

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
(-)-THUJONE	0	Essential Oil	not available	not available	not available	Duke, 1992 *
(-)-THUJONE	0	Plant	2500.0	13000.0	not available	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1,8-CINEOL	0	Essential Oil	73000.0	217000.0	1.91	Duke, 1992 *
1,8-CINEOL	0	Leaf	not available	not available	not available	Duke, 1992 *
1,8-CINEOL	0	Leaf Essent. Oil	91000.0	357000.0	1.94	Duke, 1992 *
1,8-CINEOL	0	Et	not available	50000.0	not available	Duke, 1992 *
1,8-CINEOLE	67	Plant	390.0	6288.0	1.20	Duke, 1992 *
1,8-CINEOLE-SYNTETASE	0	Leaf	not available	not available	not available	Duke, 1992 *
1-OCTEN-3-OL	0	Plant	not available	not available	not available	Duke, 1992 *
2-ALPHA,3-ALPHA-DIHYDROXY-OLEAN-12-EN-28-OIC-ACID	0	Leaf	not available	not available	not available	Duke, 1992 *
2-ALPHA-HYDROXY-3-OXO-OLEAN-12-EN-28-OIC-ACID	0	Leaf	not available	17.0	not available	Duke, 1992 *
2-AMINO-ADIPIC-ACID	0	Shoot	not available	1.6	not available	Duke, 1992 *
2-METHYL-3-METHYLENE-5-HEPTANE	0	Leaf	50.0	280.0	not available	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2-METHYL-3-METHYLENE-HEPT-CIS-5-ENE	0	Leaf	40.0	224.0	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2-METHYL-3-METHYLENE-HEPT-CIS-5-ENE	0	Leaf Essent. Oil	not available	8000.0	not available	Duke, 1992 *
2-METHYL-3-METHYLENE-HEPT-TRANS-5-ENE	0	Leaf	5.0	28.0	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2-METHYL-3-METHYLENE-HEPT-TRANS-5-ENE	0	Leaf Essent. Oil	not available	1000.0	not available	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
3-CARENE	0	Plant	not available	not available	not available	Duke, 1992 *
3-EPOLEANOLIC-ACID	0	Leaf	not available	1.4	not available	Duke, 1992 *
3-ISOTHUJONE	2	Leaf	not available	not available	not available	Duke, 1992 *
5-METHOXY SALVIGENIN	0	Leaf	not available	not available	not available	Duke, 1992 *
6,7-DIMETHOXY-ROSMANOL	0	Shoot	not available	2.0	not available	Duke, 1992 *
6-METHOXY-GENKWANIN	0	Plant	not available	not available	not available	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
6-METHOXYGENKWANIN-7-METHYL-ETHER	0	Plant	not available	not available	not available	Duke, 1992 *
6-METHOXYLUTEOLIN	0	Plant	not available	not available	not available	Duke, 1992 *
6-METHOXYLUTEOLIN-7-METHYL-ETHER	0	Leaf	not available	not available	not available	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
6-METHOXYLUTEOLIN-7-METHYL-ETHER	0	Plant	not available	not available	not available	Duke, 1992 *
7-METHOXY-ROSMANOL	0	Shoot	not available	2.0	-1.00	Duke, 1992 *
7-O-ACETYL-HORMINONE	0	Root	not available	not available	not available	Duke, 1992 *
ACETO-HYDROXY-ROYLEANONE	0	Plant	not available	not available	not available	Duke, 1992 *
ALANINE	3	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
ALLO-AROMADENDRENE	0	Essential Oil	not available	1800.0	-1.00	Duke, 1992 *
ALLO-AROMADENDRENE	0	Leaf	15.0	84.0	-0.18	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
ALPHA-AMYRIN	10	Leaf	not available	1800.0	not available	Duke, 1992 *
ALPHA-AMYRIN	10	Plant	not available	not available	not available	Duke, 1992 *
ALPHA-BETA-THUJONE	0	Essential Oil	not available	347000.0	not available	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
ALPHA-CADINOL	3	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
ALPHA-CEDRENE	3	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
ALPHA-CEDRENE	3	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
ALPHA-COPAENE	0	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
ALPHA-COROCALENE	0	Plant	not available	not available	not available	Duke, 1992 *
ALPHA-GURJUNENE	0	Plant	not available	not available	not available	Duke, 1992 *
ALPHA-HUMULENE	2	Essential Oil	not available	19300.0	-0.31	Duke, 1992 *
ALPHA-HUMULENE	2	Leaf	110.0	616.0	0.58	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
ALPHA-HUMULENE	2	Leaf Essent. Oil	not available	29000.0	0.26	Duke, 1992 *
ALPHA-HUMULENE	2	Et	not available	21000.0	not available	Duke, 1992 *
ALPHA-MUROLENE	0	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
ALPHA-OLEANOLIC-ACID	0	Plant	not available	not available	not available	Duke, 1992 *
ALPHA-PHELLANDRENE	11	Essential Oil	not available	not available	not available	Duke, 1992 *
ALPHA-PHELLANDRENE	11	Leaf	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
ALPHA-PHELLANDRENE	11	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
ALPHA-PINENE	28	Essential Oil	11700.0	40100.0	-0.21	Duke, 1992 *
ALPHA-PINENE	28	Leaf Essent. Oil	35000.0	55000.0	-0.45	Duke, 1992 *
ALPHA-PINENE	28	Plant	7.0	1540.0	0.61	Duke, 1992 *
ALPHA-PINENE	28	Et	not available	35000.0	1.00	Duke, 1992 *
ALPHA-TERPINENE	13	Essential Oil	not available	11200.0	-0.46	Duke, 1992 *
ALPHA-TERPINENE	13	Leaf	10.0	56.0	-0.28	Duke, 1992 *
ALPHA-TERPINENE	13	Leaf Essent. Oil	not available	2000.0	-0.58	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
ALPHA-TERPINENE	13	Et	not available	1000.0	not available	Duke, 1992 *
ALPHA-TERPINEOL	23	Essential Oil	not available	3700.0	-0.61	Duke, 1992 *
ALPHA-TERPINEOL	23	Leaf	5.0	910.0	1.01	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
ALPHA-TERPINEOL	23	Leaf Essent. Oil	not available	1000.0	-0.84	Duke, 1992 *
ALPHA-TERPINEOL ACETATE	0	Et	not available	9000.0	not available	Duke, 1992 *
ALPHA-THUJENE	0	Essential Oil	not available	1200.0	-0.39	Duke, 1992 *
ALPHA-THUJENE	0	Leaf	0.0	386.0	3.25	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
ALPHA-THUJENE	0	Leaf Essent. Oil	not available	13800.0	-0.42	Duke, 1992 *
ALPHA-THUJONE	6	Essential Oil	73300.0	408500.0	not available	Duke, 1992 *
ALPHA-THUJONE	6	Leaf	200.0	10172.0	2.58	Duke, 1992 *
ALPHA-THUJONE	6	Leaf Essent. Oil	200000.0	363300.0	not available	Duke, 1992 *
ALPHA-THUJONE	6	Et	not available	206000.0	not available	Duke, 1992 *
ALPHA-URSOLIC-ACID	0	Plant	not available	not available	not available	Duke, 1992 *
ALUMINUM	5	Leaf	18.0	115.0	-0.66	Duke, 1992 *
APIGENIN	101	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
APIGENIN	101	Shoot	not available	not available	not available	Duke, 1992 *
APIGENIN-7-O-BETA-D-GLUCURONYL PYRANOSIDE	0	Plant	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
APIGENIN-7-O-BETA-D-GLUCURONYL PYRANOSIDE	0	Shoot	not available	not available	not available	Duke, 1992 *
AROMADENDRENE	3	Plant	not available	not available	not available	Duke, 1992 *
ASCORBIC-ACID	112	Leaf	55.0	350.0	-0.41	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
ASH	0	Leaf	13659.0	87000.0	-0.56	Duke, 1992 *
ASPARAGINE	2	Plant	not available	not available	not available	Duke, 1992 *
AVENASTEROL	0	Fruit	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
AVENASTEROL	0	Fruit Essent. Oil	not available	not available	not available	Duke, 1992 *
BETA-AMYRIN	9	Leaf	not available	1000.0	not available	Duke, 1992 *
BETA-AMYRIN	9	Plant	not available	not available	not available	Duke, 1992 *
BETA-BOURBONENE	0	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
BETA-CAROTENE	53	Leaf	6.0	39.0	-0.97	Duke, 1992 *
BETA-CARYOPHYLLENE	0	Essential Oil	18900.0	66000.0	-0.22	Duke, 1992 *
BETA-CARYOPHYLLENE	0	Leaf	500.0	760.0	0.04	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
BETA-CARYOPHYLLENE	0	Leaf Essent. Oil	not available	11000.0	-0.34	Duke, 1992 *
BETA-CARYOPHYLLENE	0	Et	not available	41000.0	not available	Duke, 1992 *
BETA-COPAENE	0	Plant	not available	not available	not available	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
BETA-MYRCENE	2	Essential Oil	not available	not available	not available	Duke, 1992 *
BETA-OLEANOLIC-ACID	0	Plant	not available	not available	not available	Duke, 1992 *
BETA-PHELLANDRENE	3	Leaf	5.0	28.0	-0.40	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
BETA-PHELLANDRENE	3	Leaf Essent. Oil	not available	1000.0	-0.83	Duke, 1992 *
BETA-PINENE	13	Essential Oil	11300.0	26100.0	-0.15	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
BETA-PINENE	13	Leaf Essent. Oil	21000.0	55000.0	1.62	Duke, 1992 *
BETA-PINENE	13	Plant	20.0	1540.0	1.23	Duke, 1992 *
BETA-PINENE	13	Et	not available	18000.0	not available	Duke, 1992 *
BETA-SITOSTEROL	47	Fruit Essent. Oil	not available	not available	not available	Duke, 1992 *
BETA-SITOSTEROL	47	Leaf	5.0	2449.0	0.24	Duke, 1992 *
BETA-SITOSTEROL	47	Root	not available	not available	not available	Duke, 1992 *
BETA-SITOSTEROL	47	Sprout Seedling	not available	not available	not available	Duke, 1992 *
BETA-SITOSTEROL	47	Stem	not available	1214.0	1.09	Duke, 1992 *
BETA-SITOSTEROL-D-GLUCOSIDE	6	Seed	not available	not available	not available	Duke, 1992 *
BETA-THUJONE	5	Essential Oil	52300.0	142500.0	not available	Duke, 1992 *
BETA-THUJONE	5	Leaf	200.0	9968.0	2.76	Duke, 1992 *
BETA-THUJONE	5	Leaf Essent. Oil	174000.0	356000.0	not available	Duke, 1992 *
BETA-THUJONE	5	Et	not available	151000.0	not available	Duke, 1992 *
BETA-URSOLIC-ACID	0	Plant	not available	not available	not available	Duke, 1992 *
BETULIN	13	Leaf	not available	15.0	-0.48	Duke, 1992 *
BORNEOL	35	Essential Oil	19700.0	156000.0	0.63	Duke, 1992 *
BORNEOL	35	Leaf Essent. Oil	16000.0	250000.0	2.73	Duke, 1992 *
BORNEOL	35	Shoot	not available	7000.0	6.37	Duke, 1992 *
BORNEOL	35	Et	not available	79000.0	not available	Duke, 1992 *
BORNEOL-ACETATE	0	Essential Oil	17900.0	59000.0	-0.13	Duke, 1992 *
BORNEOL-ACETATE	0	Leaf Essent. Oil	1000.0	63500.0	-0.03	Duke, 1992 *
BORNEOL-ACETATE	0	Et	not available	26000.0	not available	Duke, 1992 *
BORNYL-ACETATE	12	Shoot	5.0	1780.0	2.55	Duke, 1992 *
BORON	4	Leaf	25.0	41.0	-0.55	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron).

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
CAFFEIC-ACID	102	Inflorescence	not available	not available	not available	Duke, 1992 *
CAFFEIC-ACID	102	Shoot	not available	not available	not available	Duke, 1992 *
CALAMENE	0	Plant	5.0	28.0	1.00	Duke, 1992 *
CALCIUM	28	Leaf	1696.0	10800.0	-0.52	Duke, 1992 *
CAMPESTEROL	2	Fruit	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
CAMPESTEROL	2	Fruit Essent. Oil	not available	not available	not available	Duke, 1992 *
CAMPESTEROL	2	Leaf	not available	120.0	-0.20	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
CAMPHENENE	9	Essential Oil	30200.0	60700.0	1.13	Duke, 1992 *
CAMPHENENE	9	Leaf	20.0	18592.0	6.83	Duke, 1992 *
CAMPHENENE	9	Leaf Essent. Oil	28000.0	66400.0	1.48	Duke, 1992 *
CAMPHENENE	9	Et	not available	47000.0	not available	Duke, 1992 *
CAMPHOR	41	Essential Oil	76000.0	305000.0	0.54	Duke, 1992 *
CAMPHOR	41	Leaf	0.0	9324.0	-0.04	Duke, 1992 *
CAMPHOR	41	Leaf Essent. Oil	44000.0	458000.0	2.01	Duke, 1992 *
CAMPHOR	41	Pericarp Essent. Oil	not available	229000.0	not available	Duke, 1992 *
CARBOHYDRATES	0	Leaf	103620.0	660000.0	0.38	Duke, 1992 *
CARNOSIC-ACID	2	Leaf	not available	12400.0	1.59	Duke, 1992 *
CARNOSIC-ACID	2	Resin, Exudate, Sap	not available	57000.0	not available	Duke, 1992 *
CARNOSIC-ACID	2	Shoot	not available	35.0	-0.67	Duke, 1992 *
CARNOSIC-ACID-12-METHYL-ETHER	0	Shoot	not available	not available	not available	Duke, 1992 *
CARNOSIC-ACID-METHYL-ESTER	0	Resin, Exudate, Sap	not available	39000.0	not available	Duke, 1992 *
CARNOSIC-ACID-METHYL-ESTER	0	Shoot	not available	45.0	not available	Duke, 1992 *
CARNOSOL	20	Leaf	not available	1660.0	-0.53	Duke, 1992 *

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CARNOSOL	20	Plant	not available	not available	not available	Duke, 1992 *
CARNOSOL	20	Resin, Exudate, Sap	not available	36000.0	not available	Duke, 1992 *
CARNOSOL	20	Shoot	not available	34.0	-0.94	Duke, 1992 *
CARNOSOLIC-ACID	7	Leaf	not available	2100.0	not available	Duke, 1992 *
CARYOPHYLLENE	31	Essential Oil	not available	33000.0	-0.15	Duke, 1992 *
CARYOPHYLLENE	31	Leaf	1.0	1430.0	0.13	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
CARYOPHYLLENE-OXIDE	8	Essential Oil	not available	13100.0	not available	Duke, 1992 *
CARYOPHYLLENE-OXIDE	8	Plant	55.0	308.0	0.16	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
CATECHIN	43	Plant	not available	not available	not available	Duke, 1992 *
CHLOROGENIC-ACID	77	Inflorescence	not available	not available	not available	Duke, 1992 *
CHLOROGENIC-ACID	77	Shoot	not available	not available	not available	Duke, 1992 *
CHOLESTEROL	1	Fruit	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
CHOLESTEROL	1	Fruit Essent. Oil	not available	not available	not available	Duke, 1992 *
CHROMIUM	24	Leaf	0.1	0.3	-0.62	Duke, 1992 *
CHRYSOERIOL	7	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
CINAROSIDE	0	Shoot	not available	not available	not available	Duke, 1992 *
CINEOLE	0	Shoot	500.0	6075.0	1.00	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
CIRSIMARITRIN	10	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
CIRSIOL	3	Plant	not available	not available	not available	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
CIRSION	0	Plant	not available	not available	not available	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
CIS-BETA-OCIMENE	0	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
CIS-BETA-TERPINEOL	0	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
CIS-SABINENE-HYDRATE	0	Leaf	10.0	56.0	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
CIS-SABINENE-HYDRATE	0	Leaf Essent. Oil	not available	2000.0	not available	Duke, 1992 *
CIS-SALVENE	0	Essential Oil	not available	not available	not available	Duke, 1992 *
CITRAL	53	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
COBALT	2	Leaf	not available	not available	not available	Duke, 1992 *
COPPER	12	Leaf	7.0	8.0	-0.54	USDA's Ag Handbook 8 and sequelae)
CYNAROSIDE	3	Leaf	not available	not available	not available	Duke, 1992 *

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DELTA-CADINENE	9	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
DELTA-CADINENE	9	Plant	2.0	14.0	-0.47	Duke, 1992 *
DELTA-CADINOL	1	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
DELTA-TERPINEOL	0	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
DELTA-TERPINEOL	0	Plant	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
DIOSMETIN	13	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
DIPENTENE-O-DIPHENOLLACTONE	0	Leaf	not available	3500.0	not available	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
ELLAGIC-ACID	51	Plant	not available	not available	not available	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
EO	0	Leaf	not available	20000.0	0.74	Duke, 1992 *
EO	0	Plant	5000.0	28000.0	1.39	Duke, 1992 *
EPIOLEANOLIC-ACID	0	Leaf	not available	20.0	not available	Duke, 1992 *
EPIROSMANOL	0	Resin, Exudate, Sap	not available	not available	not available	Duke, 1992 *
EPIROSMANOL	0	Shoot	not available	1.0	not available	Duke, 1992 *
EUGENOL-GLUCOSIDE	0	Leaf	not available	9.0	not available	Duke, 1992 *
FARNESOL	17	Plant	not available	not available	not available	Duke, 1992 *
FAT	0	Leaf	21666.0	138000.0	1.62	Duke, 1992 *
FAT	0	Seed	not available	250000.0	-0.08	Duke, 1992 *

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FERULIC-ACID	61	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
FIBER	15	Leaf	not available	87000.0	-0.92	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
FIBER(CRUIDE)	0	Leaf	not available	196000.0	1.79	Duke, 1992 *
FIBER(DIETARY)	0	Leaf	not available	289000.0	-1.03	Duke, 1992 *
FUMARIC-ACID	7	Plant	not available	not available	not available	Duke, 1992 *
GALIC-ACID	62	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
GAMMA-CADINENE	0	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
GAMMA-CADINENE	0	Plant	2.0	14.0	-0.46	Duke, 1992 *
GAMMA-MAALIENE	0	Plant	not available	not available	not available	Duke, 1992 *
GAMMA-TERPINENE	11	Leaf	15.0	140.0	-0.10	Duke, 1992 *
GAMMA-TERPINENE	11	Leaf Essent. Oil	not available	3000.0	-0.69	Duke, 1992 *
GAMMA-TERPINENE	11	Et	not available	4000.0	not available	Duke, 1992 *
GENKWANIN	3	Leaf	not available	not available	not available	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
GERANIOL	35	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
GERMANICOL	0	Plant	not available	not available	not available	Duke, 1992 *
GLUTAMINE	5	Plant	not available	not available	not available	Duke, 1992 *
GLYCINE	12	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
HISPIDULIN	7	Leaf	not available	not available	not available	Duke, 1992 *
HORMINONE	0	Root	not available	not available	not available	Duke, 1992 *
HUMULENE	2	Essential Oil	not available	17900.0	-1.00	Duke, 1992 *
HUMULENE	2	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
HYDROXY-ROYLEANONE	0	Plant	not available	not available	not available	Duke, 1992 *
IRON	6	Leaf	2.4	15.0	-0.88	Duke, 1992 *
ISOBORNEOL	7	Essential Oil	not available	3800.0	not available	Duke, 1992 *
ISOBORNEOL	7	Leaf Essent. Oil	not available	28000.0	-1.00	Duke, 1992 *
ISOBORNEOL	7	Shoot	0.0	784.0	1.18	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
ISOBORNEOL-ACETATE	0	Essential Oil	not available	33700.0	1.00	Duke, 1992 *
ISOBORNEOL-ACETATE	0	Shoot	168.0	9436.0	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
ISOCARYOPHYLLENE	1	Plant	not available	not available	not available	Duke, 1992 *
ISOROSMANOL	1	Shoot	not available	57.0	not available	Duke, 1992 *
KILOCALORIES	0	Leaf	not available	3420.0	0.65	Pedersen, M. 1987. Nutritional Heriology. Pederson Publishing. Bountiful, Utah. 377 pp.
LABIATIC-ACID	1	Leaf	not available	not available	not available	Pedersen, M. 1987. Nutritional Heriology. Pederson Publishing. Bountiful, Utah. 377 pp.
LEDENE	0	Plant	not available	not available	not available	Duke, 1992 *
LEDOL	0	Leaf Essent. Oil	not available	3000.0	-1.00	Duke, 1992 *
LIMONENE	60	Essential Oil	6600.0	85000.0	-0.25	Duke, 1992 *
LIMONENE	60	Leaf Essent. Oil	10000.0	36400.0	-0.52	Duke, 1992 *
LIMONENE	60	Plant	39.0	2380.0	0.98	Duke, 1992 *
LIMONENE	60	Et	not available	14000.0	-1.00	Duke, 1992 *
LINALOL	0	Plant	0.0	3500.0	0.36	Duke, 1992 *
LINALOOL	53	Essential Oil	1700.0	5000.0	-0.56	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
LINALOOL	53	Leaf Essent. Oil	4000.0	46600.0	-0.40	Duke, 1992 *
LINALOOL	53	Plant	0.0	3500.0	-0.19	Duke, 1992 *
LINALOOL	53	Et	not available	11000.0	not available	Duke, 1992 *
LINALOOL-ACETATE	0	Essential Oil	2000.0	216000.0	1.96	Duke, 1992 *
LINALOOL-ACETATE	0	Leaf Essent. Oil	2000.0	34900.0	1.63	Duke, 1992 *
LINALOOL-ACETATE	0	Et	not available	10000.0	not available	Duke, 1992 *
LINALYL-ACETATE	7	Plant	0.0	6048.0	2.33	Duke, 1992 *
LINOLEIC-ACID	27	Fruit Essent. Oil	not available	not available	not available	Duke, 1992 *
LINOLEIC-ACID	27	Seed	not available	73000.0	-0.29	Duke, 1992 *
LINOLENIC-ACID	0	Fruit Essent. Oil	not available	not available	not available	Duke, 1992 *
LINOLENIC-ACID	0	Seed	42000.0	86750.0	0.93	Duke, 1992 *
LUTEOLIN	78	Leaf	not available	not available	not available	Duke, 1992 *
LUTEOLIN	78	Shoot	not available	not available	not available	Duke, 1992 *
LUTEOLIN-7-GLUCOSIDE	7	Plant	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
LUTEOLIN-7-GLYCOSIDE	0	Plant	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
LUTEOLIN-7-GLYCOSIDE	0	Root	not available	not available	not available	Duke, 1992 *
LUTEOLIN-7-METHYL-ETHER	0	Plant	not available	not available	not available	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
LUTEOLIN-7-O-BETA-D-GLUCOSIDE	0	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
LUTEOLIN-7-O-GLUCURONIDE	0	Plant	not available	not available	not available	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
MAGNESIUM	65	Leaf	444.0	2830.0	-0.50	Duke, 1992 *
MALIC-ACID	15	Plant	not available	not available	not available	Duke, 1992 *
MANGANESE	14	Leaf	0.5	3.0	-0.45	Duke, 1992 *
MANOOL	2	Essential Oil	not available	not available	not available	Duke, 1992 *
MANOOL	2	Shoot	556.0	1478.0	not available	Duke, 1992 *
MASLINIC-ACID	6	Leaf	not available	46.0	-0.89	Duke, 1992 *
MENTHOL	63	Leaf	not available	not available	not available	Duke, 1992 *
MENTHOL	63	Plant	not available	not available	not available	Duke, 1992 *
METHYL-ISOVALERATE	2	Plant	7.0	42.0	not available	Duke, 1992 *
MYRCENE	22	Essential Oil	3700.0	10400.0	-0.31	Duke, 1992 *
MYRCENE	22	Leaf Essent. Oil	9000.0	15700.0	-0.31	Duke, 1992 *
MYRCENE	22	Plant	0.0	336.0	-0.11	Duke, 1992 *
MYRCENE	22	Et	not available	8000.0	-1.00	Duke, 1992 *
MYRTENOL	2	Leaf Essent. Oil	not available	2000.0	not available	Duke, 1992 *
N-TRIACONTANE	0	Plant	not available	not available	not available	Duke, 1992 *
NEPETIN	4	Plant	not available	not available	not available	Duke, 1992 *
NIACIN	39	Leaf	10.0	62.0	-0.43	Duke, 1992 *
NICOTINIC-ACID-AMIDE	0	Plant	not available	5000.0	not available	Duke, 1992 *
O-METHYL-CARNOSIC-ACID	0	Shoot	not available	17.0	not available	Duke, 1992 *
OLEAN-12-EN-28-OIC-ACID	0	Shoot	not available	86.0	not available	Duke, 1992 *
OLEANOLIC-ACID	64	Leaf	140.0	786.0	-0.36	Duke, 1992 *
OLEANOLIC-ACID	64	Stem	not available	400.0	1.00	Duke, 1992 *
OLEIC-ACID	18	Fruit Essent. Oil	not available	not available	not available	Duke, 1992 *
OLEIC-ACID	18	Seed	not available	35500.0	-0.69	Duke, 1992 *
OXALIC-ACID	9	Plant	not available	not available	not available	Duke, 1992 *
P-COUMARIC-ACID	25	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
P-CYMBEN-8-OL	0	Plant	not available	not available	not available	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
P-CYMENE	16	Essential Oil	3100.0	5400.0	-0.59	Duke, 1992 *
P-CYMENE	16	Leaf Essent. Oil	7000.0	17700.0	-0.52	Duke, 1992 *
P-CYMENE	16	Shoot	15.0	495.0	-0.11	Duke, 1992 *
P-CYMENE	16	Et	not available	11000.0	-1.00	Duke, 1992 *
PALMITIC-ACID	13	Fruit Essent. Oil	not available	not available	not available	Duke, 1992 *
PALMITIC-ACID	13	Seed	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
PANTOTHENIC-ACID	11	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
PECTIN	24	Shoot	not available	not available	not available	Duke, 1992 *
PECTOLINAMARIGENIN	0	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
PHELLANDRENE	4	Essential Oil	not available	20000.0	not available	Duke, 1992 *
PHELLANDRENE	4	Leaf	100.0	560.0	-0.36	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
PHOSPHORUS	4	Leaf	201.0	1280.0	-0.68	Duke, 1992 *
PHYSTOSTEROLS	2	Leaf	not available	2440.0	0.00	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
PICROSALVIN	0	Leaf	not available	not available	not available	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
PINENE	12	Essential Oil	not available	84000.0	-1.00	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
PINENE	12	Leaf	420.0	2352.0	-0.35	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
PLANETOSE	0	Seed	not available	not available	not available	Duke, 1992 *
POMOLIC-ACID	2	Leaf	not available	3.0	-1.00	Duke, 1992 *
POTASSIUM	14	Leaf	3878.0	24700.0	-0.25	Duke, 1992 *
POTASSIUM	14	Plant	10700.0	11630.0	-0.71	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
POTASSIUM-NITRATE	0	Plant	not available	not available	not available	Duke, 1992 *
PRISTANE	0	Leaf	not available	56.0	not available	Duke, 1992 *
PROTEIN	0	Leaf	18055.0	115000.0	-0.97	Duke, 1992 *
PROTEIN	0	Seed	not available	180000.0	-0.48	Duke, 1992 *
RESIN	0	Plant	50000.0	60000.0	-0.53	Duke, 1992 *
RIBOFLAVIN	15	Leaf	0.6	3.6	-0.16	Duke, 1992 *
ROSMADIAL	1	Resin, Exudate, Sap	not available	6000.0	not available	Duke, 1992 *
ROSMANOL	5	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
ROSMANOL	5	Resin, Exudate, Sap	not available	not available	not available	Duke, 1992 *
ROSMANOL	5	Shoot	not available	11.0	not available	Duke, 1992 *
ROSMANOL-7-ETHYL-ETHER	0	Shoot	not available	144.0	not available	Duke, 1992 *
ROSMANOL-9-ETHYL-ETHER	1	Shoot	not available	144.0	not available	Duke, 1992 *
ROSMARINIC-ACID	57	Inflorescence	30000.0	42000.0	0.26	Duke, 1992 *
ROSMARINIC-ACID	57	Leaf	not available	not available	not available	Duke, 1992 *
ROSMARINIC-ACID	57	Plant	30000.0	50600.0	1.35	Duke, 1992 *
ROSMARINIC-ACID	57	Shoot	2000.0	5800.0	-0.58	Duke, 1992 *
ROSMARINIC-ACID	57	Tissue Culture	not available	not available	not available	Duke, 1992 *
ROYLEANONE	0	Root	not available	20300.0	not available	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
SABINENE	5	Essential Oil	not available	1200.0	-0.59	Duke, 1992 *
SABINENE	5	Leaf	10.0	56.0	-0.23	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
SABINENE	5	Leaf Essent. Oil	not available	2000.0	-0.61	Duke, 1992 *
SABINOL	5	Leaf	85.0	476.0	0.32	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
SABINYL-ACETATE	0	Plant	110.0	616.0	not available	Duke, 1992 *
SACCHAROPINE	0	Shoot	not available	1.6	-0.71	Duke, 1992 *
SAFFICINOLIDE	0	Shoot	35.0	57.0	not available	Duke, 1992 *
SAGEONE	0	Shoot	22.0	73.0	not available	Duke, 1992 *
SAGEQUINONE-METHIDE-A	0	Shoot	not available	207.0	not available	Duke, 1992 *
SAGERINIC-ACID	0	Plant	not available	1300.0	not available	Duke, 1992 *
SALICYLIC-ACID	34	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
SALVIANOLIC-ACID-K	0	Plant	not available	5760.0	not available	Duke, 1992 *
SALVIATANNIN	0	Leaf	not available	not available	not available	Duke, 1992 *
SALVIGENIN	0	Leaf	not available	not available	not available	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
SALVIGENIN	0	Shoot	not available	not available	not available	Duke, 1992 *
SALVIGENIN-7-O-GLUCURONIDE	0	Plant	not available	not available	not available	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
SALVIN	3	Plant	not available	not available	not available	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
SALVIN-MONOMETHYL-ETHER	3	Leaf	not available	not available	not available	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
SALVIOL	3	Essential Oil	not available	not available	not available	Duke, 1992 *
SAPONIN	0	Plant	not available	not available	not available	Duke, 1992 *
SELENIUM	60	Leaf	not available	not available	not available	Duke, 1992 *
SELIN-11-EN-4-OL	0	Leaf Essent. Oil	not available	54000.0	not available	Duke, 1992 *
SELINA-5,11-DIENE	0	Plant	not available	not available	not available	Duke, 1992 *
SERINE	1	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
SILICON	4	Leaf	0.5	3.1	-0.40	Duke, 1992 *
SODIUM	1	Leaf	170.0	1080.0	-0.46	Duke, 1992 *
SODIUM	1	Plant	11.0	12.0	-0.30	Father Nature's Farmacy: The aggregate of all these three-letter citations.
SPATHULENOL	0	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
STEARIC-ACID	8	Fruit Essent. Oil	not available	not available	not available	Duke, 1992 *
STEARIC-ACID	8	Seed	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
STIGMASTEROL	12	Fruit Essent. Oil	not available	not available	not available	Duke, 1992 *
STIGMASTEROL	12	Leaf	5.0	230.0	1.78	Duke, 1992 *
TANNIN	35	Plant	20000.0	80000.0	-0.05	Duke, 1992 *
TANNINS	0	Leaf	785.0	10000.0	-1.09	Duke, 1992 *
TERPINEN-4-OL	23	Essential Oil	not available	4500.0	-0.57	Duke, 1992 *
TERPINEN-4-OL	23	Leaf	10.0	1120.0	0.30	Duke, 1992 *
TERPINEN-4-OL	23	Leaf Essent. Oil	2000.0	3000.0	-0.52	Duke, 1992 *
TERPINEOL	18	Essential Oil	not available	not available	not available	Duke, 1992 *
TERPINEOL	18	Leaf	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
TERPINOLENE	9	Leaf Essent. Oil	not available	2000.0	-0.59	Duke, 1992 *
TERPINOLENE	9	Plant	not available	112.0	0.25	Duke, 1992 *
THIAMIN	31	Leaf	7.0	8.0	-0.06	Father Nature's Farmacy: The aggregate of all these three-letter citations.
THIAMINE	0	Leaf	1.3	8.2	0.73	Duke, 1992 *
THUJOL-ACETATE	0	Essential Oil	not available	1300.0	not available	Duke, 1992 *
THUJONE	17	Essential Oil	451300.0	531000.0	1.00	Duke, 1992 *
THUJONE	17	Leaf	1453.0	12636.0	1.41	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
THUJONE	17	Plant	2500.0	13000.0	1.99	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
THUJONE	17	Et	not available	457000.0	not available	Duke, 1992 *
THYMOL	71	Essential Oil	not available	not available	not available	Duke, 1992 *
THYMOL	71	Leaf	not available	not available	not available	Duke, 1992 *
TIN	4	Leaf	1.3	8.0	-0.91	Duke, 1992 *
TRANS-3-HEXENAL	0	Plant	not available	not available	not available	Duke, 1992 *
TRANS-ALLO-OCIMENE	0	Plant	not available	not available	not available	Duke, 1992 *
TRANS-BETA-OCIMENE	0	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
TRANS-OCIMENE	0	Plant	not available	not available	not available	Duke, 1992 *
TRANS-PINOCARVEOL	2	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
TRANS-SABINENE-HYDRATE	0	Leaf	10.0	56.0	1.68	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
TRANS-SABINENE-HYDRATE	0	Leaf Essent. Oil	not available	2000.0	-1.00	Duke, 1992 *
TRANS-SABINOL	0	Leaf	not available	not available	not available	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
TRANS-SABINOL	0	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
TRANS-SALVENE	0	Essential Oil	not available	800.0	not available	Duke, 1992 *
TRICYCLENE	0	Leaf	15.0	84.0	1.36	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
TRICYCLENE	0	Leaf Essent. Oil	not available	3000.0	-1.00	Duke, 1992 *
TYROSINE	8	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
URS-12-EN-28-OIC-ACID	0	Leaf	not available	14.0	not available	Duke, 1992 *
URSOLIC-ACID	89	Leaf	1255.0	1300.0	-0.39	Duke, 1992 *
URSOLIC-ACID	89	Root	not available	not available	not available	Duke, 1992 *
URSOLIC-ACID	89	Stem	not available	200.0	-0.86	Duke, 1992 *
UVAOL	6	Plant	not available	not available	not available	Duke, 1992 *
VALERANONE	0	Leaf Essent. Oil	not available	not available	not available	Duke, 1992 *
VANILLIC-ACID	24	Plant	not available	not available	not available	Stitt, Paul. Why George should eat broccoli.
VIRIDIFLOROL	1	Essential Oil	not available	not available	not available	Duke, 1992 *
VIRIDIFLOROL	1	Leaf	not available	not available	not available	Duke, 1992 *
WATER	0	Leaf	not available	843000.0	0.18	Duke, 1992 *
WAX	0	Plant	not available	not available	not available	Duke, 1992 *
ZINC	77	Leaf	1.0	5.9	-0.49	Duke, 1992 *