

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Eucalyptus globulus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	VIRIDIFLOROL	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
1	VIRIDIFLOROL	Leaf Essent. Oil				--
5	VERBENONE	Fruit Essent. Oil				--
5	VERBENONE	Shoot		1000.0	1.181949712897411	--
6	UVAOL	Wood		13.0		--
89	URSOLIC-ACID	Wood		8.0		--
89	URSOLIC-ACID	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
2	TRANS-PINOCARVEOL	Essential Oil				--
2	TRANS-PINOCARVEOL	Fruit Essent. Oil				--
2	TRANS-PINOCARVEOL	Leaf Essent. Oil		9400.0		--
2	TRANS-PINOCARVEOL	Leaf				--
2	TRANS-PINOCARVEOL	Shoot		16000.0	6.8597544992151915	--
71	THYMOL	Fruit Essent. Oil				--
9	TERPINOLENE	Leaf Essent. Oil	1000.0	5000.0	-0.3048955154584189	--
23	TERPINEN-4-OL	Shoot		3000.0	1.0763688108037435	--
23	TERPINEN-4-OL	Fruit Essent. Oil				--
23	TERPINEN-4-OL	Leaf Essent. Oil		8000.0	-0.48129072319747757	--
17	TAXIFOLIN	Stem Bark		2.0		--
4	SAKURANETIN	Resin, Exudate, Sap				--
5	SABINENE	Fruit Essent. Oil				--
87	RUTIN	Leaf		0.0	-1.0045451298553565	--
18	RHAMNETIN	Stem Bark		3.5		--
44	QUERCITRIN	Plant				J.S. Glasby Dict. Pls Containing 2ndary Metabolite. 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
44	QUERCITRIN	Leaf				--
1	QUERCETOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
176	QUERCETIN	Leaf				--
176	QUERCETIN	Stem Bark		0.3		--
43	PROTocatechuic-acid	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
7	PIPERITONE	Shoot		1000.0	-0.03161874369646552	--
7	PIPERITONE	Fruit Essent. Oil				--
1	PINOCARVONE	Leaf				--
12	PINENE	Leaf	1200.0	8400.0	1.3619605941453428	--
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.
13	PALMITIC-ACID	Fruit				--
16	P-CYMENE	Essential Oil		5000.0	-0.5921126100575014	--
16	P-CYMENE	Leaf Essent. Oil	3400.0	146000.0	1.3912935106767708	--
16	P-CYMENE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
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.
18	OLEIC-ACID	Fruit				--
64	OLEANOLIC-ACID	Leaf				--
56	NARINGENIN	Stem Bark		0.5		--
2	MYRTENOL	Fruit Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
6	MYRISTIC-ACID	Fruit				--
22	MYRCENE	Shoot		5000.0	5.3645023580366304	--
22	MYRCENE	Leaf Essent. Oil	900.0	1000.0	-0.3629034834688993	--
22	MYRCENE	Fruit Essent. Oil				--
6	MASLINIC-ACID	Leaf				--
8	MACROCARPAL-J	Leaf		28.0		--
8	MACROCARPAL-I	Leaf		23.0		--
8	MACROCARPAL-H	Leaf		23.0		--
2	MACROCARPAL-E	Calyx		150.0		--
11	MACROCARPAL-D	Calyx		250.0		--
11	MACROCARPAL-D	Leaf		18.0		--
8	MACROCARPAL-C	Calyx		430.0		--
8	MACROCARPAL-C	Leaf	229.0	56300.0		--
10	MACROCARPAL-B	Calyx		180.0		--
10	MACROCARPAL-B	Leaf	13.0	33100.0		--
11	MACROCARPAL-A	Leaf	109.0	32000.0		--
11	MACROCARPAL-A	Calyx		280.0		--
78	LUTEOLIN	Leaf				--
27	LINOLEIC-ACID	Fruit				--
53	LINALOOL	Shoot		2000.0	-0.14757543396854364	--
53	LINALOOL	Leaf Essent. Oil		2000.0	-0.6831836448335925	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
60	LIMONENE	Leaf Essent. Oil	31000.0	52000.0	-0.448365224243177	--
22	ISOQUERCITRIN	Leaf				--
3	ISOAMYL-ALCOHOL	Fruit Essent. Oil				--
3	ISOAMYL-ALCOHOL	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
30	HYPEROSIDE	Leaf				--
35	GERANIOL	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.
11	GAMMA-TERPINENE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
11	GAMMA-TERPINENE	Fruit Essent. Oil				--
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.
11	GAMMA-TERPINENE	Leaf Essent. Oil	1000.0	89000.0	0.43854490711065486	--
62	GALLIC-ACID	Stem				--
62	GALLIC-ACID	Leaf				--
62	GALLIC-ACID	Bark				--
61	FERULIC-ACID	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
6	FENCHONE	Fruit Essent. Oil				--
7	EUCALYPTONE	Leaf		27.0		--
24	ETHANOL	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
10	ERIODICTYOL	Stem Bark		0.4		--
8	ELLAGITANNIN	Leaf				--
51	ELLAGIC-ACID	Bark				--
51	ELLAGIC-ACID	Stem				--
51	ELLAGIC-ACID	Leaf				--
9	DELTA-CADINENE	Leaf Essent. Oil				--
5	DAUCOSTEROL	Wood		6.0		--
10	CUMINALDEHYDE	Leaf	25.0	135.0	0.2689923506737498	--
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.
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.
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.
15	CITRONELLOL	Leaf Essent. Oil		136000.0	-0.402991928689751	--
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
20	CITRONELLAL	Leaf Essent. Oil				--
3	CITRIODOROL	Plant				--
3	CITRIODOROL	Resin, Exudate, Sap				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
53	CITRAL	Fruit Essent. Oil				--
60	CHRYSIN	Leaf				--
77	CHLOROGENIC-ACID	Wood				Chemical Constituents of Oriental Herbs (3 diff. books)
77	CHLOROGENIC-ACID	Bark				Chemical Constituents of Oriental Herbs (3 diff. books)
8	CARYOPHYLLENE-OXIDE	Leaf Essent. Oil		3000.0	-0.9728987333753536	--
31	CARYOPHYLLENE	Leaf Essent. Oil		167000.0	1.3972655179888909	--
19	CARVONE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
1	CAPROIC-ACID	Fruit Essent. Oil				--
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.
9	CAMPHENE	Leaf Essent. Oil	4000.0	5100.0	-0.6956906319616664	--
9	CAMPHENE	Essential Oil		9000.0	-0.4234452941431629	--
9	CAMPHENE	Fruit Essent. Oil				--
9	CAMPHENE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
1	CALYPTOSIDE	Leaf				--
102	CAFFEIC-ACID	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.

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2	BUTYRALDEHYDE	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
35	BORNEOL	Shoot		3000.0	2.502127358747725	--
35	BORNEOL	Fruit Essent. Oil				--
35	BORNEOL	Leaf Essent. Oil		2000.0	-0.65804010899624	--
5	BETA-THUJONE	Fruit Essent. Oil				--
13	BETA-PINENE	Leaf Essent. Oil	3900.0	5000.0	-0.7824396522094309	--
13	BETA-PINENE	Essential Oil		2000.0	-0.6859771042347549	--
13	BETA-PINENE	Fruit Essent. Oil				--
13	BETA-PINENE	Shoot		7000.0	0.36923568596230105	--
13	BETA-PINENE	Leaf				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	--
3	BETA-PHELLANDRENE	Essential Oil				--
3	BETA-PHELLANDRENE	Fruit Essent. Oil		34300.0	-0.6379877744813619	--
13	BETA-EUDESOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
13	BETA-EUDESOL	Leaf Essent. Oil		13000.0	1.0	--
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.
9	BETA-AMYRIN	Wood		9.0		--
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.
3	AROMADENDRENE	Leaf Essent. Oil	8600.0	268000.0	1.4141831265968194	--

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3	AROMADENDRENE	Shoot		20000.0	6.313001041104233	--
3	AROMADENDRENE	Leaf	50.0	350.0	-0.40806189308755036	--
3	AROMADENDRENE	Essential Oil				--
3	AROMADENDRENE	Fruit Essent. Oil				--
101	APIGENIN	Leaf				--
32	ALPHA-TOCOPHEROL	Leaf		333.0	-8.863644217758233E-4	--
6	ALPHA-THUJONE	Fruit Essent. Oil				--
23	ALPHA-TERPINEOL	Essential Oil		9000.0	-0.3744746961998452	--
23	ALPHA-TERPINEOL	Fruit Essent. Oil				--
23	ALPHA-TERPINEOL	Leaf Essent. Oil	29000.0	58000.0	0.30722289388192564	--
23	ALPHA-TERPINEOL	Shoot		0.1	-0.2857345982558654	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.
13	ALPHA-TERPINENE	Fruit Essent. Oil				--
13	ALPHA-TERPINENE	Shoot		0.1	-0.48093760228289717	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.
3	ALPHA-SELINENE	Leaf Essent. Oil		2000.0		--
28	ALPHA-PINENE	Essential Oil		52000.0	-0.10249729010199074	--
28	ALPHA-PINENE	Shoot		119000.0	11.720652666165982	--
28	ALPHA-PINENE	Leaf	1250.0	8750.0	0.34354526763390963	--
28	ALPHA-PINENE	Fruit Essent. Oil		40900.0	-0.3076174544185865	--
28	ALPHA-PINENE	Leaf Essent. Oil	5000.0	260000.0	0.6771772357998844	--
11	ALPHA-PHELLANDRENE	Essential Oil		1000.0	-0.5736860307676445	--
11	ALPHA-PHELLANDRENE	Fruit Essent. Oil		83000.0	0.7081332746915394	--
11	ALPHA-PHELLANDRENE	Leaf Essent. Oil	1000.0	343000.0	0.46075475134298666	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	ALPHA-PHELLANDRENE	Shoot		3000.0	7.3085148477973965	--
11	ALPHA-PHELLANDRENE	Leaf				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
1	4-HYDROXY-TRITRIACONTANE-16,18-DIONE	Leaf		6.0		--
1	2,4,6-TRIMETHOXYPHENOL	Bark				--
67	1,8-CINEOLE	Leaf	3500.0	33250.0	3.7465788103160196	--
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	Essential Oil		667000.0	1.9097239164573967	--
67	1,8-CINEOLE	Leaf Essent. Oil	168000.0	691200.0	1.5300608304247285	--
30	(+)-CATECHIN	Leaf				--