

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Pastinaca sativa*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5-ALPHA-ANDROST-16-EN-3-ONE	Root	--	--		
10	5-METHOXY-PSORALEN	Root	7.3	7.3		
15	ALPHA-LINOLENIC-ACID	Root	30	145	-0.7750108884183741	
11	ALPHA-PHELLANDRENE	Root	--	--		
13	ALPHA-TERPINENE	Root	--	--		
0	ALPHA-THUJENE	Root	--	--		
5	ALUMINUM	Root	1	35	-0.293700719848829	
17	ANGELICIN	Root	34	34	-1	
0	APTERIN	Root	--	--		
2	ARSENIC	Root	0.01	0.01	-0.20704596077537676	
112	ASCORBIC-ACID	Root	160	830	-0.17150865794975564	
0	ASH	Seed	12000	12000	-1.0791887810304062	
0	ASH	Root	9800	90000	0.6408196752709441	
26	BERGAPTEN	Root	3.2	3800	1.4058953216164003	
26	BERGAPTEN	Seed	--	--		
6	BETA-BISABOLENE	Root	--	--		
53	BETA-CAROTENE	Root	0.2	1	-0.43002798118623115	
3	BETA-PHELLANDRENE	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Root	--	--		
0	BETA-TRANS-FARNESENE	Root	--	--		
4	BORON	Root	4	25	0.035124252410043834	
0	BROMINE	Root	--	--		
3	CADMIUM	Root	0.01	0.4	-0.46145556579404634	
28	CALCIUM	Root	315	3525	-0.4246895473874048	
9	CAMPHENE	Root	--	--		
0	CARBOHYDRATES	Root	17500	902000	0.9235890945220537	
24	CHROMIUM	Root	0.01	0.1	-0.5400069758594586	
0	CIS-ALLO-OCIMENE	Root	--	--		
0	CIS-BETA-OCIMENE	Root	--	--		
2	COBALT	Root	--	--		
12	COPPER	Root	0.8	12	0.030952809022615355	
0	FAT	Root	3000	24000	0.03735642814941123	
0	FAT	Seed	173000	288000	0.11910764537463867	
15	FIBER	Root	15000	97700	0.2129355963802772	
0	FLUORINE	Root	0.1	0.1	-0.8144046057224281	
15	FOLACIN	Root	0.6	3.6	0.1146023606954218	
11	GAMMA-TERPINENE	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
25	IMPERATORIN	Seed	--	--		
25	IMPERATORIN	Leaf	--	--		
25	IMPERATORIN	Root	1700	1700		
6	IRON	Root	4	112	-0.27894067051592986	
0	ISOBERGAPTEN	Plant	--	--		
8	ISOIMPERATORIN	Seed	--	--		
15	ISOPIMPINELLIN	Seed	--	--		
11	ISORHAMNETIN	Leaf	--	--		
0	ISORHAMNETIN-3-GLUCOSIDE-4-RHAMNOSIDE	Plant	--	--		
75	KAEMPFEROL	Seed	--	--		
0	KILOCALORIESS	Root	650	3664		
0	LEAD	Root	0.01	0.1	-0.6699635806672968	
60	LIMONENE	Root	--	--		
27	LINOLEIC-ACID	Seed	36330	36330	-0.6065545688536007	
27	LINOLEIC-ACID	Root	410	2000	-0.41796470147876863	
65	MAGNESIUM	Root	230	2100	-0.2455907206102601	
14	MANGANESE	Root	2	33	-0.15182265093812775	
1	MERCURY	Root	0.001	0.002	-0.5049725164958411	
2	MOLYBDENUM	Root	0.1	0.5	-0.3359067482263448	

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13	MUFA	Root	1120	5470	1.3020490347947684	
22	MYRCENE	Root	--	--		
6	MYRISTIC-ACID	Root	30	145	-0.5465853618431903	
31	MYRISTICIN	Root Essent. Oil	183000	662000	1	
0	N-HEPTACOSANE	Seed	--	--		
2	N-HEXACOSANE	Seed	--	--		
1	N-NONACOSANE	Seed	--	--		
0	N-NONADECANE	Seed	--	--		
0	N-OCTACOSANE	Seed	--	--		
0	N-OCTADECANE	Seed	--	--		
0	N-OCTYL-ALCOHOL	Seed	--	--		
0	N-TRIACONTANE	Seed	--	--		
39	NIACIN	Root	2	34	-0.47064026801234154	
3	NICKEL	Root	0.04	1.6	-0.2702908838022001	
0	NITROGEN	Root	3000	33160	0.6383899530572518	
0	OCTYL-BUTYRATE	Plant	--	--		
0	OCTYL-PROPIONATE	Plant	--	--		
18	OLEIC-ACID	Seed	1020	158000	0.3197525577867319	
9	OXALIC-ACID	Root	205	205	-0.5302787220629975	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
16	P-CYMENE	Root	--	--		
13	PALMITIC-ACID	Seed	1730	2880	-0.6401773047682863	
13	PALMITIC-ACID	Root	300	1730	-0.3196564172593014	
2	PALMITOLEIC-ACID	Root	30	145	-0.6583177937370807	
11	PANTOTHENIC-ACID	Root	6	29	1.6633178021608177	
0	PASTINACIN	Seed	--	--		
0	PETROSELINDIOLEIN	Seed	--	--		
0	PETROSELINIC-ACID	Seed	79580	132500	-1.7539650873288888	
0	PETROSELINOLEIN	Seed	--	--		
4	PHOSPHORUS	Root	400	7365	0.6759989120394251	
7	PIMPINELLIN	Plant	--	--		
14	POTASSIUM	Root	3300	40000	1.773560595389597	
0	PROTEIN	Seed	150000	155000	-0.7009318273800378	
0	PROTEIN	Root	12000	85000	-0.3752136469834639	
31	PSORALEN	Root	7.1	10.5	-0.8882012436998864	
4	PUFA	Root	470	2300	-1.155142522156742	
0	PYRUVIC-CARBOXYLASE	Root	--	--		
176	QUERCETIN	Leaf	--	--		
2	QUERCETIN-3-O-BETA-D-GLUCOSIDE	Leaf	--	--		

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4	QUERCETIN-3-RHAMNOGLUCOSIDE	Leaf	--	--		
15	RIBOFLAVIN	Root	0.5	4	-0.0163136920018201	
0	RUBIDIUM	Root	0.6	10	-0.40996428405019386	
87	RUTIN	Plant	--	--		
5	SABINENE	Root	--	--		
0	SELINIUM	Root	0.001	0.002		
0	SFA	Root	500	2445	-0.18843753881843384	
4	SILICON	Root	2	50	-0.11322015528932952	
1	SODIUM	Root	100	575	-0.24504386206176676	
1	SPHONDIN	Root	--	--		
8	STEARIC-ACID	Root	140	685	0.7594102824848379	
0	SUBERIN	Root	--	--		
14	SULFUR	Root	270	11050	2.4584179868509173	
9	TERPINOLENE	Root Essent. Oil	253000	666000	1.413966977392781	
31	THIAMIN	Root	0.8	11.4	0.42037206655920695	
0	TRANS-BETA-OCIMENE	Root	--	--		
0	TRIPETROSELINENE	Seed	--	--		
22	UMBELLIFERONE	Plant	--	--		
0	VIT-B-6	Root	0.9	4.4	-1.5256972735935068	

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0	WATER	Root	724000	810000	0.26675246191923024	
43	XANTHOTOXIN	Root	26	1000	0.9999999999999999	
43	XANTHOTOXIN	Leaf	800	800	1	
5	XANTHOTOXOL	Plant	--	--		
77	ZINC	Root	5	70	2.0068925301263634	