

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Petroselinum crispum*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	3-N-BUTYL-PHTHALIDE	Seed	--	--		
10	5-METHOXY-PSORALEN	Fruit	--	12	1.671258043593467	
10	5-METHOXY-PSORALEN	Leaf	10	10		
21	8-METHOXY-PSORALEN	Fruit	--	5	1.4142135623730951	Abstract (See species file)
3	ALPHA-CADINOL	Leaf	0.18	0.18	-1.2011328867275084	
11	ALPHA-PHELLANDRENE	Leaf	4.3	4.3	-0.31127192594515707	
11	ALPHA-PHELLANDRENE	Seed	0.6	210	-0.868831985294824	
11	ALPHA-PHELLANDRENE	Fruit Essent. Oil	3000	7300	-1.3339882069903475	
11	ALPHA-PHELLANDRENE	Seed Essent. Oil	--	1000	-1.1132822700487859	
28	ALPHA-PINENE	Leaf	5	5	-0.22421990066028927	
28	ALPHA-PINENE	Seed	1	31080	2.8922858120503183	
28	ALPHA-PINENE	Fruit Essent. Oil	2000	248500	2.440212578691428	
28	ALPHA-PINENE	Fruit	--	--		
28	ALPHA-PINENE	Root	--	--		
28	ALPHA-PINENE	Seed Essent. Oil	--	444000	2.321492606163716	
13	ALPHA-TERPINENE	Leaf	0.24	0.24	-0.3122383225174671	
13	ALPHA-TERPINENE	Seed Essent. Oil	--	--		
13	ALPHA-TERPINENE	Fruit Essent. Oil	--	18000	1.4059992805239898	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Leaf	2.7	2.7	-0.5855092882648406	
23	ALPHA-TERPINEOL	Seed	22	22	-0.4966224562065264	
32	ALPHA-TOCOPHEROL	Leaf	36	252	-0.27610251738330455	
5	ALUMINUM	Plant	2	22	-0.7133220257495717	
101	APIGENIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
101	APIGENIN	Tissue Culture	--	--		
4	APIIN	Seed	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
4	APIIN	Leaf	--	--		
4	APIIN	Shoot	--	--		
4	APIIN	Plant	--	--		
4	APIIN	Tissue Culture	--	--		
2	APIOL	Seed	--	34500		
2	APIOL	Fruit Essent. Oil	180000	497300		
2	APIOL	Leaf Essent. Oil	--	--		
2	APIOL	Leaf	--	--		
2	APIOL	Essential Oil	--	--		
2	APIOL	Root	--	--		
2	APIOL	Root Essent. Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	APIOL	Fruit	--	36580		
2	APIOL	Seed Essent. Oil	--	576000		
2	APIOL	Rhizome	--	--		
2	APIOL	Shoot	--	--		
20	APIOLE	Leaf	0.36	22		
20	APIOLE	Seed	19650	36580	1	
2	ARSENIC	Plant	0.01	0.21	-0.44036097158714854	
112	ASCORBIC-ACID	Plant	430	7695	1.2127858660899764	
112	ASCORBIC-ACID	Shoot	--	--		
112	ASCORBIC-ACID	Fruit	--	1220	-0.20863307434385805	
112	ASCORBIC-ACID	Leaf	--	--		
24	BENZALDEHYDE	Leaf	--	--		
26	BERGAPTEN	Root	--	--		
26	BERGAPTEN	Seed	--	--		
26	BERGAPTEN	Shoot	5	2000	1	
26	BERGAPTEN	Plant	--	990	1	
26	BERGAPTEN	Leaf	--	64	-0.5753159910149902	
26	BERGAPTEN	Tissue Culture	--	--		
26	BERGAPTEN	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	BETA-BISABOLENE	Leaf	2.76	2.76	-0.4259386179214522	
6	BETA-BISABOLENE	Seed	22	22	-0.8122766560766513	
53	BETA-CAROTENE	Plant	12	154	0.10686772072473448	
53	BETA-CAROTENE	Shoot	--	--		
5	BETA-ELEMENE	Leaf	5.4	5.4	-0.39161391430469633	
3	BETA-PHELLANDRENE	Leaf	60	530	0.8015595197817582	
3	BETA-PHELLANDRENE	Seed	43	4970	1.6370507088688995	
3	BETA-PHELLANDRENE	Fruit Essent. Oil	--	35100	-0.618205207830777	
3	BETA-PHELLANDRENE	Seed Essent. Oil	--	71000	1.8705559734598718	
5	BETA-PHENYLETHANOL	Seed	--	--		
5	BETA-PHENYLETHANOL	Fruit Essent. Oil	--	--		
13	BETA-PINENE	Leaf	2.4	2.4	-0.42558968215063736	
13	BETA-PINENE	Seed	1	26460	2.5421676332016094	
13	BETA-PINENE	Seed Essent. Oil	--	378000	1.9849640052137334	
13	BETA-PINENE	Fruit Essent. Oil	2000	203900	1.7864326694940778	
3	BETA-SELINENE	Leaf	1.68	1.68	-0.5078272560179726	
47	BETA-SITOSTEROL	Leaf	20	180	-0.9793951214818801	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
4	BORON	Plant	4	54	-0.2700616413387917	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CADMIUM	Plant	0.01	0.57	-0.5534831889233711	
102	CAFFEIC-ACID	Stem	--	--		
28	CALCIUM	Plant	1000	16850	0.34877611734080916	
28	CALCIUM	Shoot	--	1600	-0.9589707171943687	
2	CAMPESTEROL	Sprout Seedling	--	--		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
9	CAMPHENE	Leaf	0.24	0.24	-0.19260216125051532	
9	CAMPHENE	Seed	3	490	0.10432519258473769	
9	CAMPHENE	Fruit	--	--		
9	CAMPHENE	Seed Essent. Oil	--	5000	0.29045559805793825	
9	CAMPHENE	Fruit Essent. Oil	7000	20800	1.3574673725411264	
1	CARVEOL	Leaf	3.9	3.9	-1	
7	CHLORINE	Shoot	--	--		
77	CHLOROGENIC-ACID	Stem	--	--		
24	CHROMIUM	Plant	0.1	0.6	-0.8071397754932234	
23	CITRIC-ACID	Root	--	--		
2	COBALT	Plant	0.4	4.7	-0.3238737292236686	
12	COPPER	Plant	1	12	-0.22332832033423827	
8	DELTA-3-CARENE	Leaf	0.12	0.12	-0.49033769755843665	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	DELTA-CADINENE	Leaf	1.38	1.38	-0.458077395302066	
9	DELTA-CADINENE	Seed	109	109		
1	DELTA-CADINOL	Leaf	--	--		
6	DILLAPIOL	Fruit Essent. Oil	--	37000		
2	DIMETHYL-SULFIDE	Leaf	--	--		
16	ELEMICIN	Leaf	18	18	-0.6965246951674532	
16	ELEMICIN	Seed	821	821	-1.10707303552368	
16	ELEMICIN	Fruit Essent. Oil	--	42700		
10	ERIODICTYOL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
10	ERIODICTYOL	Tissue Culture	--	--		
12	ESTRAGOLE	Leaf	1.6	1.6	-0.8859248040447191	
24	ETHANOL	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
24	ETHANOL	Leaf	--	--		
13	FALCARINDIOL	Root	--	--		
16	FALCARINOL	Root	--	10	-0.8410871090127134	
3	FALCARINONE	Root	--	15	0.9999999999999998	
15	FIBER	Plant	12000	202464	-0.1503987970331505	
15	FOLACIN	Plant	2	17	-0.4558411287938474	USDA's Ag Handbook 8 and sequelae)
7	FUMARIC-ACID	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	GAMMA-TERPINENE	Leaf	0.42	0.42	-0.37111331477411363	
11	GAMMA-TERPINENE	Seed	3	1120	-0.6266101249241767	
11	GAMMA-TERPINENE	Seed Essent. Oil	--	5000	-1.0642536337764155	
11	GAMMA-TERPINENE	Fruit Essent. Oil	16000	36300	1.3597633205634474	
35	GERANIOL	Leaf	1.26	1.26	-0.22989043119456826	
2	GERMACRENE-D	Leaf	6.9	6.9	-0.5194683777682332	
4	GLYCOLIC-ACID	Root	--	--		
4	GLYCOLIC-ACID	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
25	IMPERATORIN	Fruit	1	6	-0.6700467093873878	
25	IMPERATORIN	Leaf	0.53	0.53		
8	INOSITOL	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	IRON	Plant	1.3	17	-0.7182830071194793	
6	IRON	Shoot	--	--		
8	ISOIMPERATORIN	Fruit	--	6	-0.4133836909571628	
8	ISOIMPERATORIN	Root	--	500		
8	ISOIMPERATORIN	Leaf	--	--		
15	ISOPIMPINELLIN	Shoot	0.3	79	-1	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	ISOPIMPINELLIN	Leaf	1.8	28		
15	ISOPIMPINELLIN	Tissue Culture	--	--		
15	ISOPIMPINELLIN	Plant	--	--		
15	ISOPIMPINELLIN	Root	--	--		
15	ISOPIMPINELLIN	Fruit	--	--		
75	KAEMPFEROL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
60	LIMONENE	Leaf	16	16	-0.4309522084568708	
60	LIMONENE	Seed	6	1470	-0.6588822047761124	
60	LIMONENE	Seed Essent. Oil	--	--		
60	LIMONENE	Fruit Essent. Oil	10000	60100	-1.071797856637218	
53	LINALOOL	Leaf	0.12	0.12	-0.647360756009463	
11	LITHIUM	Plant	0.76	0.792	-1	
15	LUTEIN	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
15	LUTEIN	Shoot	--	--		
4	LYSINE	Plant	2190	18724	1.068243764451732	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Plant	250	3160	-0.28134422251463814	
15	MALIC-ACID	Root	--	--		
14	MANGANESE	Plant	0.5	6	-0.6519018200346285	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	MERCURY	Plant	0.004	0.37	-0.4834929186399312	
2	METHANOL	Leaf	--	--		
15	METHIONINE	Plant	150	1282	-0.36062849626303595	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	MOLYBDENUM	Plant	0.1	14	1.719900856164318	
3	MUCILAGE	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
22	MYRCENE	Leaf	18	255	-0.08065814342714553	
22	MYRCENE	Seed	168	1680	-0.11187948982801763	
22	MYRCENE	Fruit Essent. Oil	--	5200	-1.2495192038656824	
22	MYRCENE	Seed Essent. Oil	--	24000	-0.4688443199240226	
6	MYRISTIC-ACID	Seed	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
31	MYRISTICIN	Leaf	131	960	-0.31201750441513737	
31	MYRISTICIN	Plant	425	2550	1	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
31	MYRISTICIN	Seed	14785	19800	1.3798434351573292	
31	MYRISTICIN	Leaf Essent. Oil	--	141176		
31	MYRISTICIN	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
31	MYRISTICIN	Fruit Essent. Oil	10000	7500000		
31	MYRISTICIN	Root	--	--		
31	MYRISTICIN	Root Essent. Oil	--	--		
31	MYRISTICIN	Seed Essent. Oil	--	108000	-1	
56	NARINGENIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
56	NARINGENIN	Tissue Culture	--	--		
2	NEOXANTHIN	Shoot	--	--		
4	NERAL	Leaf	2.9	2.9	-0.3859763862907193	
39	NIACIN	Plant	7	87	0.1441247016236409	
3	NICKEL	Plant	0.1	8.5	1.3678940092779688	
2	NICOTINAMIDE	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
11	NICOTINIC-ACID	Sprout Seedling	--	--		
11	NICOTINIC-ACID	Tissue Culture	--	--		
18	OLEIC-ACID	Seed	53000	53000	-0.5434090926367003	
18	OLEIC-ACID	Fruit	--	--		
15	OSTHOL	Fruit Essent. Oil	--	56000		
4	OSTHOLE	Plant	840	3975	1.4062541963603976	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
6	OXYPEUCEDANIN	Fruit	7	26		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	OXYPEUCEDANIN	Leaf	100	100	-1	
2	OXYPEUCEDANIN-HYDRATE	Leaf	--	--		
25	P-COUMARIC-ACID	Stem	--	--		
16	P-CYMENE	Leaf	1.44	1.44	-0.39891714087745833	
16	P-CYMENE	Seed	34	34	-0.7268387752889803	
16	P-CYMENE	Fruit Essent. Oil	--	28000	0.8742799553144132	
2	P-METHYL-ACETOPHENONE	Leaf	--	--		
13	PALMITIC-ACID	Seed	5000	5000	-0.5964348259626931	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
13	PALMITIC-ACID	Fruit Essent. Oil	--	5000		
11	PANTOTHENIC-ACID	Plant	3	26	-0.2201468605238584	USDA's Ag Handbook 8 and sequelae)
1	PENTATRIACONTANE	Leaf	0.18	0.18		
6	PHENETHYL-ALCOHOL	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
2	PHENYL-ACETALDEHYDE	Leaf	--	--		
4	PHOSPHORUS	Plant	324	4100	0.2457194116609105	
4	PHOSPHORUS	Shoot	--	--		
5	PHYLLOQUINONE	Leaf	--	5.48	0.7535864349153043	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	PHYTOSTEROLS	Leaf	50	450	-0.6806805153514085	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
14	POTASSIUM	Plant	4425	53833	2.23414657121527	
43	PROTocatechuic-ACID	Stem	--	--		
31	PSORALEN	Fruit	1	10	-0.4628284057663575	
31	PSORALEN	Leaf	2.5	33	-0.7027180129457828	
31	PSORALEN	Root	--	--		
31	PSORALEN	Tissue Culture	--	--		
176	QUERCETIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
176	QUERCETIN	Tissue Culture	--	--		
176	QUERCETIN	Leaf	--	--		
1	QUINIC-ACID	Root	--	--		
15	RIBOFLAVIN	Plant	1	13.5	0.14552068492219167	
57	ROSMARINIC-ACID	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
87	RUTIN	Leaf	30000	30000	0.8579223754965293	
87	RUTIN	Shoot	--	44480	2.746754959397039	Varnaite, R. 1988. Rutin Content in Capsicum, Capsella, Urtica, Primula, Lepidium, Lactuca, Brassica, Anethum, Beta, Petroselinum, Allium Genera Representatives. Liet Tsr Mokslu Akad Darb Ser C, 4: 29-32.
5	SABINENE	Leaf	0.54	0.54	-0.2608648090275	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SABINENE	Seed	1	1190	-0.3863132836596433	
5	SABINENE	Fruit Essent. Oil	--	10400	-0.6587030409909505	
5	SABINENE	Seed Essent. Oil	--	17000	-0.4094438152245345	
7	SALICYLATES	Leaf	0.8	4	-0.5683122203043024	
1	SEDANENOLIDE	Seed	--	--		
60	SELENIUM	Plant	0.001	0.021	-0.4265847116409652	
14	SHIKIMIC-ACID	Root	--	--		
4	SILICON	Leaf	60	1425	3.8252310014499527	ACTA AGRIC SCAND SUPPL 22: 1980
4	SILICON	Plant	0.3	3.6	-0.5244328221889293	
3	SILVER	Plant	0.19	0.2		
1	SODIUM	Plant	404	5110	-0.021207392137970946	
8	STEARIC-ACID	Seed	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
12	STIGMASTEROL	Sprout Seedling	20	180	-0.8172423753879353	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
7	SUCCINIC-ACID	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
7	SUCCINIC-ACID	Root	--	--		
14	SULFUR	Plant	380	4700	0.35776302805165466	
6	TARTARIC-ACID	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	TAURINE	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
23	TERPINEN-4-OL	Leaf	0.72	0.72	-0.3399114114851954	
9	TERPINOLENE	Leaf	33	105	-0.09833783481282221	
9	TERPINOLENE	Seed	6	700	-0.1567036907285562	
9	TERPINOLENE	Fruit Essent. Oil	10000	50500	1.4139927352702726	
31	THIAMIN	Plant	--	7	-0.050998827890408445	
71	THYMOL	Leaf	--	32	-0.4026253885663395	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	TIN	Plant	1	14	-0.4656082470551236	
1	TOLUENE	Leaf	--	--		
4	TRANS-2-HEXENAL	Leaf	12.5	12.5		
1	TRANS-2-HEXENOL	Leaf	0.2	0.2		
15	TRIGONELLINE	Tissue Culture	--	--		
22	UMBELLIFERONE	Leaf	--	--		
2	VIOLAXANTHIN	Shoot	--	--		
11	VIT-B2	Shoot	--	--		
11	VIT-B2	Tissue Culture	--	--		
43	XANTHOTOXIN	Shoot	3	289	1.1050356026721566	
43	XANTHOTOXIN	Leaf	3	15	-1	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
43	XANTHOTOXIN	Tissue Culture	--	--		
43	XANTHOTOXIN	Plant	--	--		
43	XANTHOTOXIN	Root	--	--		
43	XANTHOTOXIN	Fruit	--	--		
77	ZINC	Plant	--	--		