

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Daucus carota*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference 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	4830	0.6834408138650919	
10	ALPHA-AMYRIN	Root	--	--		
7	ALPHA-CAROTENE	Root	17	25		
3	ALPHA-CURCUMENE	Seed	--	--		
2	ALPHA-HUMULENE	Root	12	12	-0.6793853078287713	
5	ALPHA-IONONE	Root	--	--		
15	ALPHA-LINOLENIC-ACID	Seed	270	935	-0.31243996116568895	
11	ALPHA-PHELLANDRENE	Root	--	--		
28	ALPHA-PINENE	Root	48	48	-0.7685293324764985	
28	ALPHA-PINENE	Seed	12	1300	-0.362127214434626	
28	ALPHA-PINENE	Shoot	12	12	-0.1462517233653238	
13	ALPHA-TERPINENE	Root	28	28	-0.4450369954730677	
13	ALPHA-TERPINENE	Seed	20	40	-0.48425057209654054	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Root	28	28	-0.5462153293111578	
32	ALPHA-TOCOPHEROL	Leaf	788	788	1.545080914559651	
32	ALPHA-TOCOPHEROL	Root	4	36	1.2675004445952598	
5	ALUMINUM	Root	1	1050	0.2509044792115904	
1	AMYLASE	Tissue Culture	--	--		
1	ANTHERAXANTHIN	Leaf	--	--		
101	APIGENIN	Fruit	--	--		
12	ARACHIDONIC-ACID	Plant	--	--		
14	ARGININE	Root	430	3520	-0.36254008310749936	
2	ARSENIC	Root	0.003	1	-0.16512868037299994	
15	ASARONE	Seed	400	400		
112	ASCORBIC-ACID	Root	91	775	-0.20294910472446315	
3	ASPARTIC-ACID	Root	1370	11220	0.1651775603079552	
7	ASTRAGALIN	Seed	--	--		
10	AZULENE	Seed	--	--		
26	BERGAPTEN	Root	0.3	0.3	-0.8355891267712955	
9	BETA-AMYRIN	Root	--	--		
6	BETA-BISABOLENE	Root	116	116	-0.04387653315512357	
6	BETA-BISABOLENE	Seed	100	3500	1.4087125025983431	

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6	BETA-BISABOLENE	Shoot	38	38	-0.48536297946072016	
53	BETA-CAROTENE	Root	27	673	3.866900727382954	
2	BETA-CRYPTOXANTHIN	Root	--	--		
5	BETA-ELEMENE	Plant	--	--		
13	BETA-IONONE	Seed	300	300		
3	BETA-PHELLANDRENE	Shoot	177	177	0.14375394815958314	
13	BETA-PINENE	Root	4	4	-0.6904491320514636	
13	BETA-PINENE	Seed	50	5500	-0.02003246859166858	
13	BETA-PINENE	Shoot	44	44	-0.11801827356688235	
3	BETA-SELINENE	Seed	118	410	-1	
47	BETA-SITOSTEROL	Root	--	--		
14	BETAINE	Root	35	35	-0.3655598849684835	
35	BORNEOL	Root	--	--		
12	BORNYL-ACETATE	Plant	--	--		
12	BORNYL-ACETATE	Root	24	24	-0.5936212361618939	
4	BORON	Root	1	36	0.4418261224210795	
6	BUTYRIC-ACID	Root	--	--		
3	CADMIUM	Root	0.012	0.6	-0.25924015571777737	
102	CAFFEIC-ACID	Root	--	--		

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28	CALCIUM	Root	210	5710	-0.18539262113539057	
2	CAMPESTEROL	Root	--	--		
9	CAMPHENE	Seed	1	70	-1.3481581516889602	
41	CAMPHOR	Seed	--	--		
3	CAPRIC-ACID	Seed	1360	7065	-0.2085296804356218	
3	CAROTATOXIN	Root	--	--		
19	CARVONE	Seed	--	--		
31	CARYOPHYLLENE	Root	200	200	-0.39328066246203247	
31	CARYOPHYLLENE	Seed	134	1000	1	
8	CARYOPHYLLENE-OXIDE	Root	310	350		
8	CARYOPHYLLENE-OXIDE	Seed	310	350	0.22301376261714642	
77	CHLOROGENIC-ACID	Root	--	--		
21	CHLOROPHYLL	Plant	--	--		
1	CHOLESTEROL	Leaf	--	--		
20	CHOLINE	Root	36	36	-0.4093082994350739	
20	CHOLINE	Shoot	73	73	-0.6702245164749019	
24	CHROMIUM	Root	0.005	1.5	-0.26097057892644915	
60	CHRYSIN	Seed	--	--		
18	CINNAMIC-ACID	Tissue Culture	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	CITRAL	Seed	200	200		
23	CITRIC-ACID	Root	--	--		
2	CITRONELLYL-ACETATE	Seed	150	200		
2	COBALT	Root	0.005	0.058	-0.5439497434887988	
12	COPPER	Root	0.3	18	0.6951955719896852	
4	COSMOSIIN	Leaf	--	--		
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	655	-0.47202529956487604	
1	D-GLUCOSE	Root	80000	80000	-1	
5	DAUCOSTEROL	Root	--	--		
8	DELTA-3-CARENE	Seed	12	120	-1.1355499479153377	
7	DIOSGENIN	Root	5400	6000	0.670725254565731	
7	DIOSGENIN	Tissue Culture	5400	6000	1.4142132571168902	
7	DIPENTENE	Root	--	--		
16	ELEMICIN	Seed	2000	2000	-0.20856056956515395	

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1	EPSILON-CAROTENE	Root	--	--		
30	ESCULETIN	Leaf	--	--		
24	ETHANOL	Root	--	--		
1	ETHYLENE	Tissue Culture	--	--		
2	EUGENIN	Tissue Culture	--	--		
76	EUGENOL	Seed	7000	7000	1.3881489891384902	
13	FALCARINDIOL	Root	88	88	-0.3251129376560844	
16	FALCARINOL	Root	10	47	-0.5640524826019977	
61	FERULIC-ACID	Root	--	--		
15	FIBER	Root	10000	134000	1.0190982480192092	
15	FOLACIN	Root	0.1	1.2	-0.8480574691461189	
13	FORMIC-ACID	Plant	--	--		
8	FRUCTOSE	Root	--	--		
7	FUMARIC-ACID	Root	--	--		
1	GALACTOSE	Root	--	--		
2	GAMMA-BISABOLENE	Root	264	264		
2	GAMMA-CAROTENE	Root	--	--		
20	GAMMA-LINOLENIC-ACID	Seed	540	1870	-1.555915507552484	
11	GAMMA-TERPINENE	Root	216	216	1.409716316878462	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	GENTISIC-ACID	Tissue Culture	--	--		
35	GERANIOL	Root	10	8120	1	
35	GERANIOL	Seed	10	8120	1	
5	GERANYL-ACETATE	Shoot	265	265	0.0432946667727803	
2	GERANYL-ACETONE	Seed	300	300		
2	GERANYL-FORMATE	Seed	--	--		
8	GLUTAMIC-ACID	Root	2020	16545	0.11207718948474456	
5	GLUTAMINE	Root	--	--		
12	GLYCINE	Root	300	2455	-0.24930187596141531	
9	HCN	Root	--	--		
2	HERACLENIN	Root	--	--		
7	HISTIDINE	Root	160	1310	-0.46948976552816046	
1	INDOLE-ACETIC-ACID	Tissue Culture	--	--		
6	IRON	Root	3	300	-0.005816058993862766	
2	ISOBUTYRIC-ACID	Plant	--	--		
4	ISOCHLOROGENIC-ACID	Leaf	--	--		
3	ISOLEUCINE	Root	410	3360	-0.05718320015738177	
15	ISOPIMPINELLIN	Root	--	--		
75	KAEMPFEROL	Seed	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	LAURIC-ACID	Root	20	165	-0.6668066359861499	
7	LAURIC-ACID	Seed	1810	6280	-0.45601228711660197	
20	LECITHIN	Root	--	--		
2	LEUCINE	Root	430	3520	-0.4838244048116035	
60	LIMONENE	Root	150	150	-0.4481409382990946	
60	LIMONENE	Seed	20	1500	-0.6567320690884889	
60	LIMONENE	Shoot	26	26	-0.31520363001907625	
27	LINOLEIC-ACID	Root	670	5485	0.8807550657578334	
27	LINOLEIC-ACID	Seed	9360	43400	-0.545978106955464	
11	LITHIUM	Root	0.23	0.6		
21	LUPEOL	Root	--	--		
15	LUTEIN	Root	--	--		
78	LUTEOLIN	Plant	--	--		
5	LUTEOLIN-7-O-BETA-GLUCOSIDE	Root	100	100		
5	LUTEOLIN-7-O-BETA-GLUCOSIDE	Seed	--	--		
16	LYCOPENE	Root	80	140		
4	LYSINE	Root	400	3275	-0.4241730515578843	
65	MAGNESIUM	Root	100	1980	-0.309443282337155	
15	MALIC-ACID	Root	--	--		

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2	MALTOSE	Root	--	--		
14	MANGANESE	Root	1	62	0.19446434344005029	
3	MANNOSE	Root	--	--		
1	MERCURY	Root	0.001	0.045	-0.35028089820671393	
15	METHIONINE	Root	70	575	-0.8722163256568093	
1	METHYL-AMINE	Root	3970	3970		
2	MOLYBDENUM	Root	0.1	0.7	-0.2734124694865598	
13	MUFA	Root	80	655	-0.6889106399727899	
22	MYRCENE	Seed	10	250	-0.9408311502117752	
34	MYRICETIN	Fruit	--	--		
6	MYRISTIC-ACID	Root	10	80	-0.6449329009983664	
6	MYRISTIC-ACID	Seed	10470	36300	0.1791951760822931	
31	MYRISTICIN	Root	0.5	34		
1	MYRISTOLEIC-ACID	Seed	--	--		
3	N-HENTRIACONTANE	Seed	--	--		
1	N-NONACOSANE	Seed	--	--		
2	NEOXANTHIN	Leaf	--	--		
39	NIACIN	Root	--	--		
3	NICKEL	Root	--	2	-0.045516760058166544	

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18	OLEIC-ACID	Root	60	490	-0.5308030545111821	
18	OLEIC-ACID	Seed	55800	230300	0.9141010085068665	
4	OSTHOLE	Plant	610	610	-0.8328839916929487	
4	OSTHOLE	Root	--	--		
9	OXALIC-ACID	Root	56	56	-0.6257320951676627	
6	OXYPEUCEDANIN	Root	--	--		
25	P-COUMARIC-ACID	Root	--	--		
16	P-CYMENE	Root	12	12	-0.5741521970368465	
16	P-CYMENE	Seed	10	160	-0.6939246641485881	
13	P-HYDROXY-BENZOIC-ACID	Root	--	--		
13	PALMITIC-ACID	Root	230	1885	-0.3122246178951473	
13	PALMITIC-ACID	Seed	3265	11500	-0.4623187352851673	
2	PALMITOLEIC-ACID	Root	20	165	-0.6440065373514919	
2	PALMITOLEIC-ACID	Seed	270	1725	-0.25705973087302336	
11	PANTOTHENIC-ACID	Root	2	17	-0.07064284101841282	
24	PECTIN	Root	100000	188000	0.47634247738802854	
7	PHENYLALANINE	Root	320	2620	-0.24486513955461467	
2	PHOSPHATIDYL-CHOLINE	Tissue Culture	--	--		
4	PHOSPHORUS	Root	340	5090	0.2762602234661987	

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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	980	0.18982513309541582	
2	PIPECOLIC-ACID	Plant	--	--		
14	POTASSIUM	Root	3000	46360	2.2392616148056423	
31	PSORALEN	Root	0.3	0.3	-1.059299500276635	
31	PSORALEN	Shoot	0.8	0.8		
4	PUFA	Root	770	6300	0.4769429887938258	
1	PYRROLIDINE	Plant	--	--		
176	QUERCETIN	Seed	--	--		
44	QUERCITRIN	Plant	--	--		
1	QUINIC-ACID	Root	--	--		
15	RIBOFLAVIN	Root	0.6	5	0.20252851777870476	
2	RIBONUCLEASE	Tissue Culture	--	--		
5	SABINENE	Root	160	160	1.1804087973706197	
5	SABINENE	Seed	50	2000	-0.34880328591411414	
4	SAKURANETIN	Fruit	--	--		
44	SCOPOLETIN	Root	--	--		
60	SELENIUM	Root	0.001	0.02	-0.3610302397132581	
1	SERINE	Plant	--	--		

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1	SERINE	Root	350	2865	-0.28029637538148783	
14	SHIKIMIC-ACID	Root	--	--		
4	SILICON	Root	1	91	0.075121222132991758	
1	SODIUM	Root	340	9504	3.912432470592931	
5	STARCH	Root	14800	25200	-1.2153725298962108	
8	STEARIC-ACID	Root	10	80	-0.6926093779944673	
8	STEARIC-ACID	Seed	285	1240	-0.5384862509397187	
12	STIGMASTEROL	Root	--	--		
7	SUCCINIC-ACID	Root	--	--		
14	SUCROSE	Root	60000	339000	2.183553514508668	
14	SULFUR	Root	52	1635	-0.32129372156929786	
6	SYRINGIC-ACID	Root	--	--		
2	TARAXASTEROL	Shoot	--	--		
6	TARTARIC-ACID	Root	--	--		
23	TERPINEN-4-OL	Root	28	28	1.5987369901279187	
2	TERPINEOL-ACETATE	Shoot	746	746		
9	TERPINOLENE	Root	1520	1520	1	
9	TERPINOLENE	Seed	10	10	-0.7835184536427809	
31	THIAMIN	Root	1	6	-0.05999907478580307	

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4	THREONINE	Root	380	3110	-0.17932410603650892	
1	TIGLIC-ACID	Seed	--	--		
4	TIN	Root	--	3	-1.3708687884341926	
4	TRANS-ISOASARONE	Plant	--	--		
29	TRYPTOPHAN	Root	110	900	0.1872455226951296	
8	TYROSINE	Root	200	1640	-0.5969261030402144	
22	UMBELLIFERONE	Leaf	--	--		
3	VALINE	Root	440	3600	-0.2743936048534834	
24	VANILLIC-ACID	Tissue Culture	--	--		
2	VIOLAXANTHIN	Leaf	--	--		
43	XANTHOTOXIN	Root	0.3	0.3	-1.0000000000000002	
43	XANTHOTOXIN	Shoot	1.6	1.6	-1.3168294116235564	
10	XYLITOL	Root	--	--		
3	XYLOSE	Root	--	--		
77	ZINC	Root	2	79	2.40107178994795	