

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Psophocarpus tetragonolobus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
3	ALANINE	Leaf	1720.0	7430.0	-1.2016097399886847	--
3	ALANINE	Tuber	3970.0	9319.0	1.557710779605233	--
3	ALANINE	Seed	10400.0	11346.0	0.25292271625770724	--
15	ALPHA-LINOLENIC-ACID	Tuber	210.0	493.0		--
15	ALPHA-LINOLENIC-ACID	Seed	230.0	2858.0	-0.27451820813461353	--
15	ALPHA-LINOLENIC-ACID	Leaf	260.0	1123.0	-1.0820526414679714	--
14	ARGININE	Tuber	4120.0	9671.0	0.4703507568264136	--
14	ARGININE	Seed	18860.0	20576.0	-0.17210131562826794	--
14	ARGININE	Leaf	1780.0	7689.0	-0.7904243451957023	--
112	ASCORBIC-ACID	Seed				--
112	ASCORBIC-ACID	Fruit		190.0	-0.2726753768551174	--
0	ASH	Leaf	19000.0	99360.0	-0.34341968927878475	--
0	ASH	Tuber	20000.0	46948.0	-0.7575557655151164	--
0	ASH	Seed	6120.0	80863.0	0.9920470511989319	--
3	ASPARTIC-ACID	Tuber	17350.0	40728.0	1.2126583836273015	--
3	ASPARTIC-ACID	Seed	31870.0	34770.0	1.0813768688489356	--
3	ASPARTIC-ACID	Leaf	5170.0	22333.0	-0.2966039595260125	--
53	BETA-CAROTENE	Seed	0.78	6.0	-0.05425299955351525	--
53	BETA-CAROTENE	Fruit		4.0	-0.1430687011995372	--
22	BETULINIC-ACID	Root		53000.0	3.8171156804285995	Jim Duke's personal files.
28	CALCIUM	Seed	567.0	8586.0	0.8153644089249918	--
28	CALCIUM	Leaf	1845.0	11383.0	-0.4819955536205135	--
28	CALCIUM	Tuber	300.0	704.0	-0.9355421766643365	--
0	CARBOHYDRATES	Tuber	281000.0	659624.0	-1.7030957801473678	--
0	CARBOHYDRATES	Seed	43100.0	455051.0	-0.2716418225184974	--
0	CARBOHYDRATES	Leaf	141000.0	609071.0	-0.022097666472832622	--
12	COPPER	Seed	28.0	33.0	1.6495159701011972	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
2	CYSTINE	Tuber	1970.0	4624.0	1.412121670161176	--
2	CYSTINE	Seed	5450.0	5946.0	1.9451550442744132	--
2	CYSTINE	Leaf	750.0	3240.0	0.2732055722490112	--
2	ERUCIC-ACID	Tuber	10.0	23.0		--
2	ERUCIC-ACID	Seed	20.0	154.0	-0.8137179048354621	--
2	ERUCIC-ACID	Leaf	20.0	86.0	-1.3746709538531923	--
0	FAT	Tuber	9000.0	21127.0	1.3456169931021502	--
0	FAT	Seed	5430.0	180020.0	-0.4496616389840641	--
0	FAT	Leaf	11000.0	47520.0	-0.17818753625573297	--
15	FIBER	Tuber	74000.0	173709.0	2.160852972122847	--
15	FIBER	Seed	21980.0	227005.0	0.7282336474734341	--
15	FIBER	Leaf	25000.0	216000.0	0.6735231673378518	--
15	FOLACIN	Seed	0.4	0.5	-0.8686494784736316	--
0	GADOLEIC-ACID	Seed	3030.0	3306.0	-0.2354481461458563	--
8	GLUTAMIC-ACID	Tuber	8000.0	18779.0	-0.06387581149516006	--
8	GLUTAMIC-ACID	Seed	40100.0	43749.0	0.08589164643808482	--
8	GLUTAMIC-ACID	Leaf	3890.0	16803.0	-1.142000315027485	--
12	GLYCINE	Tuber	3900.0	9155.0	1.533447141764445	--
12	GLYCINE	Seed	11400.0	12437.0	0.2146778870656656	--
12	GLYCINE	Leaf	1490.0	6436.0	-1.0570165649654388	--
9	HCN	Stem				--
7	HISTIDINE	Tuber	2410.0	5657.0	1.598810359532183	--
7	HISTIDINE	Leaf	7900.0	8618.0	1.6268625166061266	--
6	IRON	Seed	15.0	158.0	0.03348544932864827	--
6	IRON	Leaf	20.0	259.0	-0.2640811219950509	--
6	IRON	Tuber	20.0	47.0	-0.9038475374149667	--
3	ISOLEUCINE	Tuber	4250.0	9976.0	1.5964830014926703	--

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3	ISOLEUCINE	Seed	14680.0	16016.0	0.7049276322959629	--
3	ISOLEUCINE	Leaf	2040.0	8812.0	-0.8377541303154443	--
0	KILOCALORIES	Tuber	1590.0	3732.0	0.16111478146319552	--
0	KILOCALORIES	Seed	490.0	4462.0	-0.310540155413468	--
0	KILOCALORIES	Leaf	740.0	3197.0	0.28839985906586074	--
2	LEUCINE	Tuber	6400.0	15023.0	1.67571314544263	--
2	LEUCINE	Seed	24970.0	27242.0	0.9725558163173301	--
2	LEUCINE	Leaf	3590.0	15508.0	-0.1548753696789408	--
27	LINOLEIC-ACID	Leaf	1870.0	8078.0	-0.01729539289577017	--
27	LINOLEIC-ACID	Tuber	1530.0	3592.0	1.0	--
27	LINOLEIC-ACID	Seed	1640.0	44381.0	-0.5375728015633745	--
4	LYSINE	Tuber	5920.0	13897.0	1.6784251962427683	--
4	LYSINE	Seed	21360.0	23304.0	1.517829677713146	--
4	LYSINE	Leaf	2280.0	9849.0	-0.6872511348812355	--
65	MAGNESIUM	Seed	340.0	2623.0	-0.12765623085472022	--
65	MAGNESIUM	Leaf	80.0	346.0	-1.4594878487198142	--
14	MANGANESE	Seed	34.0	44.0	-0.1186048828781413	--
15	METHIONINE	Seed	3560.0	3884.0	-0.11124028840146377	--
15	METHIONINE	Leaf	640.0	2765.0	-0.267559283063708	--
15	METHIONINE	Tuber	1430.0	3357.0	1.6722129344313175	--
13	MUFA	Tuber	2340.0	5493.0	1.0	--
13	MUFA	Seed	2500.0	65590.0	-0.3171111223095563	--
13	MUFA	Leaf	2850.0	12312.0	0.46841244175438723	--
6	MYRISTIC-ACID	Seed	10.0	305.0	-0.2920105038220169	--
6	MYRISTIC-ACID	Leaf	10.0	43.0	-0.715739317406298	--
39	NIACIN	Seed	9.0	69.0	0.7816979184632326	--
18	OLEIC-ACID	Tuber	2320.0	5446.0	1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
18	OLEIC-ACID	Seed	2480.0	61684.0	-0.47202151385310903	--
18	OLEIC-ACID	Leaf	2840.0	12268.0	1.0824599430267432	--
13	PALMITIC-ACID	Leaf	760.0	3283.0	-0.3271548367142454	--
13	PALMITIC-ACID	Tuber	620.0	1455.0	1.0	--
13	PALMITIC-ACID	Seed	660.0	13692.0	-0.41709066285976165	--
7	PHENYLALANINE	Tuber	4510.0	10587.0	1.6201849608902243	--
7	PHENYLALANINE	Seed	14290.0	15590.0	0.483590543692155	--
7	PHENYLALANINE	Leaf	1880.0	8121.0	-0.5561969565076621	--
4	PHOSPHORUS	Tuber	450.0	1056.0	-1.0779395175137283	--
4	PHOSPHORUS	Seed	334.0	5058.0	-0.07804981200774307	--
4	PHOSPHORUS	Leaf	525.0	3175.0	-0.3305242411265015	--
14	POTASSIUM	Seed	2014.0	18873.0	0.554303061169027	--
14	POTASSIUM	Leaf	1760.0	7602.0	-1.004239273450328	--
0	PROLINE	Leaf	1680.0	7257.0	-0.5775704329768899	--
0	PROLINE	Tuber	6790.0	15939.0	1.66057243292518	--
0	PROLINE	Seed	19240.0	20991.0	1.8968412533614334	--
0	PROTEIN	Tuber	116000.0	272300.0	2.257216804827221	--
0	PROTEIN	Seed	39760.0	765738.0	4.731898970418506	--
0	PROTEIN	Leaf	58000.0	254880.0	0.4293152138812407	--
4	PUFA	Tuber	1740.0	4085.0	1.0	--
4	PUFA	Seed	1860.0	47240.0	-0.4461595808541117	--
4	PUFA	Leaf	2130.0	9201.0	-1.4161635126790344	--
15	RIBOFLAVIN	Seed	1.0	7.7	1.6003863849892273	--
1	SERINE	Tuber	4640.0	10892.0	1.667447844953693	--
1	SERINE	Seed	12350.0	13474.0	0.5557275304904465	--
1	SERINE	Leaf	1490.0	6436.0	-0.9790662724469538	--
0	SFA	Tuber	2220.0	5211.0	1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	SFA	Seed	2380.0	25125.0	-0.3315671556717598	--
0	SFA	Leaf	2720.0	11750.0	-0.11720159649741325	--
1	SODIUM	Seed	31.0	429.0	-0.03471403306658902	--
8	STEARIC-ACID	Tuber	360.0	845.0	1.0	--
8	STEARIC-ACID	Seed	7450.0	8128.0	-0.38904004052981384	--
8	STEARIC-ACID	Leaf	440.0	1901.0	0.616816492807743	--
31	THIAMIN	Seed	1.4	11.2	1.10126507491978	--
4	THREONINE	Tuber	4510.0	10587.0	1.7166275671075264	--
4	THREONINE	Seed	11790.0	12863.0	1.0570792621709848	--
4	THREONINE	Leaf	1820.0	7862.0	-0.6461852655700264	--
29	TRYPTOPHAN	Tuber	2520.0	5915.0	1.4074884647877386	--
29	TRYPTOPHAN	Seed	7620.0	8313.0	1.7010446499058511	--
29	TRYPTOPHAN	Leaf	1160.0	5011.0	2.052127089383901	--
8	TYROSINE	Tuber	3530.0	8286.0	1.6435482614290524	--
8	TYROSINE	Seed	14570.0	15896.0	1.8890810094036037	--
8	TYROSINE	Leaf	1260.0	5443.0	-0.7120979322596672	--
3	VALINE	Tuber	5990.0	14061.0	1.6795363808808315	--
3	VALINE	Seed	15300.0	16692.0	0.57644516120325	--
3	VALINE	Leaf	2450.0	10583.0	-0.5915120272081044	--
0	VIT-B-6	Seed	1.1	8.7	1.5883448748154516	--
0	WATER	Tuber		574000.0	-2.0791540131503057	--
0	WATER	Seed	79780.0	882930.0	2.514747326815798	--
0	WATER	Leaf	758000.0	779000.0	-0.14287286838554977	--
77	ZINC	Seed	43.0	51.0	0.16659222798430076	--