

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Bertholletia excelsa*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3,3'-DI-O-METHYL-ELLAGIC-ACID	Bark				Lowry, J. B. 1968. The Distribution and Potential Taxonomic Value of Alkylated Ellagic Acids. <i>Phytochemistry</i> , 7(10): 1803-1813.
0	3-O-METHYL-ELLAGIC-ACID	Bark				Lowry, J. B. 1968. The Distribution and Potential Taxonomic Value of Alkylated Ellagic Acids. <i>Phytochemistry</i> , 7(10): 1803-1813.
3	ALANINE	Seed	5700.0	5897.0	-0.9054256803903415	USDA's Ag Handbook 8 and sequelae)
0	ALBUMIN	Seed				Rotenberg, B. and Iachan, A. 1975. Study on the Protein of Brazil Nuts from Para. <i>Inf. Int.</i> , 8(7): 22-24.
15	ALPHA-LINOLENIC-ACID	Seed	620.0	641.0	-0.3182376706774602	USDA's Ag Handbook 8 and sequelae)
5	ALUMINUM	Seed		5.0	-0.3553273886337623	--
0	ANTIMONY	Seed		0.1	-0.16686477174992723	--
14	ARGININE	Seed	23900.0	24727.0	0.0036672769609157104	--
2	ARSENIC	Seed		0.02	-0.6237689826185465	--
112	ASCORBIC-ACID	Seed		7.0	-0.3342542032240146	USDA's Ag Handbook 8 and sequelae)
0	ASH	Seed	31840.0	35342.0	-0.377116742404479	USDA's Ag Handbook 8 and sequelae)
3	ASPARTIC-ACID	Seed	13550.0	14019.0	-0.7608039676359202	--
0	BARIUM	Seed	1764.0	2600.0	3.9963446639781797	--
53	BETA-CAROTENE	Seed		0.0	-0.42930857989782434	USDA's Ag Handbook 8 and sequelae)
4	BORON	Seed		2.7	-1.0156502138111045	Furr, A.K., et al. 1979
0	BROMINE	Seed		87.0	3.1956822484444998	Furr, A.K., et al. 1979
3	CADMIUM	Seed		0.03	-0.33359741952043553	Furr, A.K., et al. 1979
28	CALCIUM	Seed	1300.0	1820.0	-0.4272652670544074	--
0	CARBOHYDRATES	Seed	128000.0	132429.0	-1.5538068283239588	USDA's Ag Handbook 8 and sequelae)
0	CERIUM	Seed		1.2	1.6666666666666666	Furr, A.K., et al. 1979
0	CESIUM	Seed		1.3	3.23868828563654	Furr, A.K., et al. 1979

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	CHLORINE	Seed		246.0	-0.23430065550307377	Furr, A.K., et al. 1979
24	CHROMIUM	Seed		0.6	-0.5951002882484197	Furr, A.K., et al. 1979
2	COBALT	Seed		1.9	-0.12353826229290665	Furr, A.K., et al. 1979
12	COPPER	Seed		18.0	0.2889427800893567	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Seed	3490.0	3611.0	0.32073683050270185	USDA's Ag Handbook 8 and sequelae)
51	ELLAGIC-ACID	Bark				Lowry, J. B. 1968. The Distribution and Potential Taxonomic Value of Alkylated Ellagic Acids. Phytochemistry, 7(10): 1803-1813.
0	EUROPIUM	Seed		0.1	1.4740366676721104	Furr, A.K., et al. 1979
0	FAT	Seed	649190.0	700000.0	2.2892590174415544	--
15	FIBER	Seed	21160.0	25492.0	-0.8629474172915114	USDA's Ag Handbook 8 and sequelae)
0	FLUORINE	Seed		1.7	0.18386348866874996	Furr, A.K., et al. 1979
15	FOLACIN	Seed		0.0	-1.0754707828721153	USDA's Ag Handbook 8 and sequelae)
0	GADOLEIC-ACID	Seed	620.0	641.0	-0.6365875996303121	USDA's Ag Handbook 8 and sequelae)
0	GLOBULIN	Seed				Rotenberg, B. and Iachan, A. 1975. Study on the Protein of Brazil Nuts from Para. Inf. Int., 8(7): 22-24.
8	GLUTAMIC-ACID	Seed	31510.0	32600.0	-0.3844945310779699	--
12	GLYCINE	Seed	6570.0	6797.0	-0.6007678613032196	USDA's Ag Handbook 8 and sequelae)
7	HISTIDINE	Seed	4020.0	4159.0	-0.5224127744298973	USDA's Ag Handbook 8 and sequelae)
12	IODINE	Seed		0.2	-0.2597992240316176	Furr, A.K., et al. 1979
6	IRON	Seed	30.0	93.0	-0.26852446447279704	--
3	ISOLEUCINE	Seed	6010.0	6218.0	-0.5453121184091793	USDA's Ag Handbook 8 and sequelae)
0	KILOCALORIES	Seed	6560.0	6787.0	1.5090965788274633	USDA's Ag Handbook 8 and sequelae)
0	LANTHANUM	Seed		0.1	3.0363997074481164	Furr, A.K., et al. 1979
20	LECITHIN	Seed	60000.0	105000.0	2.126357232329307	--

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2	LEUCINE	Seed	11870.0	12281.0	-0.45949342683236916	--
27	LINOLEIC-ACID	Seed	140225.0	314300.0	1.7751199875573003	--
0	LUTETIUM	Seed		0.01	0.06665021185544043	Furr, A.K., et al. 1979
4	LYSINE	Seed	5410.0	5597.0	-0.880677894827845	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Seed	1600.0	3370.0	0.1674785712889608	--
14	MANGANESE	Seed		8.0	-0.5670479353511585	USDA's Ag Handbook 8 and sequelae)
1	MERCURY	Seed		0.01	-0.6911494509964113	Furr, A.K., et al. 1979
15	METHIONINE	Seed	10140.0	10346.0	1.557371259000904	--
13	MUFA	Seed	230160.0	238125.0	0.9310581877148646	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Seed	6200.0	12600.0	-0.13105832061814157	--
39	NIACIN	Seed	2.0	17.0	-0.7748758974183192	--
3	NICKEL	Seed		5.8	0.20039121675627405	Furr, A.K., et al. 1979
18	OLEIC-ACID	Seed	198000.0	408100.0	2.375721403223878	--
13	PALMITIC-ACID	Seed	87630.0	113400.0	1.640208901644046	--
2	PALMITOLEIC-ACID	Seed	3240.0	3352.0	-0.21800429838182483	USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Seed	2.0	3.0	-1.4394506393179622	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Seed	7460.0	7718.0	-0.4564660298802278	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Seed	6000.0	6750.0	0.36907644532227457	--
0	PHYTATE	Seed	17990.0	19660.0	0.9178382325484765	--
14	POTASSIUM	Seed	5405.0	6450.0	-0.5382190644205399	--
0	PROLINE	Seed	7620.0	7884.0	-0.6781498636239054	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Seed	138820.0	153100.0	-0.7178333113483142	--
4	PUFA	Seed	241290.0	249640.0	1.0955996813037416	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Seed	0.35	1.0	-0.9674166926890354	USDA's Ag Handbook 8 and sequelae)
7	SALICYLATES	Seed	4.0	5.0	-0.31335120458680416	--
0	SAMARIUM	Seed		0.04	-0.3314596066672648	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SCANDIUM	Seed		0.02	3.3905098247959566	--
60	SELENIUM	Seed	3.0	497.0	4.658344049149813	--
0	SELENOPROTEIN	Seed				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	SERINE	Seed	7460.0	7718.0	-0.5474128088172994	USDA's Ag Handbook 8 and sequelae)
0	SFA	Seed	161540.0	167130.0	1.0637298835472715	USDA's Ag Handbook 8 and sequelae)
4	SILICON	Seed		1770.0	1.6241085618050828	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Seed	7.0	20.0	-0.6839680461717969	--
8	STEARIC-ACID	Seed	16228.0	72800.0	1.0141227526800243	--
0	STRONTIUM	Seed		77.0	1.6988734717211422	Furr, A.K., et al. 1979
0	TANTALUM	Seed		0.1	1.7919573407620824	--
31	THIAMIN	Seed		10.0	0.8149652509512033	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Seed	4600.0	4759.0	-0.7557410695030496	USDA's Ag Handbook 8 and sequelae)
4	TIN	Seed		3.5	-0.14174299257156445	--
0	TITANIUM	Seed		6.1	-0.433922192088565	--
93	TOCOPHEROL	Seed	76.0	80.0	-0.39731686622758594	--
29	TRYPTOPHAN	Seed	2600.0	2690.0	-0.2165879683252753	USDA's Ag Handbook 8 and sequelae)
0	TUNGSTEN	Seed		0.1	0.013110315452406329	Furr, A.K., et al. 1979
8	TYROSINE	Seed	4570.0	4728.0	-0.6980121707739357	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Seed	9110.0	9425.0	-0.3185572801734499	USDA's Ag Handbook 8 and sequelae)
16	VANADIUM	Seed		0.01	-0.5814082457706883	Furr, A.K., et al. 1979
0	VIT-B-6	Seed	2.0	3.0	-0.7480591991066328	USDA's Ag Handbook 8 and sequelae)
0	WATER	Seed	32860.0	38770.0	-0.7246467198930903	USDA's Ag Handbook 8 and sequelae)
0	YTTERBIUM	Seed		0.2	-0.20094831687532186	--
77	ZINC	Seed	41.0	53.0	0.22337262467547583	--