

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Daucus carota*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
10	5-METHOXY-PSORALEN	Plant				--
2	6-METHOXY-MELLEIN	Root				--
6	ACETALDEHYDE	Root				--
3	ACETONE	Root				--
19	ACETYL-CHOLINE	Root				--
3	ALANINE	Root	590.0	4830.0	0.6834408138650919	--
10	ALPHA-AMYRIN	Root				--
7	ALPHA-CAROTENE	Root	17.0	25.0		--
3	ALPHA-CURCUMENE	Seed				--
2	ALPHA-HUMULENE	Root		12.0	-0.6793853078287713	--
5	ALPHA-IONONE	Root				--
15	ALPHA-LINOLENIC-ACID	Seed	270.0	935.0	-0.31243996116568895	--
11	ALPHA-PHELLANDRENE	Root				--
28	ALPHA-PINENE	Shoot		12.0	-0.1462517233653238	--
28	ALPHA-PINENE	Seed	12.0	1300.0	-0.362127214434626	--
28	ALPHA-PINENE	Root		48.0	-0.7685293324764985	--
13	ALPHA-TERPINENE	Seed	20.0	40.0	-0.48425057209654054	--
13	ALPHA-TERPINENE	Root		28.0	-0.4450369954730677	--
23	ALPHA-TERPINEOL	Root		28.0	-0.5462153293111578	--
32	ALPHA-TOCOPHEROL	Root	4.0	36.0	1.2675004445952598	--
32	ALPHA-TOCOPHEROL	Leaf		788.0	1.545080914559651	--
5	ALUMINUM	Root	1.0	1050.0	0.2509044792115904	--
1	AMYLASE	Tissue Culture				--
1	ANTHERAXANTHIN	Leaf				--
101	APIGENIN	Fruit				--
12	ARACHIDONIC-ACID	Plant				--
14	ARGININE	Root	430.0	3520.0	-0.36254008310749936	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
2	ARSENIC	Root	0.003	1.0	-0.16512868037299994	--
15	ASARONE	Seed		400.0		--
112	ASCORBIC-ACID	Root	91.0	775.0	-0.20294910472446315	--
3	ASPARTIC-ACID	Root	1370.0	11220.0	0.1651775603079552	--
7	ASTRAGALIN	Seed				--
10	AZULENE	Seed				--
26	BERGAPTEN	Root		0.3	-0.8355891267712955	--
9	BETA-AMYRIN	Root				--
6	BETA-BISABOLENE	Shoot		38.0	-0.48536297946072016	--
6	BETA-BISABOLENE	Seed	100.0	3500.0	1.4087125025983431	--
6	BETA-BISABOLENE	Root		116.0	-0.04387653315512357	--
53	BETA-CAROTENE	Root	27.0	673.0	3.866900727382954	--
2	BETA-CRYPTOXANTHIN	Root				--
5	BETA-ELEMENE	Plant				--
13	BETA-IONONE	Seed		300.0		--
3	BETA-PHELLANDRENE	Shoot		177.0	0.14375394815958314	--
13	BETA-PINENE	Shoot		44.0	-0.11801827356688235	--
13	BETA-PINENE	Seed	50.0	5500.0	-0.02003246859166858	--
13	BETA-PINENE	Root		4.0	-0.6904491320514636	--
3	BETA-SELINENE	Seed	118.0	410.0	-1.0	--
47	BETA-SITOSTEROL	Root				--
14	BETAINE	Root		35.0	-0.3655598849684835	--
35	BORNEOL	Root				--
12	BORNYL-ACETATE	Root		24.0	-0.5936212361618939	--
12	BORNYL-ACETATE	Plant				--
4	BORON	Root	1.0	36.0	0.4418261224210795	--
6	BUTYRIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
3	CADMIUM	Root	0.012	0.6	-0.25924015571777737	--
102	CAFFEIC-ACID	Root				--
28	CALCIUM	Root	210.0	5710.0	-0.18539262113539057	--
2	CAMPESTEROL	Root				--
9	CAMPHENE	Seed	1.0	70.0	-1.3481581516889602	--
41	CAMPHOR	Seed				--
3	CAPRIC-ACID	Seed	1360.0	7065.0	-0.2085296804356218	--
3	CAROTATOXIN	Root				--
19	CARVONE	Seed				--
31	CARYOPHYLLENE	Seed	134.0	1000.0	1.0	--
31	CARYOPHYLLENE	Root		200.0	-0.39328066246203247	--
8	CARYOPHYLLENE-OXIDE	Seed	310.0	350.0	0.22301376261714642	--
8	CARYOPHYLLENE-OXIDE	Root	310.0	350.0		--
77	CHLOROGENIC-ACID	Root				--
21	CHLOROPHYLL	Plant				--
1	CHOLESTEROL	Leaf				--
20	CHOLINE	Root		36.0	-0.4093082994350739	--
20	CHOLINE	Shoot		73.0	-0.6702245164749019	--
24	CHROMIUM	Root	0.005	1.5	-0.26097057892644915	--
60	CHRYSIN	Seed				--
18	CINNAMIC-ACID	Tissue Culture				--
53	CITRAL	Seed		200.0		--
23	CITRIC-ACID	Root				--
2	CITRONELLYL-ACETATE	Seed	150.0	200.0		--
2	COBALT	Root	0.005	0.058	-0.5439497434887988	--
12	COPPER	Root	0.3	18.0	0.6951955719896852	--
4	COSMOSIIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
57	COUMARIN	Root				--
10	CROCETIN	Leaf				--
10	CUMINALDEHYDE	Seed				--
1	CYANIDIN-3-O-BETA-D-GLUCOSIDE	Tissue Culture				--
13	CYSTEINE	Tissue Culture				--
2	CYSTINE	Root	80.0	655.0	-0.47202529956487604	--
1	D-GLUCOSE	Root		80000.0	-1.0	--
5	DAUCOSTEROL	Root				--
8	DELTA-3-CARENE	Seed	12.0	120.0	-1.1355499479153377	--
7	DIOSGENIN	Tissue Culture	5400.0	6000.0	1.4142132571168902	--
7	DIOSGENIN	Root	5400.0	6000.0	0.670725254565731	--
7	DIPENTENE	Root				--
16	ELEMICIN	Seed		2000.0	-0.20856056956515395	--
1	EPSILON-CAROTENE	Root				--
30	ESCULETIN	Leaf				--
24	ETHANOL	Root				--
1	ETHYLENE	Tissue Culture				--
2	EUGENIN	Tissue Culture				--
76	EUGENOL	Seed		7000.0	1.3881489891384902	--
13	FALCARINDIOL	Root		88.0	-0.3251129376560844	--
16	FALCARINOL	Root	10.0	47.0	-0.5640524826019977	--
61	FERULIC-ACID	Root				--
15	FIBER	Root	10000.0	134000.0	1.0190982480192092	--
15	FOLACIN	Root	0.1	1.2	-0.8480574691461189	--
13	FORMIC-ACID	Plant				--
8	FRUCTOSE	Root				--
7	FUMARIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
1	GALACTOSE	Root				--
2	GAMMA-BISABOLENE	Root		264.0		--
2	GAMMA-CAROTENE	Root				--
20	GAMMA-LINOLENIC-ACID	Seed	540.0	1870.0	-1.555915507552484	--
11	GAMMA-TERPINENE	Root		216.0	1.409716316878462	--
8	GENTISIC-ACID	Tissue Culture				--
35	GERANIOL	Root	10.0	8120.0	1.0	--
35	GERANIOL	Seed	10.0	8120.0	1.0	--
5	GERANYL-ACETATE	Shoot		265.0	0.0432946667727803	--
2	GERANYL-ACETONE	Seed		300.0		--
2	GERANYL-FORMATE	Seed				--
8	GLUTAMIC-ACID	Root	2020.0	16545.0	0.11207718948474456	--
5	GLUTAMINE	Root				--
12	GLYCINE	Root	300.0	2455.0	-0.24930187596141531	--
9	HCN	Root				--
2	HERACLENIN	Root				--
7	HISTIDINE	Root	160.0	1310.0	-0.46948976552816046	--
1	INDOLE-ACETIC-ACID	Tissue Culture				--
6	IRON	Root	3.0	300.0	-0.005816058993862766	--
2	ISOBUTYRIC-ACID	Plant				--
4	ISOCHLOROGENIC-ACID	Leaf				--
3	ISOLEUCINE	Root	410.0	3360.0	-0.05718320015738177	--
15	ISOPIMPINELLIN	Root				--
75	KAEMPFEROL	Seed				--
7	LAURIC-ACID	Seed	1810.0	6280.0	-0.45601228711660197	--
7	LAURIC-ACID	Root	20.0	165.0	-0.6668066359861499	--
20	LECITHIN	Root				--

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2	LEUCINE	Root	430.0	3520.0	-0.4838244048116035	--
60	LIMONENE	Seed	20.0	1500.0	-0.6567320690884889	--
60	LIMONENE	Root		150.0	-0.4481409382990946	--
60	LIMONENE	Shoot		26.0	-0.31520363001907625	--
27	LINOLEIC-ACID	Root	670.0	5485.0	0.8807550657578334	--
27	LINOLEIC-ACID	Seed	9360.0	43400.0	-0.545978106955464	--
11	LITHIUM	Root	0.23	0.6		--
21	LUPEOL	Root				--
15	LUTEIN	Root				--
78	LUTEOLIN	Plant				--
5	LUTEOLIN-7-O-BETA-GLUCOSIDE	Seed				--
5	LUTEOLIN-7-O-BETA-GLUCOSIDE	Root		100.0		--
16	LYCOPENE	Root	80.0	140.0		--
4	LYSINE	Root	400.0	3275.0	-0.4241730515578843	--
65	MAGNESIUM	Root	100.0	1980.0	-0.309443282337155	--
15	MALIC-ACID	Root				--
2	MALTOSE	Root				--
14	MANGANESE	Root	1.0	62.0	0.19446434344005029	--
3	MANNOSE	Root				--
1	MERCURY	Root	0.001	0.045	-0.35028089820671393	--
15	METHIONINE	Root	70.0	575.0	-0.8722163256568093	--
1	METHYL-AMINE	Root		3970.0		--
2	MOLYBDENUM	Root	0.1	0.7	-0.2734124694865598	--
13	MUFA	Root	80.0	655.0	-0.6889106399727899	--
22	MYRCENE	Seed	10.0	250.0	-0.9408311502117752	--
34	MYRICETIN	Fruit				--
6	MYRISTIC-ACID	Seed	10470.0	36300.0	0.1791951760822931	--

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6	MYRISTIC-ACID	Root	10.0	80.0	-0.6449329009983664	--
31	MYRISTICIN	Root	0.5	34.0		--
1	MYRISTOLEIC-ACID	Seed				--
3	N-HENTRIACONTANE	Seed				--
1	N-NONACOSANE	Seed				--
2	NEOXANTHIN	Leaf				--
39	NIACIN	Root				--
3	NICKEL	Root	0.0	2.0	-0.045516760058166544	--
18	OLEIC-ACID	Seed	55800.0	230300.0	0.9141010085068665	--
18	OLEIC-ACID	Root	60.0	490.0	-0.5308030545111821	--
4	OSTHOLE	Plant		610.0	-0.8328839916929487	--
4	OSTHOLE	Root				--
9	OXALIC-ACID	Root		56.0	-0.6257320951676627	--
6	OXYPEUCEDANIN	Root				--
25	P-COUMARIC-ACID	Root				--
16	P-CYMENE	Seed	10.0	160.0	-0.6939246641485881	--
16	P-CYMENE	Root		12.0	-0.5741521970368465	--
13	P-HYDROXY-BENZOIC-ACID	Root				--
13	PALMITIC-ACID	Seed	3265.0	11500.0	-0.4623187352851673	--
13	PALMITIC-ACID	Root	230.0	1885.0	-0.3122246178951473	--
2	PALMITOLEIC-ACID	Seed	270.0	1725.0	-0.25705973087302336	--
2	PALMITOLEIC-ACID	Root	20.0	165.0	-0.6440065373514919	--
11	PANTOTHENIC-ACID	Root	2.0	17.0	-0.07064284101841282	--
24	PECTIN	Root	100000.0	188000.0	0.47634247738802854	--
7	PHENYLALANINE	Root	320.0	2620.0	-0.24486513955461467	--
2	PHOSPHATIDYL-CHOLINE	Tissue Culture				--
4	PHOSPHORUS	Root	340.0	5090.0	0.2762602234661987	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	PHYLLOQUINONE	Plant		0.1	-0.7757764046604888	Booth, S. L., Suttie, J. W. 1998. Dietary intake and adequacy of vitamin K. J. Nutrition, 128(5): 785-788.
2	PHYTOSTEROLS	Root	120.0	980.0	0.18982513309541582	--
2	PIPECOLIC-ACID	Plant				--
14	POTASSIUM	Root	3000.0	46360.0	2.2392616148056423	--
31	PSORALEN	Shoot		0.8		--
31	PSORALEN	Root		0.3	-1.059299500276635	--
4	PUFA	Root	770.0	6300.0	0.4769429887938258	--
1	PYRROLIDINE	Plant				--
176	QUERCETIN	Seed				--
44	QUERCITRIN	Plant				--
1	QUINIC-ACID	Root				--
15	RIBOFLAVIN	Root	0.6	5.0	0.20252851777870476	--
2	RIBONUCLEASE	Tissue Culture				--
5	SABINENE	Seed	50.0	2000.0	-0.34880328591411414	--
5	SABINENE	Root		160.0	1.1804087973706197	--
4	SAKURANETIN	Fruit				--
44	SCOPOLETIN	Root				--
60	SELENIUM	Root	0.001	0.02	-0.3610302397132581	--
1	SERINE	Root	350.0	2865.0	-0.28029637538148783	--
1	SERINE	Plant				--
14	SHIKIMIC-ACID	Root				--
4	SILICON	Root	1.0	91.0	0.07512122132991758	--
1	SODIUM	Root	340.0	9504.0	3.912432470592931	--
5	STARCH	Root	14800.0	25200.0	-1.2153725298962108	--
8	STEARIC-ACID	Seed	285.0	1240.0	-0.5384862509397187	--
8	STEARIC-ACID	Root	10.0	80.0	-0.6926093779944673	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
12	STIGMASTEROL	Root				--
7	SUCCINIC-ACID	Root				--
14	SUCROSE	Root	60000.0	339000.0	2.183553514508668	--
14	SULFUR	Root	52.0	1635.0	-0.32129372156929786	--
6	SYRINGIC-ACID	Root				--
2	TARAXASTEROL	Shoot				--
6	TARTARIC-ACID	Root				--
23	TERPINEN-4-OL	Root		28.0	1.5987369901279187	--
2	TERPINEOL-ACETATE	Shoot		746.0		--
9	TERPINOLENE	Seed		10.0	-0.7835184536427809	--
9	TERPINOLENE	Root		1520.0	1.0	--
31	THIAMIN	Root	1.0	6.0	-0.05999907478580307	--
4	THREONINE	Root	380.0	3110.0	-0.17932410603650892	--
1	TIGLIC-ACID	Seed				--
4	TIN	Root	0.0	3.0	-1.3708687884341926	--
4	TRANS-ISOASARONE	Plant				--
29	TRYPTOPHAN	Root	110.0	900.0	0.1872455226951296	--
8	TYROSINE	Root	200.0	1640.0	-0.5969261030402144	--
22	UMBELLIFERONE	Leaf				--
3	VALINE	Root	440.0	3600.0	-0.2743936048534834	--
24	VANILLIC-ACID	Tissue Culture				--
2	VIOLAXANTHIN	Leaf				--
43	XANTHOTOXIN	Shoot		1.6	-1.3168294116235564	--
43	XANTHOTOXIN	Root		0.3	-1.0000000000000002	--
10	XYLITOL	Root				--
3	XYLOSE	Root				--
77	ZINC	Root	2.0	79.0	2.40107178994795	--