

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Artemisia dracunculus*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
67	1,8-CINEOLE	Shoot	50	500	-0.12842761628622745	
1	6,7-DIMETHOXYCOUMARIN	Shoot	--	--		Wealth of India.
3	7-METHOXYCOUMARIN	Shoot	--	--		Wealth of India.
32	AESCULETIN	Shoot	--	--		
3	ALANINE	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
1	ALLO-OCIMENE	Shoot	--	--		
1	ALLO-OCIMENE	Essential Oil	--	--		
3	ALPHA-CEDRENE	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
11	ALPHA-PHELLANDRENE	Plant	--	--		
11	ALPHA-PHELLANDRENE	Essential Oil	--	--		
11	ALPHA-PHELLANDRENE	Leaf Essent. Oil	--	--		
28	ALPHA-PINENE	Shoot	100	1000	-0.04771656404793942	
28	ALPHA-PINENE	Leaf Essent. Oil	--	--		
28	ALPHA-PINENE	Root Essent. Oil	--	--		
28	ALPHA-PINENE	Essential Oil	--	10000	-0.47207505752571344	
36	ANETHOLE	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
36	ANETHOLE	Essential Oil	--	--		
7	ANISALDEHYDE	Essential Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	ANISIC-ACID	Shoot	8	80		
6	ANISIC-ACID	Essential Oil	--	--		
4	ANISOLE	Shoot	10	100		
101	APIGENIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
14	ARGININE	Leaf	--	--		
14	ARGININE	Root	--	--		
112	ASCORBIC-ACID	Leaf	588	588	-0.3893611896312945	
2	ASPARAGINE	Leaf	--	--		
2	ASPARAGINE	Root	--	--		
3	ASPARTIC-ACID	Leaf	--	--		
3	ASPARTIC-ACID	Root	--	--		
53	BETA-CAROTENE	Leaf	2	74	-0.8156731064057301	
2	BETA-MYRCENE	Shoot	--	--		
3	BETA-PHELLANDRENE	Shoot	100	1070	4.04416490771926	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
13	BETA-PINENE	Shoot	--	--		
13	BETA-PINENE	Leaf Essent. Oil	--	--		
13	BETA-PINENE	Essential Oil	--	--		
47	BETA-SITOSTEROL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
47	BETA-SITOSTEROL	Shoot	--	--		
47	BETA-SITOSTEROL	Leaf	--	--		
6	BUTYRIC-ACID	Plant	--	--		
102	CAFFEIC-ACID	Shoot	--	--		
102	CAFFEIC-ACID	Leaf	7640	7640	0.34397264551688544	
28	CALCIUM	Plant	11390	12340	-0.1336433279618558	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	CAMPESTEROL	Shoot	--	30	1	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	--	--		
9	CAMPHENE	Leaf Essent. Oil	--	--		
9	CAMPHENE	Essential Oil	--	--		
41	CAMPHOR	Shoot	20	200	-0.14976698900024374	
41	CAMPHOR	Essential Oil	--	--		
41	CAMPHOR	Leaf Essent. Oil	--	20000	-0.7174269876896714	
2	CAPILLARIN	Shoot	920	920		
5	CAPILLIN	Root	--	--		
5	CAPILLIN	Root Essent. Oil	--	--		
19	CARVONE	Plant	--	--		Stitt, Paul. Why George should eat broccoli.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	CHLOROGENIC-ACID	Shoot	--	--		
7	CHRYSOERIOL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
1	CINNAMIC-ACID-ETHYL-ESTER	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
10	CIRSILINEOL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
3	CIS-OCIMENE	Shoot	--	--		
3	CIS-OCIMENE	Shoot Essent. Oil	--	--		
3	CIS-OCIMENE	Essential Oil	--	--		
53	CITRAL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
12	COPPER	Plant	7	7	-0.7770348996753241	USDA's Ag Handbook 8 and sequelae)
9	COSTUNOLIDE	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
57	COUMARIN	Plant	--	--		
5	DEHYDROFALCARINDIOL	Root	--	--		
1	DI-O-CAFFEOYL-QUINIC-ACID	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
2	DIHYDROCOUMARIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
16	ELEMICIN	Essential Oil	--	--		
16	ELEMICIN	Shoot	--	18.4	1	
10	ERIODICTYOL	Shoot	--	75	-1	
30	ESCULETIN	Plant	--	--		
30	ESCULETIN	Shoot	--	--		Wealth of India.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	ESTRAGOLE	Shoot	100	7763	1.3723679658914105	
12	ESTRAGOLE	Shoot Essent. Oil	750000	814000		
12	ESTRAGOLE	Essential Oil	100000	776300	0.4414359501836876	
12	ESTRAGOLE	Leaf Essent. Oil	--	690000	0.31496006507489993	
12	ESTRAGOLE	Seed Essent. Oil	--	650000	1.2260811936910665	
12	ESTRAGOLE	Root Essent. Oil	--	--		
12	ESTRAGOLE	Leaf	--	--		
76	EUGENOL	Shoot	--	--		
76	EUGENOL	Essential Oil	--	--		
76	EUGENOL	Shoot Essent. Oil	--	--		
5	EUGENOL-METHYL-ETHER	Shoot	--	--		
5	EUGENOL-METHYL-ETHER	Essential Oil	--	5300	-0.5830399519329805	
5	EUGENOL-METHYL-ETHER	Shoot Essent. Oil	--	--		
61	FERULIC-ACID	Leaf	38	38	2.436082828712669	
15	FIBER	Plant	74000	80000	-1.0558199017143965	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	FRUCTOSE	Leaf	--	--		
8	FRUCTOSE	Root	--	--		
22	GABA	Shoot	--	--		
62	GALLIC-ACID	Plant	--	--		Stitt, Paul. Why George should eat broccoli.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	GAMMA-AMINOBUTYRIC-ACID	Root	--	--		
22	GAMMA-AMINOBUTYRIC-ACID	Leaf	--	--		
11	GAMMA-TERPINENE	Shoot	105	1040	0.32423748484074105	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
11	GAMMA-TERPINENE	Essential Oil	--	56900	-0.04515870825045456	
8	GENTISIC-ACID	Leaf	150	150	1	
35	GERANIOL	Shoot	--	--		
35	GERANIOL	Shoot Essent. Oil	--	--		
7	GLUCOSE	Leaf	--	--		
7	GLUCOSE	Root	--	--		
8	GLUTAMIC-ACID	Shoot	--	--		
8	GLUTAMIC-ACID	Root	--	--		
8	GLUTAMIC-ACID	Leaf	--	--		
5	GLUTAMINE	Shoot	--	--		
5	GLUTAMINE	Leaf	--	--		
5	GLUTAMINE	Root	--	--		
12	GLYCINE	Shoot	--	--		
12	GLYCINE	Root	--	--		
12	GLYCINE	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	HERNIARIN	Leaf	--	--		
12	HERNIARIN	Shoot	--	--		
12	HERNIARIN	Essential Oil	--	--		
12	HERNIARIN	Plant	--	--		
8	HESPERETIN	Shoot	--	75		
7	HISPIDULIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
30	HYPEROSIDE	Shoot	--	--		
6	IRON	Plant	320	350	-0.3261303905390022	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
16	ISOEUGENOL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
5	ISOFRAXIDIN	Shoot	--	--		
11	ISORHAMNETIN	Plant	7	7		Stitt, Paul. Why George should eat broccoli.
4	ISOVITEXIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
2	LEUCINE	Shoot	--	--		
2	LEUCINE	Root	--	--		
2	LEUCINE	Leaf	--	--		
60	LIMONENE	Shoot	25	270	-0.19099565776190747	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
60	LIMONENE	Essential Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Root Essent. Oil	--	--		
53	LINALOOL	Shoot Essent. Oil	--	--		
53	LINALOOL	Essential Oil	--	--		
53	LINALOOL	Leaf Essent. Oil	--	--		
78	LUTEOLIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
4	LYSINE	Shoot	--	--		
4	LYSINE	Root	--	--		
4	LYSINE	Leaf	--	--		
65	MAGNESIUM	Plant	3470	3470	-0.1851096725134359	
2	MALTOSE	Leaf	1490	4000		
14	MANGANESE	Plant	80	80	-0.1215300451124085	USDA's Ag Handbook 8 and sequelae)
63	MENTHOL	Shoot	50	500	0.10999266642586884	
63	MENTHOL	Essential Oil	--	--		
30	MENTHONE	Shoot	--	--		
30	MENTHONE	Essential Oil	--	--		
6	METHYL-CHAVICOL	Plant	172	7000	0.4586478149797617	
20	METHYL-EUGENOL	Plant	290	2900	2.732417724171957	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
15	METHYL-ISOEUGENOL	Shoot	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	METHYL-ISOEUGENOL	Essential Oil	--	--		
22	MYRCENE	Shoot	80	1000	0.799029445609138	
22	MYRCENE	Essential Oil	--	--		
3	N-HENTRIACONTANE	Shoot	--	--		
56	NARINGENIN	Shoot	44	97	1	
10	NEROL	Shoot	670	6700	3.4616488061589012	
10	NEROL	Leaf Essent. Oil	--	670000	1	
11	NEROLIDOL	Shoot	--	238	0.31301240869615476	
39	NIACIN	Plant	90	90	0.18616654712916966	USDA's Ag Handbook 8 and sequelae)
6	O-CRESOL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
2	OCIMENE	Shoot Essent. Oil	--	--		
2	OCIMENE	Essential Oil	--	--		
18	OLEIC-ACID	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
25	P-COUMARIC-ACID	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
8	P-CRESOL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
16	P-CYMENE	Shoot	--	--		
16	P-CYMENE	Essential Oil	--	24700	-0.4294696002319138	
13	P-HYDROXY-BENZOIC-ACID	Leaf	14	14	-0.6391623440007327	
2	P-METHOXYCINNAMALDEHYDE	Seed	45	450		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	P-METHOXYCINNAMALDEHYDE	Shoot	5	450		
2	P-METHOXYCINNAMALDEHYDE	Shoot Essent. Oil	--	6000		
2	P-METHOXYCINNAMALDEHYDE	Seed Essent. Oil	--	45000		
2	P-METHOXYCINNAMALDEHYDE	Leaf Essent. Oil	5000	45000		
2	P-METHOXYCINNAMALDEHYDE	Essential Oil	--	--		
2	PECTOLINARIGENIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
4	PHELLANDRENE	Shoot Essent. Oil	--	--		
26	PHENOL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
7	PHENYLALANINE	Root	--	--		
8	PHLOROGLUCINOL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
4	PHOSPHORUS	Plant	3130	3391	-0.09498138262187504	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	PHYTOSTEROLS	Plant	89	810	-0.5460622792095707	
9	PINOCEMBRIN	Shoot	--	--		
14	POTASSIUM	Plant	30020	32719	0.7616746965990568	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
43	PROTOCATECHUIC-ACID	Leaf	3	17	-0.8777778451667783	
176	QUERCETIN	Shoot	--	--		
2	QUERCETIN-3'-METHYLETHER	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
2	QUERCETIN-3-O-BETA-D-GLUCOSIDE	Plant	--	--		Stitt, Paul. Why George should eat broccoli.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	RHAMNETIN	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
15	RIBOFLAVIN	Plant	13	14	0.18036366581905444	USDA's Ag Handbook 8 and sequelae)
57	ROSMARINIC-ACID	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
87	RUTIN	Shoot	100	560	-0.5313186017977898	
87	RUTIN	Leaf	--	--		
5	SABINENE	Shoot	370	3700	3.643649749310963	
7	SALICYLATES	Leaf	35	350	0.1847218753406517	
34	SALICYLIC-ACID	Leaf	3	3	-1	
2	SCOPARIN	Leaf	--	--		
22	SCOPARONE	Shoot	8	8		
44	SCOPOLETIN	Shoot	--	--		
44	SCOPOLETIN	Leaf	--	--		
44	SCOPOLETIN	Plant	--	--		
1	SERINE	Shoot	--	--		
1	SERINE	Root	--	--		
1	SERINE	Leaf	--	--		
9	SINAPIC-ACID	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
1	SODIUM	Plant	620	620	-0.2697571581103508	
10	SQUALENE	Plant	--	--		Stitt, Paul. Why George should eat broccoli.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	STIGMASTEROL	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
14	SUCROSE	Leaf	--	--		
14	SUCROSE	Root	--	--		
6	SYRINGIC-ACID	Leaf	8	8		
35	TANNIN	Plant	--	--		
31	THIAMIN	Plant	2	3	-0.3909910138264638	
17	THUJONE	Shoot	60	600	1.3555286119343917	
17	THUJONE	Leaf Essent. Oil	--	60000		
8	TRANS-ANETHOLE	Shoot	100	10000	1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	TYROSINE	Shoot	--	--		
8	TYROSINE	Root	--	--		
8	TYROSINE	Leaf	--	--		
22	UMBELLIFERONE	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
3	VALINE	Leaf	--	--		
3	VALINE	Root	--	--		
24	VANILLIC-ACID	Leaf	18	18	0.8117220703723087	
3	XYLOSE	Leaf	--	--		
3	XYLOSE	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Plant	--	--		