

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Eucalyptus globulus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
67	1,8-CINEOLE	Shoot		728000.0	10.305152225006955	--
67	1,8-CINEOLE	Fruit Essent. Oil	208100.0	725000.0	1.395591934022218	--
67	1,8-CINEOLE	Leaf Essent. Oil	168000.0	691200.0	1.5300608304247285	--
67	1,8-CINEOLE	Essential Oil		667000.0	1.9097239164573967	--
0	BETA-DIKETONE	Leaf Wax		560000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
11	ALPHA-PHELLANDRENE	Leaf Essent. Oil	1000.0	343000.0	0.46075475134298666	--
3	AROMADENDRENE	Leaf Essent. Oil	8600.0	268000.0	1.4141831265968194	--
28	ALPHA-PINENE	Leaf Essent. Oil	5000.0	260000.0	0.6771772357998844	--
0	ALLO-AROMADENDRENE	Fruit Essent. Oil		233700.0	1.0	--
0	CRYPTONE	Leaf Essent. Oil	86000.0	167000.0	1.0	--
31	CARYOPHYLLENE	Leaf Essent. Oil		167000.0	1.3972655179888909	--
16	P-CYMENE	Leaf Essent. Oil	3400.0	146000.0	1.3912935106767708	--
15	CITRONELLOL	Leaf Essent. Oil		136000.0	-0.402991928689751	--
28	ALPHA-PINENE	Shoot		119000.0	11.720652666165982	--
0	TANNINS	Leaf		110000.0	0.19910226047685284	--
0	CIS-TRANS-FARNESOL	Fruit Essent. Oil		99500.0		--
11	GAMMA-TERPINENE	Leaf Essent. Oil	1000.0	89000.0	0.43854490711065486	--
11	ALPHA-PHELLANDRENE	Fruit Essent. Oil		83000.0	0.7081332746915394	--
0	GLOBULOL	Essential Oil		69000.0	1.0	--
0	ALPHA-BULNESENE	Fruit Essent. Oil		59500.0	1.0	--
23	ALPHA-TERPINEOL	Leaf Essent. Oil	29000.0	58000.0	0.30722289388192564	--
8	MACROCARPAL-C	Leaf	229.0	56300.0		--
60	LIMONENE	Leaf Essent. Oil	31000.0	52000.0	-0.448365224243177	--
28	ALPHA-PINENE	Essential Oil		52000.0	-0.10249729010199074	--
28	ALPHA-PINENE	Fruit Essent. Oil		40900.0	-0.3076174544185865	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRITERPENES	Leaf	20000.0	40000.0		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
3	BETA-PHELLANDRENE	Leaf Essent. Oil		36000.0	2.0530780562532986	--
0	EO	Leaf	5000.0	35000.0	2.0639741997608496	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	GLOBULOL	Leaf Essent. Oil	13000.0	34400.0	1.0	--
3	BETA-PHELLANDRENE	Fruit Essent. Oil		34300.0	-0.6379877744813619	--
67	1,8-CINEOLE	Leaf	3500.0	33250.0	3.7465788103160196	--
10	MACROCARPAL-B	Leaf	13.0	33100.0		--
11	MACROCARPAL-A	Leaf	109.0	32000.0		--
0	ALPHA-GUAIENE	Fruit Essent. Oil		31500.0	1.0	--
0	EPIGLOBULOL	Leaf		28000.0	1.0	--
0	ALPHA-TERPINEOL ACETATE	Shoot		27000.0	1.0	--
0	EO	Shoot		21200.0	1.0092290806285587	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
0	ALPHA-TERPINEOL ACETATE	Leaf Essent. Oil		20900.0	-0.5243058025418297	--
3	AROMADENDRENE	Shoot		20000.0	6.313001041104233	--
4	PARAFFIN	Leaf		20000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	11,12-DEHYDROURSOLACTONE-ACETATE	Leaf Wax	10000.0	20000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LINALOOL-OXIDE	Leaf Essent. Oil		19000.0	1.2901099029322407	--
0	LINALOOL-ACETATE	Leaf Essent. Oil		18000.0	0.0303635379763657	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	ALPHA-EUDESOL	Leaf Essent. Oil		17000.0		--
2	TRANS-PINOCARVEOL	Shoot		16000.0	6.8597544992151915	--
0	GLOBULOL	Shoot		13000.0	4.997156125323988	--
13	BETA-EUDESOL	Leaf Essent. Oil		13000.0	1.0	--
2	TRANS-PINOCARVEOL	Leaf Essent. Oil		9400.0		--
9	CAMPHENE	Essential Oil		9000.0	-0.4234452941431629	--
23	ALPHA-TERPINEOL	Essential Oil		9000.0	-0.3744746961998452	--
28	ALPHA-PINENE	Leaf	1250.0	8750.0	0.34354526763390963	--
12	PINENE	Leaf	1200.0	8400.0	1.3619605941453428	--
23	TERPINEN-4-OL	Leaf Essent. Oil		8000.0	-0.48129072319747757	--
0	ALLO-AROMADENDRENE	Leaf Essent. Oil	2000.0	8000.0	-0.9551259469186552	--
13	BETA-PINENE	Shoot		7000.0	0.36923568596230105	--
0	GAMMA-EUDESOL	Leaf Essent. Oil		6000.0		--
0	ALLO-AROMADENDRENE	Shoot		6000.0	7.696423704237425	--
0	ALPHA-GURJUNENE	Leaf Essent. Oil		6000.0	1.0	--
9	CAMPHENE	Leaf Essent. Oil	4000.0	5100.0	-0.6956906319616664	--
13	BETA-PINENE	Leaf Essent. Oil	3900.0	5000.0	-0.7824396522094309	--
9	TERPINOLENE	Leaf Essent. Oil	1000.0	5000.0	-0.3048955154584189	--
16	P-CYMENE	Essential Oil		5000.0	-0.5921126100575014	--
22	MYRCENE	Shoot		5000.0	5.3645023580366304	--
0	ISOFENCHONE	Leaf Essent. Oil		3800.0		--
23	TERPINEN-4-OL	Shoot		3000.0	1.0763688108037435	--
0	P-DIMETHYL-ALPHA-STYRENE	Shoot		3000.0		--
11	ALPHA-PHELLANDRENE	Shoot		3000.0	7.3085148477973965	--
8	CARYOPHYLLENE-OXIDE	Leaf Essent. Oil		3000.0	-0.9728987333753536	--
35	BORNEOL	Shoot		3000.0	2.502127358747725	--
13	BETA-PINENE	Essential Oil		2000.0	-0.6859771042347549	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ALPHA-SELINENE	Leaf Essent. Oil		2000.0		--
0	ISOPULEGOLE	Leaf Essent. Oil		2000.0	-1.0	--
0	ALPHA-COPAENE	Leaf Essent. Oil		2000.0	1.0	--
53	LINALOOL	Shoot		2000.0	-0.14757543396854364	--
35	BORNEOL	Leaf Essent. Oil		2000.0	-0.65804010899624	--
0	LEDOL	Shoot		2000.0	5.981414190504062	--
53	LINALOOL	Leaf Essent. Oil		2000.0	-0.6831836448335925	--
22	MYRCENE	Leaf Essent. Oil	900.0	1000.0	-0.3629034834688993	--
7	PIPERITONE	Shoot		1000.0	-0.03161874369646552	--
11	ALPHA-PHELLANDRENE	Essential Oil		1000.0	-0.5736860307676445	--
0	GAMMA-CADINENE	Leaf Essent. Oil		1000.0	-0.7812021248174129	--
5	VERBENONE	Shoot		1000.0	1.181949712897411	--
0	TERPIN-1-EN-4-OL	Essential Oil		1000.0		--
0	BETA-CUBEBENE	Leaf Essent. Oil		1000.0	-1.066201785226631	--
0	TRANS-BETA-OCIMENE	Leaf Essent. Oil		1000.0	-1.3854808535566114	--
0	ALPHA-TERPINYL-ACETATE	Shoot		570.0	-0.09332250978271245	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
8	MACROCARPAL-C	Calyx		430.0		--
3	AROMADENDRENE	Leaf	50.0	350.0	-0.40806189308755036	--
32	ALPHA-TOCOPHEROL	Leaf		333.0	-8.863644217758233E-4	--
11	MACROCARPAL-A	Calyx		280.0		--
11	MACROCARPAL-D	Calyx		250.0		--
10	MACROCARPAL-B	Calyx		180.0		--
2	MACROCARPAL-E	Calyx		150.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PINOCARVEOL	Leaf	20.0	140.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
10	CUMINALDEHYDE	Leaf	25.0	135.0	0.2689923506737498	--
0	EUGLOBAL-III	Bud		100.0		--
0	ALPHA-P-DIMETHYL-STYRENE	Shoot		65.0	0.13842227102622012	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
0	ACETYLRUSOLIC-ACID	Wood		49.0		--
8	MACROCARPAL-J	Leaf		28.0		--
7	EUCALYPTONE	Leaf		27.0		--
8	MACROCARPAL-I	Leaf		23.0		--
8	MACROCARPAL-H	Leaf		23.0		--
11	MACROCARPAL-D	Leaf		18.0		--
0	BETULIC-ACID-METHYL-ESTER	Wood		14.0		--
6	UVAOL	Wood		13.0		--
0	EUGLOBAL-III	Leaf		10.0		--
0	3-BETA-23-DIHYDROXY-URS-12-EN-28-OIC-ACID	Wood		10.0		--
0	ERYTHRODIOL	Wood		10.0		--
9	BETA-AMYRIN	Wood		9.0		--
89	URSOLIC-ACID	Wood		8.0		--
0	16-HYDROXY-TRITRIACONTAN-18-ONE	Leaf		7.5		--
5	DAUCOSTEROL	Wood		6.0		--
1	4-HYDROXY-TRITRIACONTANE-16,18-DIONE	Leaf		6.0		--
0	3-BETA-ACETOXY-11-ALPHA-METHOXY-URS-12-EN-28-OIC-ACID	Wood		5.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	P-METHOXY-TRANS-CINNAMOYL-URSOLIC-ACID	Wood		4.2		--
18	RHAMNETIN	Stem Bark		3.5		--
0	P-METHOXY-CIS-CINNAMOYL-URSOLIC-ACID	Wood		3.3		--
0	P-METHOXY-CIS-CINNAMOYL-OLEANOLIC-ACID	Wood		2.7		--
17	TAXIFOLIN	Stem Bark		2.0		--
0	ENGELETIN	Stem Bark		2.0		--
56	NARINGENIN	Stem Bark		0.5		--
10	ERIODICTYOL	Stem Bark		0.4		--
176	QUERCETIN	Stem Bark		0.3		--
0	CITRONELLIC-ACID	Shoot		0.1	-0.2299487807105499	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
13	ALPHA-TERPINENE	Shoot		0.1	-0.48093760228289717	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
20	CITRONELLAL	Shoot		0.1	-0.22483909928564133	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
0	ALPHA-FENCHYL-ALCOHOL	Shoot		0.1	-0.4903066233071515	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SPATHULENOL	Shoot		0.1	-0.4442085626228723	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
0	BETA-CARYOPHYLLENE	Shoot		0.1	-0.40976853829945986	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
0	RHAMNAZIN	Stem Bark		0.1	--	--
5	BETA-ELEMENE	Shoot		0.1	-0.3396749847658091	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
0	CAMPHOLENIC-ALDEHYDE	Shoot		0.1	-0.3149715595301656	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
24	BENZALDEHYDE	Shoot		0.1	-0.2247983186195243	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
0	P-CYMEN-8-OL	Shoot		0.1	-0.17247239346667684	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
2	MYRTENOL	Shoot		0.1	-0.2513799778000483	Zrira, S. S., Benjlali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
16	P-CYMENE	Shoot		0.1	-0.5013233805011584	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
0	ALPHA-THUJENE	Shoot		0.1	-0.5551253545718478	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
60	LIMONENE	Shoot		0.1	-0.3283880008447348	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
10	CUMINALDEHYDE	Shoot		0.1	-0.32518936983709645	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
9	CAMPHENE	Shoot		0.1	-0.1342670938252942	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
2	CITRONELLYL-ACETATE	Shoot		0.1	-0.23387536673936873	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
23	ALPHA-TERPINEOL	Shoot		0.1	-0.2857345982558654	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ISOBUTYL-VALERATE	Shoot		0.1	-0.5248706028810963	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
15	CITRONELLOL	Shoot		0.1	-0.1773498482378769	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
11	GAMMA-TERPINENE	Shoot		0.1	-0.3942654916132095	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
0	ISOAMYL-ISOVALERATE	Shoot		0.1	-0.4765294039940469	Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.
87	RUTIN	Leaf		0.0	-1.0045451298553565	--
0	EUGLOBOL-IA2	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
1	CAPROIC-ACID	Fruit Essent. Oil				--
6	MYRISTIC-ACID	Fruit				--
0	VOMIFOLIOL	Bark				--
89	URSOLIC-ACID	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	EUGLOBAL-IVB	Leaf				--
71	THYMOL	Fruit Essent. Oil				--
2	TRANS-PINOCARVEOL	Leaf				--
0	QUERCETRIN	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EUCALYPTIN	Leaf				--
0	EUGLOBAL-IB	Bud				--
4	SAKURANETIN	Resin, Exudate, Sap				--
3	ISOAMYL-ALCOHOL	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	D-CATECHOL	Bark				Chemical Constituents of Oriental Herbs (3 diff. books)
9	DELTA-CADINENE	Leaf Essent. Oil				--
3	AROMADENDRENE	Fruit Essent. Oil				--
0	EUGLOBAL-VII	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
13	ALPHA-TERPINENE	Fruit Essent. Oil				--
0	GERANIOL-ACETATE	Essential Oil				--
1	VIRIDIFLOROL	Leaf Essent. Oil				--
0	ACETYL-OLEANOLIC-ACID	Wood				--
0	QUERCETOL-3-GLUCOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
24	ETHANOL	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	EUGLOBAL-IA2	Bud				--
5	SABINENE	Fruit Essent. Oil				--
0	I-TERPINEOL	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	LEDOL	Leaf Essent. Oil				--
0	(+)-LIMONENE	Leaf Essent. Oil				--
22	MYRCENE	Fruit Essent. Oil				--
35	GERANIOL	Essential Oil				--
5	VERBENONE	Fruit Essent. Oil				--
0	EUGLOBAL-IVB	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ACETYL-BETULINIC-ACID	Wood				--
1	QUERCETOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
13	BETA-PINENE	Fruit Essent. Oil				--
30	HYPEROSIDE	Leaf				--
3	CITRIODOROL	Plant				--
0	P-MENTHANE	Fruit Essent. Oil				--
101	APIGENIN	Leaf				--
22	ISOQUERCITRIN	Leaf				--
30	(+)-CATECHIN	Leaf				--
11	ALPHA-PHELLANDRENE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
9	CAMPHENE	Fruit Essent. Oil				--
6	MASLINIC-ACID	Leaf				--
11	GAMMA-TERPINENE	Fruit Essent. Oil				--
0	FLAVONOIDS	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	8-DEMETHYL-SIDEROXYLIN	Leaf				--
176	QUERCETIN	Leaf				--
0	EUDESMOL	Fruit Essent. Oil				--
0	GLOBULOL	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
77	CHLOROGENIC-ACID	Wood				Chemical Constituents of Oriental Herbs (3 diff. books)
0	(-)-TRANS-PINOCARVEOL	Leaf				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	EUGLOBAL-IIC	Bud				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-EUDESOL	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
1	CALYPTOSIDE	Leaf				--
0	ELLAGITANNINS	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
19	CARVONE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	8-DEMETHYLEUCALYPTIN	Leaf				--
43	PROTocatechuic-acid	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
51	ELLAGIC-ACID	Stem				--
44	QUERCITRIN	Leaf				--
3	BETA-PHELLANDRENE	Essential Oil				--
8	GENTISIC-ACID	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
77	CHLOROGENIC-ACID	Bark				Chemical Constituents of Oriental Herbs (3 diff. books)
20	CITRONELLAL	Leaf Essent. Oil				--
6	ALPHA-THUJONE	Fruit Essent. Oil				--
0	ISOPROPYLHEXANE	Leaf Essent. Oil				--
0	EUGLOBAL-IIB	Bud				--
0	ALPHA-AROMADENDRENE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	BORNEOL-ACETATE	Fruit Essent. Oil				--
0	TRITRIACONTANE-16,18-DIONE	Leaf Wax				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CITRIODOROL	Resin, Exudate, Sap				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
9	CAMPHENE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	EUGLOBAL-IIC	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
1	PINOCARVONE	Leaf				--
51	ELLAGIC-ACID	Leaf				--
78	LUTEOLIN	Leaf				--
0	7-METHOXYAROMADENDRIN	Resin, Exudate, Sap				--
11	GAMMA-TERPINENE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	CAPROALDEHYDE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
53	CITRAL	Fruit Essent. Oil				--
0	ALLO-AROMADENDRINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
35	BORNEOL	Fruit Essent. Oil				--
0	TRANS-VERBENOL	Fruit Essent. Oil				--
1	VIRIDIFLOROL	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	EUGLOBAL-IIB	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EUGLOBAL-IIA	Leaf				--
23	TERPINEN-4-OL	Fruit Essent. Oil				--
0	D-VERBENONE	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EREMOPHILENE	Fruit Essent. Oil				--
0	PRODELPHINIDIN-B5	Leaf				Takechi, M., Tanaka, Y., Takehara, M., Nonaka, G. I., Nishioka, I. 1985. Structure and Antiherpetic Activity Among the Tannins. <i>Phytochemistry</i> 24 10: 2245-2250.
27	LINOLEIC-ACID	Fruit				--
0	3-METHOXYAROMADENDRIN	Resin, Exudate, Sap				--
62	GALLIC-ACID	Stem				--
102	CAFFEIC-ACID	Leaf				Leung, A.Y., <i>Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics</i> , John Wiley & Sons, New York, 1980.
18	OLEIC-ACID	Fruit				--
0	ALPHA-TERPINEOL ACETATE	Essential Oil				--
3	ISOAMYL-ALCOHOL	Fruit Essent. Oil				--
0	3,3'-DI-O-GALLOYL-PRODELPHINIDIN	Leaf				Takechi, M., Tanaka, Y., Takehara, M., Nonaka, G. I., Nishioka, I. 1985. Structure and Antiherpetic Activity Among the Tannins. <i>Phytochemistry</i> 24 10: 2245-2250.
0	ALPHA-AROMADENDRENE	Fruit Essent. Oil				--
0	GAMMA-CADINENE	Fruit Essent. Oil				--
2	TRANS-PINOCARVEOL	Essential Oil				--
0	VALERALDEHYDE	Leaf				--
0	EUGLOBAL-IIA	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EUGLOBAL-IIA	Bud				--
0	3-OMETHYLELLAGIC-ACID-4'RHAMNOSIDE	Wood				Chemical Constituents of Oriental Herbs (3 diff. books)
0	D-MYRTENOL	Leaf				Guenther, E., <i>The Essential Oils</i> , 6 volumes, D. van Nostrand, New York, 1948-1952.
0	EPIGLOBULOL	Leaf Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PROANTHOCYANIDIN	Leaf				--
0	3,4,5-TRIMETHOXYPHENOL	Bark				--
62	GALLIC-ACID	Leaf				--
2	BUTYRALDEHYDE	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
60	CHRYSIN	Leaf				--
64	OLEANOLIC-ACID	Leaf				--
0	GURJUNENE	Leaf Essent. Oil				--
0	3'-O-GALLOYL-PRODELPHINIDIN	Leaf				Takechi, M., Tanaka, Y., Takehara, M., Nonaka, G. I., Nishioka, I. 1985. Structure and Antiherpetic Activity Among the Tannins. Phytochemistry 24 10: 2245-2250.
0	ALLO-AROMADENDRENE	Essential Oil				--
0	FIXED-OIL	Fruit				--
2	TRANS-PINOCARVEOL	Fruit Essent. Oil				--
0	EUGLOBAL-IA1	Bud				--
0	TRITRIACONTANE-16,18-DIONE	Plant				--
0	EUGLOBAL-IC	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EUGLOBAL-IC	Bud				--
0	3-OMETHYLELLAGIC-ACID-4'RHAMNOSIDE	Bark				Chemical Constituents of Oriental Herbs (3 diff. books)
0	D-MYRTENAL	Leaf				--
7	PIPERITONE	Fruit Essent. Oil				--
0	BETA-CEDRENE	Leaf Essent. Oil				--
0	LINALOOL-OXIDE	Fruit Essent. Oil				--
1	2,4,6-TRIMETHOXYPHENOL	Bark				--
62	GALLIC-ACID	Bark				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	GLOBULOL	Fruit Essent. Oil				--
0	3'-O-GALLOYL-PROCYANIDIN-B2	Leaf				Takechi, M., Tanaka, Y., Takehara, M., Nonaka, G. I., Nishioka, I. 1985. Structure and Antiherpetic Activity Among the Tannins. Phytochemistry 24 10: 2245-2250.
5	BETA-THUJONE	Fruit Essent. Oil				--
6	FENCHONE	Fruit Essent. Oil				--
51	ELLAGIC-ACID	Bark				--
0	EUGLOBAL-IB	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EUGLOBAL-IC	Leaf				--
0	SIDEROXYLIN	Leaf				--
0	3-ISOPROPYLIDEN-1-ACETYL-5-CYCLOPENTENE	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
16	P-CYMENE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	D-LINALOL	Leaf				--
8	ELLAGITANNIN	Leaf				--
13	PALMITIC-ACID	Fruit				--
61	FERULIC-ACID	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
13	BETA-EUDES MOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
2	MYRTENOL	Fruit Essent. Oil				--
23	ALPHA-TERPINEOL	Fruit Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(-)-ALPHA-PHELLANDRENE	Leaf Essent. Oil				--
0	BETA-TERPINENE	Fruit Essent. Oil				--
0	ALPHA-GURJUNENE	Fruit Essent. Oil				--
0	EUGLOBAL-VII	Bud				--
0	D-LINALOOL	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
44	QUERCITRIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	EUGLOBAL-IA1	Plant				--
0	EUGLOBAL-IB	Leaf				--
0	SCYLLITOL	Leaf				--
0	LEDOL	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	D-CATECHOL	Wood				Chemical Constituents of Oriental Herbs (3 diff. books)
0	DIEPIPALUSTROL	Leaf Essent. Oil				--
3	AROMADENDRENE	Essential Oil				--