE	Endosperm				Jim Duke's personal files.
0	MESO-INOSITOL	Endosperm		100.0		--
23	CITRIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	FRUCTOSE	Juice		22200.0		Jim Duke's personal files.
2	CAMPESTEROL	Seed Oil				Jim Duke's personal files.
1	SERINE	Leaf				Jim Duke's personal files.
3	N-HENTRIACONTANE	Seed Oil				Jim Duke's personal files.
7	PHENYLALANINE	Leaf				Jim Duke's personal files.
10	SQUALENE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	GAMMA-NONALACTONE	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	DELTA-OCTALACTONE	Endosperm				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	FRUCTOSE	Resin, Exudate, Sap		2100.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ACETOSYRINGONE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-TRICOSANE	Seed Oil				Jim Duke's personal files.
3	LIGUSTRAZINE	Endosperm				Jim Duke's personal files.
0	EHTYL-LACTATE	Fruit				Jim Duke's personal files.
0	BUTYROIN	Fruit				Jim Duke's personal files.
0	THORIUM	Plant				--
5	OCTANOIC-ACID	Seed	4670.0	57520.0		--
1	SERINE	Endosperm				Jim Duke's personal files.
0	N-HENEICOSANE	Seed Oil				Jim Duke's personal files.
3	ALANINE	Leaf				Jim Duke's personal files.
11	SORBITOL	Endosperm				Jim Duke's personal files.
0	FUCOSTEROL	Pollen Or Spore				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	N-OCTADECANE	Seed Oil				Jim Duke's personal files.
13	P-HYDROXY-BENZOIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	1,3-DIPHENYLUREA?	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-TRIACONTANE	Seed Oil				Jim Duke's personal files.
3	ISOLEUCINE	Endosperm				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	MANNAN	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-EICOSANE	Seed Oil				Jim Duke's personal files.
0	VIT-E	Seed		2.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	RAFFINOSE	Resin, Exudate, Sap		900.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	L-RHAMNOSE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BUTANE-2,3-DIONE	Endosperm				Jim Duke's personal files.
1	RAFFINOSE	Root				Jim Duke's personal files.
12	GLYCINE	Leaf				Jim Duke's personal files.
0	WATER	Leaf		84500.0	-3.6077208272203345	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PROLINE	Seed	1380.0	2605.0	-1.7152581345146969	USDA's Ag Handbook 8 and sequelae)
3	ALANINE	Seed	1700.0	3205.0	-1.4776910288536462	USDA's Ag Handbook 8 and sequelae)
3	ASPARTIC-ACID	Seed	3250.0	6130.0	-1.4611540528862226	USDA's Ag Handbook 8 and sequelae)
1	SERINE	Seed	1720.0	3245.0	-1.4046655429596806	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Seed	32000.0	77000.0	-1.3947822218671768	--
8	TYROSINE	Seed	1030.0	1945.0	-1.3427005948815731	USDA's Ag Handbook 8 and sequelae)
31	THIAMIN	Seed	0.3	1.0	-1.3322834288131225	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	CYSTINE	Seed	660.0	1245.0	-1.3252475351434945	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	THREONINE	Seed	1210.0	2285.0	-1.3091612941527981	USDA's Ag Handbook 8 and sequelae)
0	PHYTATE	Seed	2300.0	2370.0	-1.2776088102133165	--
4	LYSINE	Seed	1470.0	2775.0	-1.2629328431370264	USDA's Ag Handbook 8 and sequelae)
7	HISTIDINE	Seed	770.0	1455.0	-1.2412650733514448	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Seed	2470.0	4660.0	-1.1889665424024416	USDA's Ag Handbook 8 and sequelae)
8	GLUTAMIC-ACID	Seed	7610.0	14355.0	-1.154267228968401	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Seed	1580.0	2980.0	-1.1526395672471974	USDA's Ag Handbook 8 and sequelae)
1	CELLULOSE	Hull Husk		266000.0	-1.1355499479153377	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
5	PHYLLOQUINONE	Oil		0.005	-1.0944932984058764	--
15	RIBOFLAVIN	Seed	0.2	0.7	-1.0823929498985099	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	ISOLEUCINE	Seed	1310.0	2470.0	-1.0235626374582578	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Seed	2020.0	3810.0	-1.0100996922183336	USDA's Ag Handbook 8 and sequelae)
0	CALCIUM-OXIDE	Leaf		2700.0	-1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PENTOSANS	Hull Husk		277000.0	-1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	GALACTOMANNAN	Seed		16000.0	-1.0	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	WATER	Hull Husk		80000.0	-1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	PHENYLALANINE	Seed	1690.0	3190.0	-0.9971896280936104	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
39	NIACIN	Seed	5.0	10.0	-0.9844146803254511	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	BORON	Seed	3.0	5.2	-0.8970628189505873	--
29	TRYPTOPHAN	Seed	390.0	735.0	-0.8833088946354036	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Seed	300.0	770.0	-0.8597643812861001	Furr, A.K., et al. 1979
2	MOLYBDENUM	Seed		0.03	-0.8557155877274645	Furr, A.K., et al. 1979
15	METHIONINE	Seed	620.0	1170.0	-0.8120468095481715	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Seed	830.0	2400.0	-0.7804502800829126	--
0	ASH	Seed	9000.0	22000.0	-0.7784124813877332	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CARBOHYDRATES	Seed	94000.0	331000.0	-0.7646455579586512	--
27	LINOLEIC-ACID	Seed	584.0	18694.0	-0.7576615677270858	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	STRONTIUM	Seed		2.8	-0.751622808700869	Furr, A.K., et al. 1979
32	ALPHA-TOCOPHEROL	Seed	7.0	13.0	-0.6896654823517182	--
28	CALCIUM	Seed	71.0	476.0	-0.6741015491289437	--
32	ALPHA-TOCOPHEROL	Oil		18.0	-0.6737505559360731	--
14	SULFUR	Seed	440.0	1370.0	-0.6588697590248107	--
24	CHROMIUM	Seed		0.2	-0.6533762381344975	Furr, A.K., et al. 1979
0	SCANDIUM	Seed		0.002	-0.6367962615099008	Furr, A.K., et al. 1979
2	ARSENIC	Seed		0.02	-0.6237689826185465	Furr, A.K., et al. 1979
14	ARGININE	Seed	5460.0	10300.0	-0.6072249141458423	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Seed	3660.0	26880.0	-0.601249593588963	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Seed	14250.0	26880.0	-0.5971507316122795	USDA's Ag Handbook 8 and sequelae)
16	VANADIUM	Seed		0.004	-0.5871182787387549	Furr, A.K., et al. 1979
4	SILICON	Seed		370.0	-0.5747786449558462	Furr, A.K., et al. 1979

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Seed	9.0	25.0	-0.5715529290009757	--
3	NICKEL	Seed		2.1	-0.5073146937660691	Furr, A.K., et al. 1979
0	LEAD	Seed		0.7	-0.5037706810794316	Furr, A.K., et al. 1979
18	OLEIC-ACID	Seed	2920.0	58958.0	-0.4944308344155307	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	IRON	Seed	20.0	50.0	-0.4683156382183686	--
0	TITANIUM	Seed		5.6	-0.45186158232568946	Furr, A.K., et al. 1979
4	TIN	Seed		1.5	-0.442152019568875	Furr, A.K., et al. 1979
47	BETA-SITOSTEROL	Fruit		270.0	-0.43949317582642705	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
2	PHYTOSTEROLS	Seed	470.0	885.0	-0.40781205023024353	USDA's Ag Handbook 8 and sequelae)
2	CAMPESTEROL	Fruit		30.0	-0.4046460894399287	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
0	BROMINE	Seed		4.0	-0.36819583850065973	Furr, A.K., et al. 1979
5	ALUMINUM	Seed		7.2	-0.3516653417103102	--
1	CAPROIC-ACID	Seed	117.0	3600.0	-0.34501465200156417	--
0	CESIUM	Seed		0.1	-0.3427209689454117	Furr, A.K., et al. 1979
3	CADMIUM	Seed		0.03	-0.33359741952043553	Furr, A.K., et al. 1979
0	SAMARIUM	Seed		0.04	-0.3314596066672648	Furr, A.K., et al. 1979
7	SALICYLATES	Seed	2.0	3.0	-0.32408179774656004	--
112	ASCORBIC-ACID	Seed	20.0	88.0	-0.2856259499860121	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	YTTERBIUM	Seed		0.1	-0.2826900050957917	Furr, A.K., et al. 1979
0	BARIUM	Seed		0.1	-0.27939450847576075	Furr, A.K., et al. 1979
60	SELENIUM	Seed		0.02	-0.2635767939811563	Furr, A.K., et al. 1979
12	IODINE	Seed		0.3	-0.2504859725466935	Furr, A.K., et al. 1979

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2	COBALT	Seed		0.2	-0.19726970453812753	Furr, A.K., et al. 1979
0	ANTIMONY	Seed		0.1	-0.16686477174992723	Furr, A.K., et al. 1979
0	LANTHANUM	Seed		0.03	-0.1663780661615404	Furr, A.K., et al. 1979
15	FIBER	Seed	30000.0	115000.0	-0.15617696206043077	--
1	MERCURY	Seed		0.1	-0.12385851994600533	Furr, A.K., et al. 1979
14	POTASSIUM	Seed	2560.0	11491.0	-0.09489587073970547	--
0	RUBIDIUM	Seed		16.0	-0.02826125946521563	Furr, A.K., et al. 1979
0	LUTETIUM	Seed		0.01	0.06665021185544043	Furr, A.K., et al. 1979
8	STEARIC-ACID	Seed	584.0	32710.0	0.14430588634246846	--
1	SODIUM	Seed	145.0	626.0	0.2780073375488779	--
13	PALMITIC-ACID	Seed	4380.0	75495.0	0.858105760546874	--
3	DECANOIC-ACID	Seed	4100.0	50330.0	1.0	--
0	SCYLLITOL	Leaf		3200.0	1.0	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	LIGNIN	Hull Husk		294000.0	1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	WATER	Seed	363000.0	546000.0	1.2218063723076176	--
7	CHLORINE	Seed		1007.0	1.3276510863378361	Furr, A.K., et al. 1979
0	FLUORINE	Seed		2.7	1.3555425831264722	Furr, A.K., et al. 1979
6	MYRISTIC-ACID	Seed	7650.0	133015.0	1.4452781690520207	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	EUROPIUM	Seed		0.1	1.4740366676721104	Furr, A.K., et al. 1979
12	COPPER	Seed	3.2	33.0	1.6495159701011972	--
0	KILOCALORIES	Seed	2960.0	7050.0	1.714930755646975	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
5	CAPRYLIC-ACID	Seed	3154.0	68305.0	1.9870944275459317	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FAT	Seed	58400.0	719000.0	2.3893388137261935	--
3	CAPRIC-ACID	Seed	2628.0	69743.0	2.633904573975057	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
14	MANGANESE	Seed	9.0	281.0	2.833645212569222	--
0	TUNGSTEN	Seed		0.3	2.89737971498178	Furr, A.K., et al. 1979
7	LAURIC-ACID	Seed	25754.0	431400.0	3.356450956978854	--
0	SFA	Seed	296980.0	560235.0	4.92625755934881	USDA's Ag Handbook 8 and sequelae)