

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Eucalyptus globulus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
28	ALPHA-PINENE	Shoot		119000.0	11.720652666165982	--
67	1,8-CINEOLE	Shoot		728000.0	10.305152225006955	--
0	ALLO-AROMADENDRENE	Shoot		6000.0	7.696423704237425	--
11	ALPHA-PHELLANDRENE	Shoot		3000.0	7.3085148477973965	--
2	TRANS-PINOCARVEOL	Shoot		16000.0	6.8597544992151915	--
3	AROMADENDRENE	Shoot		20000.0	6.313001041104233	--
0	LEDOL	Shoot		2000.0	5.981414190504062	--
22	MYRCENE	Shoot		5000.0	5.3645023580366304	--
0	GLOBULOL	Shoot		13000.0	4.997156125323988	--
67	1,8-CINEOLE	Leaf	3500.0	33250.0	3.7465788103160196	--
35	BORNEOL	Shoot		3000.0	2.502127358747725	--
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.
3	BETA-PHELLANDRENE	Leaf Essent. Oil		36000.0	2.0530780562532986	--
67	1,8-CINEOLE	Essential Oil		667000.0	1.9097239164573967	--
67	1,8-CINEOLE	Leaf Essent. Oil	168000.0	691200.0	1.5300608304247285	--
3	AROMADENDRENE	Leaf Essent. Oil	8600.0	268000.0	1.4141831265968194	--
31	CARYOPHYLLENE	Leaf Essent. Oil		167000.0	1.3972655179888909	--
67	1,8-CINEOLE	Fruit Essent. Oil	208100.0	725000.0	1.395591934022218	--
16	P-CYMENE	Leaf Essent. Oil	3400.0	146000.0	1.3912935106767708	--
12	PINENE	Leaf	1200.0	8400.0	1.3619605941453428	--
0	LINALOOL-OXIDE	Leaf Essent. Oil		19000.0	1.2901099029322407	--
5	VERBENONE	Shoot		1000.0	1.181949712897411	--
23	TERPINEN-4-OL	Shoot		3000.0	1.0763688108037435	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	GLOBULOL	Leaf Essent. Oil	13000.0	34400.0	1.0	--
0	ALPHA-GUAIENE	Fruit Essent. Oil		31500.0	1.0	--
0	EPIGLOBULOL	Leaf		28000.0	1.0	--
0	CRYPTONE	Leaf Essent. Oil	86000.0	167000.0	1.0	--
0	ALPHA-COPAENE	Leaf Essent. Oil		2000.0	1.0	--
0	ALPHA-TERPINEOL ACETATE	Shoot		27000.0	1.0	--
0	ALPHA-BULNESENE	Fruit Essent. Oil		59500.0	1.0	--
13	BETA-EUDESOL	Leaf Essent. Oil		13000.0	1.0	--
0	ALPHA-GURJUNENE	Leaf Essent. Oil		6000.0	1.0	--
0	GLOBULOL	Essential Oil		69000.0	1.0	--
0	ALLO-AROMADENDRENE	Fruit Essent. Oil		233700.0	1.0	--
11	ALPHA-PHELLANDRENE	Fruit Essent. Oil		83000.0	0.7081332746915394	--
28	ALPHA-PINENE	Leaf Essent. Oil	5000.0	260000.0	0.6771772357998844	--
11	ALPHA-PHELLANDRENE	Leaf Essent. Oil	1000.0	343000.0	0.46075475134298666	--
11	GAMMA-TERPINENE	Leaf Essent. Oil	1000.0	89000.0	0.43854490711065486	--
13	BETA-PINENE	Shoot		7000.0	0.36923568596230105	--
28	ALPHA-PINENE	Leaf	1250.0	8750.0	0.34354526763390963	--
23	ALPHA-TERPINEOL	Leaf Essent. Oil	29000.0	58000.0	0.30722289388192564	--
10	CUMINALDEHYDE	Leaf	25.0	135.0	0.2689923506737498	--
0	TANNINS	Leaf		110000.0	0.19910226047685284	--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LINALOOL-ACETATE	Leaf Essent. Oil		18000.0	0.0303635379763657	--
32	ALPHA-TOCOPHEROL	Leaf		333.0	-8.863644217758233E-4	--
7	PIPERITONE	Shoot		1000.0	-0.03161874369646552	--
0	ALPHA-TERPINYL-ACETATE	Shoot		570.0	-0.09332250978271245	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.
28	ALPHA-PINENE	Essential Oil		52000.0	-0.10249729010199074	--
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.
53	LINALOOL	Shoot		2000.0	-0.14757543396854364	--
0	P-CYMEN-8-OL	Shoot		0.1	-0.17247239346667684	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.
24	BENZALDEHYDE	Shoot		0.1	-0.2247983186195243	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.
20	CITRONELLAL	Shoot		0.1	-0.22483909928564133	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	CITRONELLIC-ACID	Shoot		0.1	-0.2299487807105499	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.
2	MYRTENOL	Shoot		0.1	-0.2513799778000483	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.
9	TERPINOLENE	Leaf Essent. Oil	1000.0	5000.0	-0.3048955154584189	--
28	ALPHA-PINENE	Fruit Essent. Oil		40900.0	-0.3076174544185865	--
0	CAMPHOLENIC-ALDEHYDE	Shoot		0.1	-0.3149715595301656	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.
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	BETA-ELEMENE	Shoot		0.1	-0.3396749847658091	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.
22	MYRCENE	Leaf Essent. Oil	900.0	1000.0	-0.3629034834688993	--
23	ALPHA-TERPINEOL	Essential Oil		9000.0	-0.3744746961998452	--
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.
15	CITRONELLOL	Leaf Essent. Oil		136000.0	-0.402991928689751	--
3	AROMADENDRENE	Leaf	50.0	350.0	-0.40806189308755036	--
0	BETA-CARYOPHYLLENE	Shoot		0.1	-0.40976853829945986	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	Essential Oil		9000.0	-0.4234452941431629	--
0	SPATHULENOL	Shoot		0.1	-0.4442085626228723	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	Leaf Essent. Oil	31000.0	52000.0	-0.448365224243177	--
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.
13	ALPHA-TERPINENE	Shoot		0.1	-0.48093760228289717	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
23	TERPINEN-4-OL	Leaf Essent. Oil		8000.0	-0.48129072319747757	--
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.
16	P-CYMENE	Shoot		0.1	-0.5013233805011584	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-TERPINEOL ACETATE	Leaf Essent. Oil		20900.0	-0.5243058025418297	--
0	ISOBUTYL-VALERATE	Shoot		0.1	-0.5248706028810963	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-THUJENE	Shoot		0.1	-0.5551253545718478	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.
11	ALPHA-PHELLANDRENE	Essential Oil		1000.0	-0.5736860307676445	--
16	P-CYMENE	Essential Oil		5000.0	-0.5921126100575014	--
3	BETA-PHELLANDRENE	Fruit Essent. Oil		34300.0	-0.6379877744813619	--
35	BORNEOL	Leaf Essent. Oil		2000.0	-0.65804010899624	--
53	LINALOOL	Leaf Essent. Oil		2000.0	-0.6831836448335925	--
13	BETA-PINENE	Essential Oil		2000.0	-0.6859771042347549	--
9	CAMPHENE	Leaf Essent. Oil	4000.0	5100.0	-0.6956906319616664	--
0	GAMMA-CADINENE	Leaf Essent. Oil		1000.0	-0.7812021248174129	--
13	BETA-PINENE	Leaf Essent. Oil	3900.0	5000.0	-0.7824396522094309	--
0	ALLO-AROMADENDRENE	Leaf Essent. Oil	2000.0	8000.0	-0.9551259469186552	--
8	CARYOPHYLENE-OXIDE	Leaf Essent. Oil		3000.0	-0.9728987333753536	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ISOPULEGOLE	Leaf Essent. Oil		2000.0	-1.0	--
87	RUTIN	Leaf		0.0	-1.0045451298553565	--
0	BETA-CUBEBENE	Leaf Essent. Oil		1000.0	-1.066201785226631	--
0	TRANS-BETA-OCIMENE	Leaf Essent. Oil		1000.0	-1.3854808535566114	--
6	MYRISTIC-ACID	Fruit				--
0	VOMIFOLIOL	Bark				--
0	EUGLOBOL-IA2	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
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.
1	CAPROIC-ACID	Fruit Essent. Oil				--
89	URSOLIC-ACID	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
4	SAKURANETIN	Resin, Exudate, Sap				--
8	MACROCARPAL-C	Leaf	229.0	56300.0		--
0	QUERCETRIN	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	EUGLOBAL-IVB	Leaf				--
71	THYMOL	Fruit Essent. Oil				--
0	EUCALYPTIN	Leaf				--
0	EUGLOBAL-IB	Bud				--
0	ACETYLURSOLIC-ACID	Wood		49.0		--
2	TRANS-PINOCARVEOL	Leaf				--
0	D-CATECHOL	Bark				Chemical Constituents of Oriental Herbs (3 diff. books)
9	DELTA-CADINENE	Leaf Essent. Oil				--
3	AROMADENDRENE	Fruit Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	P-METHOXY-CIS-CINNAMOYL-URSOLIC-ACID	Wood		3.3		--
3	ISOAMYL-ALCOHOL	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
13	ALPHA-TERPINENE	Fruit Essent. Oil				--
0	GERANIOL-ACETATE	Essential Oil				--
1	VIRIDIFLOROL	Leaf Essent. Oil				--
0	EUGLOBAL-VII	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	TRITERPENES	Leaf	20000.0	40000.0		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
5	SABINENE	Fruit Essent. Oil				--
10	MACROCARPAL-B	Calyx		180.0		--
0	QUERCETOL-3-GLUCOSIDE	Plant				J.S. Glasby Dict.Plis 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				--
0	ACETYL-OLEANOLIC-ACID	Wood				--
5	DAUCOSTEROL	Wood		6.0		--
0	(+)-LIMONENE	Leaf Essent. Oil				--
0	P-METHOXY-CIS-CINNAMOYL-OLEANOLIC-ACID	Wood		2.7		--
0	LEDOL	Leaf Essent. Oil				--
0	I-TERPINEOL	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
22	MYRCENE	Fruit Essent. Oil				--
35	GERANIOL	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	VERBENONE	Fruit Essent. Oil				--
0	EUGLOBAL-IVB	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
3	ALPHA-SELINENE	Leaf Essent. Oil		2000.0		--
18	RHAMNETIN	Stem Bark		3.5		--
10	MACROCARPAL-B	Leaf	13.0	33100.0		--
1	QUERCETOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
7	EUCALYPTONE	Leaf		27.0		--
0	ACETYL-BETULINIC-ACID	Wood				--
13	BETA-PINENE	Fruit Essent. Oil				--
3	CITRIODOROL	Plant				--
30	(+)-CATECHIN	Leaf				--
101	APIGENIN	Leaf				--
0	P-MENTHANE	Fruit Essent. Oil				--
22	ISOQUERCITRIN	Leaf				--
0	3-BETA-ACETOXY-11-ALPHA-METHOXY-URS-12-EN-28-OIC-ACID	Wood		5.0		--
30	HYPEROSIDE	Leaf				--
6	MASLINIC-ACID	Leaf				--
11	GAMMA-TERPINENE	Fruit Essent. Oil				--
6	UVAOL	Wood		13.0		--
0	EUGLOBAL-III	Leaf		10.0		--
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				--
0	FLAVONOIDS	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	RHAMNAZIN	Stem Bark		0.1		--
11	MACROCARPAL-A	Calyx		280.0		--
176	QUERCETIN	Leaf				--
0	EUDESMOL	Fruit Essent. Oil				--
0	8-DEMETHYL-SIDEROXYLIN	Leaf				--
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	P-DIMETHYL-ALPHA-STYRENE	Shoot		3000.0		--
0	3-BETA-23-DIHYDROXY-URS-12-EN-28-OIC-ACID	Wood		10.0		--
0	GLOBULOL	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
8	MACROCARPAL-J	Leaf		28.0		--
19	CARVONE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
89	URSOLIC-ACID	Wood		8.0		--
0	EUGLOBAL-III	Bud		100.0		--
0	EUGLOBAL-IIC	Bud				--
0	ALPHA-EUDESMOL	Leaf Essent. Oil		17000.0		--
0	ALPHA-EUDESMOL	Plant				J.S. Glasby Dict.Pls 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.
11	MACROCARPAL-A	Leaf	109.0	32000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
0	ERYthrodiol	Wood		10.0		--
0	8-DEmethyleucalyptin	Leaf				--
3	BETA-PHELLandrene	Essential Oil				--
44	QUERCITRIN	Leaf				--
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				--
1	4-HYDROXY-TRITRIACONTANE-16,18-DIONE	Leaf		6.0		--
8	GENTISIC-acid	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
8	MACROCARPAL-I	Leaf		23.0		--
9	CAMPHENE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	GAMMA-EUDES MOL	Leaf Essent. Oil		6000.0		--
0	TRITRIACONTANE-16,18-DIONE	Leaf Wax				--
0	EUGLOBAL-IIC	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
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				--

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
78	LUTEOLIN	Leaf				--
1	PINOCARVONE	Leaf				--
51	ELLAGIC-ACID	Leaf				--
10	ERIODICTYOL	Stem Bark		0.4		--
0	7-METHOXYAROMADENDRIN	Resin, Exudate, Sap				--
176	QUERCETIN	Stem Bark		0.3		--
53	CITRAL	Fruit Essent. Oil				--
0	ISOFENCHONE	Leaf Essent. Oil		3800.0		--
0	16-HYDROXY-TRITRIACONTAN-18-ONE	Leaf		7.5		--
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.
23	TERPINEN-4-OL	Fruit Essent. Oil				--
8	MACROCARPAL-H	Leaf		23.0		--
1	VIRIDIFLOROL	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	TRANS-VERBENOL	Fruit Essent. Oil				--
0	EUGLOBAL-IIB	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EUGLOBAL-IIA	Leaf				--
0	ALLO-AROMADENDRINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
35	BORNEOL	Fruit Essent. Oil				--
27	LINOLEIC-ACID	Fruit				--

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.
0	D-VERBENONE	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	EREMOPHILENE	Fruit Essent. Oil				--
0	3-METHOXYAROMADENDRIN	Resin, Exudate, Sap				--
0	PRODELPHINIDIN-B5	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	CIS-TRANS-FARNESOL	Fruit Essent. Oil		99500.0		--
0	ALPHA-TERPINEOL ACETATE	Essential Oil				--
18	OLEIC-ACID	Fruit				--
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. Phytochemistry 24 10: 2245-2250.
62	GALLIC-ACID	Stem				--
102	CAFFEIC-ACID	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	TERPIN-1-EN-4-OL	Essential Oil		1000.0		--
2	MACROCARPAL-E	Calyx		150.0		--
0	VALERALDEHYDE	Leaf				--
0	GAMMA-CADINENE	Fruit Essent. Oil				--
2	TRANS-PINOCARVEOL	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EUGLOBAL-IIA	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EUGLOBAL-IIA	Bud				--
0	ALPHA-AROMADENDRENE	Fruit Essent. Oil				--
0	3-OMETHYLELLAGIC-ACID-4'RHAMNOSIDE	Wood				Chemical Constituents of Oriental Herbs (3 diff. books)
0	D-MYRTENOL	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	EPIGLOBULOL	Leaf Essent. Oil				--
0	3,4,5-TRIMETHOXYPHENOL	Bark				--
0	PROANTHOCYANIDIN	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.
62	GALLIC-ACID	Leaf				--
2	BUTYRALDEHYDE	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
60	CHRYSIN	Leaf				--
17	TAXIFOLIN	Stem Bark		2.0		--
11	MACROCARPAL-D	Calyx		250.0		--
0	TRITRIACONTANE-16,18-DIONE	Plant				--
0	FIXED-OIL	Fruit				--
2	TRANS-PINOCARVEOL	Fruit Essent. Oil				--
0	EUGLOBAL-IC	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EUGLOBAL-IC	Bud				--
0	ALLO-AROMADENDRENE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3-OMETHYLELLAGIC-ACID-4'RHAMNOSIDE	Bark				Chemical Constituents of Oriental Herbs (3 diff. books)
0	BETULIC-ACID-METHYL-ESTER	Wood		14.0		--
0	EUGLOBAL-IA1	Bud				--
0	LINALOOL-OXIDE	Fruit Essent. Oil				--
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	D-MYRTENAL	Leaf				--
0	ENGELETIN	Stem Bark		2.0		--
1	2,4,6-TRIMETHOXYPHENOL	Bark				--
0	BETA-CEDRENE	Leaf Essent. Oil				--
7	PIPERITONE	Fruit Essent. Oil				--
56	NARINGENIN	Stem Bark		0.5		--
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.
62	GALLIC-ACID	Bark				--
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	SIDEROXYLIN	Leaf				--
11	MACROCARPAL-D	Leaf		18.0		--
6	FENCHONE	Fruit Essent. Oil				--
2	TRANS-PINOCARVEOL	Leaf Essent. Oil		9400.0		--
0	EUGLOBAL-IB	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
0	EUGLOBAL-IC	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3-ISOPROPYLIDEN-1-ACETYL-5-CYCLOPENTENE	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
5	BETA-THUJONE	Fruit Essent. Oil				--
51	ELLAGIC-ACID	Bark				--
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				--
9	BETA-AMYRIN	Wood		9.0		--
13	PALMITIC-ACID	Fruit				--
23	ALPHA-TERPINEOL	Fruit Essent. Oil				--
2	MYRTENOL	Fruit Essent. Oil				--
0	(-)-ALPHA-PHELLANDRENE	Leaf Essent. Oil				--
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-EUDESOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	SCYLLITOL	Leaf				--
8	MACROCARPAL-C	Calyx		430.0		--
44	QUERCITRIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	EUGLOBAL-VII	Bud				--
0	EUGLOBAL-IA1	Plant				--
0	EUGLOBAL-IB	Leaf				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-TERPINENE	Fruit Essent. Oil				--
0	ALPHA-GURJUNENE	Fruit Essent. Oil				--
0	D-LINALOOL	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
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				--
0	P-METHOXY-TRANS-CINNAMOYL-URSOLIC-ACID	Wood		4.2		--