

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Raphanus sativus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	WATER	Root	926000.0	945000.0	1.1503622847483013	--
0	WATER	Fruit	899000.0	923000.0	0.6627549649088714	--
0	WATER	Leaf		856000.0	0.2412787411612874	--
0	CARBOHYDRATES	Root	36000.0	757000.0	-0.9373999864777716	--
0	CARBOHYDRATES	Fruit	54000.0	701000.0	-0.43786341053504685	--
0	CARBOHYDRATES	Leaf	57000.0	496000.0	-0.92130780769753	--
0	FAT	Seed	298000.0	410000.0	0.7617252846760071	--
0	PROTEIN	Seed	236000.0	336000.0	0.9091569085452464	--
0	PROTEIN	Leaf	33000.0	287000.0	0.7497432490496416	--
0	PROTEIN	Fruit	13000.0	257000.0	1.977321211058371	--
0	FAT	Root	1000.0	187000.0	5.473176228123946	--
0	ASH	Root	10000.0	185700.0	3.373579886442801	--
0	PROTEIN	Root	5260.0	182000.0	0.7140489088819959	--
15	FIBER	Root	5200.0	176000.0	1.951848423469213	--
15	FIBER	Fruit	11000.0	147000.0	0.05023622589834482	--
15	FIBER	Leaf	11000.0	96000.0	-0.8104144402204058	--
14	POTASSIUM	Root	2215.0	85700.0	5.119871379558352	--
0	FAT	Leaf	6000.0	52000.0	-0.0889155268927993	--
0	FAT	Fruit	3000.0	50000.0	-0.2593561116439818	--
14	POTASSIUM	Leaf	5000.0	43478.0	0.5799646801360487	--
0	NITROGEN	Root	2000.0	38570.0	1.315746330715461	--
8	GLUTAMIC-ACID	Root	1320.0	25580.0	0.8780332997335651	--
14	POTASSIUM	Fruit	2070.0	20495.0	0.2281286104261986	--
28	CALCIUM	Leaf	2380.0	19130.0	0.04733871519487487	--
14	POTASSIUM	Seed		11900.0	-0.05892697841368656	--
4	PHOSPHORUS	Fruit	240.0	10526.0	2.2203394774257896	--
28	CALCIUM	Fruit	260.0	10130.0	1.4477244901962487	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
1	SODIUM	Leaf	1100.0	9565.0	1.0515249050717141	--
3	ASPARTIC-ACID	Root	480.0	9300.0	-0.0848060057166038	--
4	PUFA	Root	450.0	8720.0	1.4643547229189193	--
28	CALCIUM	Root	190.0	8570.0	0.1278289848512276	--
112	ASCORBIC-ACID	Fruit	690.0	7822.0	0.20185943165549472	--
2	LEUCINE	Root	370.0	7170.0	1.6328394082828344	--
112	ASCORBIC-ACID	Leaf	810.0	7043.0	0.20958055681723248	--
4	LYSINE	Root	350.0	6785.0	2.796262067475613	--
112	ASCORBIC-ACID	Root	226.0	6216.0	2.907368548024328	--
3	VALINE	Root	320.0	6200.0	1.238900039837609	--
14	SULFUR	Root	350.0	6140.0	1.0087754495866312	--
4	PHOSPHORUS	Root	160.0	5850.0	0.4097993018467051	--
3	ISOLEUCINE	Root	300.0	5815.0	1.2221432553684863	--
4	THREONINE	Root	290.0	5620.0	0.5727285358208635	--
0	LINOLENIC-ACID	Root	290.0	5620.0	1.3249084939515468	--
13	PALMITIC-ACID	Root	260.0	5040.0	-0.16095154051510815	--
1	SODIUM	Root	100.0	5020.0	1.824614811770704	--
7	PHENYLALANINE	Root	230.0	4455.0	1.4050523552411662	--
12	GLYCINE	Root	220.0	4265.0	1.1175633886812555	--
3	ALANINE	Root	220.0	4265.0	0.40526262007010044	--
1	SERINE	Root	210.0	4070.0	0.3980910596007637	--
65	MAGNESIUM	Seed		3960.0	0.40058370283484	--
28	CALCIUM	Seed		3670.0	-0.08749806330597563	--
65	MAGNESIUM	Root	85.0	3570.0	0.5366031605442027	--
0	KILOCALORIES	Root	170.0	3510.0	0.3159877195099708	--
0	PROLINE	Root	180.0	3490.0	1.0270008960868768	--
0	KILOCALORIES	Fruit	340.0	3370.0	-0.44129830166451617	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	MUFA	Root	170.0	3295.0	0.40270587952593356	--
18	OLEIC-ACID	Root	160.0	3100.0	0.3600313505520598	--
27	LINOLEIC-ACID	Root	160.0	3100.0	-0.008038806511691974	--
0	KILOCALORIES	Leaf	330.0	2870.0	-0.23869554218681407	--
4	PHOSPHORUS	Leaf	300.0	2609.0	-0.43466087010548	--
7	HISTIDINE	Root	130.0	2520.0	0.7088172716746535	--
8	TYROSINE	Root	130.0	2520.0	0.8251922608863878	--
15	METHIONINE	Root	70.0	1355.0	0.4783121785859922	--
2	PHYTOSTEROLS	Root	70.0	1355.0	1.1293150050143528	--
2	CYSTINE	Root	50.0	970.0	0.20882838191387304	--
8	STEARIC-ACID	Root	40.0	775.0	0.9754132071842386	--
29	TRYPTOPHAN	Root	40.0	775.0	-0.21930492980670194	--
1	SODIUM	Fruit	50.0	495.0	-0.1370104923804784	--
4	SILICON	Root	10.0	425.0	1.6094143869598818	--
6	IRON	Leaf	41.0	357.0	-0.015676844638709195	--
39	NIACIN	Leaf	40.0	348.0	3.046969756928759	--
6	IRON	Fruit	4.0	295.0	0.6426973088890999	--
53	BETA-CAROTENE	Leaf	24.7	214.0	-0.2059805950207806	--
0	4-METHYLSULFOXIDEBUTEN-(3)-YL-CYANIDE	Seed		200.0		--
6	IRON	Root	2.0	189.0	-0.1670758030308279	--
5	ALUMINUM	Root	6.0	185.0	-0.21321719289408725	--
1	SODIUM	Seed		134.0	-0.5030023799273134	--
6	IRON	Seed		120.0	-0.14307419258604284	--
9	OXALIC-ACID	Root		92.0	-0.6026695352229113	--
102	CAFFEIC-ACID	Root		91.0	-0.8579670121208511	--
25	P-COUMARIC-ACID	Root		91.0		--
77	ZINC	Root	2.0	72.0	2.094487921197827	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
39	NIACIN	Root	3.0	68.0	0.5147577614900641	--
4	BORON	Root	0.6	64.0	1.477067246085534	--
39	NIACIN	Fruit	2.0	59.0	-0.022700826609939526	--
14	MANGANESE	Seed		40.0	-0.16843188870847656	--
77	ZINC	Seed		29.0	-0.4579921356186253	--
53	BETA-CAROTENE	Fruit	0.3	26.2	-0.10015650118192879	--
15	RIBOFLAVIN	Leaf	2.6	24.0	-0.0653618684131857	--
14	MANGANESE	Root	0.5	20.0	-0.3070547518662765	--
11	PANTOTHENIC-ACID	Root	0.8	18.0	0.07385387924652301	--
61	FERULIC-ACID	Root		16.0		--
0	RUBIDIUM	Root	0.44	15.7	0.3689678556451748	--
0	VIT-B-6	Root	0.7	14.5	1.4503946184590628	--
31	THIAMIN	Root	0.3	9.7	0.2691441146542965	--
15	RIBOFLAVIN	Root	0.3	9.3	1.1435500198349617	--
12	COPPER	Root	0.3	8.0	-0.41187569962209786	--
31	THIAMIN	Fruit	0.3	7.9	0.3286267464254556	--
31	THIAMIN	Leaf	1.4	7.0	-0.2718958403939485	--
12	COPPER	Seed		6.0	-0.7995157719201157	--
15	FOLACIN	Root	0.3	5.8	0.997040538050167	--
15	RIBOFLAVIN	Fruit	0.3	5.3	0.06225837976134417	--
53	BETA-CAROTENE	Root	0.0	1.0	-0.43002798118623115	--
3	NICKEL	Root	0.01	0.71	-0.7704133091326751	--
0	LEAD	Root	0.01	0.57	-0.5507800519339017	--
3	CADMIUM	Root	0.005	0.57	-0.28957246722921753	--
24	CHROMIUM	Root	0.01	0.14	-0.5320345073756583	--
1	MERCURY	Root	0.0	0.014	-0.4618027625546892	--
0	RAPHANUSIN-B	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
2	MOLYBDENUM	Root				--
1	GLUCOBRASSICIN	Plant				--
2	ERUCIC-ACID	Seed				--
0	INDOLEACETONITRILE	Root				--
0	RAPHANUSIN-A	Root				--
0	METHYL-MERCAPTAN	Seed				--
0	L-SULFORAPHENE	Root				--
25	DIALLYL-SULFIDE	Root				--
1	INDOLE-ACETIC-ACID	Root				--
3	RAPHANIN	Seed				--
0	FLUORINE	Root				--
60	SELENIUM	Root				--
0	PUTRESCINE	Leaf				--
0	SPERMINIDINE	Leaf				--
0	S-METHYL-L-CYSTEINSULFOXIDE	Root				--
1	SPERMINE	Leaf				--
0	GLYCEROL-SINAPATE	Seed				--
2	COBALT	Root				--
0	BROMINE	Root				--
2	ARSENIC	Root				--
1	ISOBUTYRALDEHYDE	Leaf				--
0	TRIACONTANE	Seed				--
1	GLUCORAPHANIN	Root				--
14	ARGININE	Plant				--
1	N-BUTYRALDEHYDE	Leaf				--
0	BETA-HEXYLALDEHYDE	Seed				--
0	GLUCOPUTRANJIVIN	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	RAPHANUSIN-D	Root				--
6	MYRISTIC-ACID	Root				--
0	GLUCOLEPIDIIN	Seed				--
7	SINIGRIN	Seed				--
0	RAPHANUSIN-C	Root				--
0	GLUCOCAPPARIN	Seed				--
9	SINAPIC-ACID	Root				--