

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Eucalyptus citriodora*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	P-METHANE-CIS-3,8-DIOL	Leaf				--
28	ALPHA-PINENE	Shoot				--
60	LIMONENE	Essential Oil				--
51	ELLAGIC-ACID	Bark				Lowry, J. B. 1968. The Distribution and Potential Taxonomic Value of Alkylated Ellagic Acids. <i>Phytochemistry</i> 7 10: 1803-1813
3	AROMADENDRENE	Leaf				Lawrence, B.M., <i>Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.</i>
0	5-HYDROXY-4',7-DIMETHOXY-6,8-DIMETHYLFLAVONE	Leaf				--
0	P-MENTHANE-CIS-3,8-DIOL	Leaf				--
9	CAMPHENE	Leaf Essent. Oil				--
9	BENZYL-ACETATE	Leaf Essent. Oil				--
89	URSOLIC-ACID	Leaf				--
0	ECALYPTIN	Leaf				--
0	3,3'-DI-O-METHYL-ELLAGIC-ACID	Bark				Lowry, J. B. 1968. The Distribution and Potential Taxonomic Value of Alkylated Ellagic Acids. <i>Phytochemistry</i> 7 10: 1803-1813
0	TRITRIACONTAN-16,18-DIONE	Leaf Wax				--
0	7-O-METHYLAROMADENDRIN	Plant				J.S. Glasby <i>Dict.Plis Containing 2ndary Metabolite.</i> 1991.
0	3-O-METHYL-ELLAGIC-ACID	Bark				Lowry, J. B. 1968. The Distribution and Potential Taxonomic Value of Alkylated Ellagic Acids. <i>Phytochemistry</i> 7 10: 1803-1813
9	OXALIC-ACID	Bark				--
0	3-METHOXYAROMADENDRIN	Resin, Exudate, Sap				--
47	BETA-SITOSTEROL	Leaf				--
0	O-METHYLEUCALYPTIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	CITRAL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
19	CARVONE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
67	1,8-CINEOLE	Essential Oil				--
22	MYRCENE	Leaf Essent. Oil				--
1	HYDROXYCITRONELLAL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
28	ALPHA-PINENE	Essential Oil				--
13	BETA-PINENE	Essential Oil				--
63	MENTHOL	Leaf Essent. Oil				--
3	GUAIOL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
61	FERULIC-ACID	Leaf				--
22	BETULINIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
89	URSOLIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
20	CITRONELLAL	Essential Oil				--
18	GUAIACOL	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
76	EUGENOL	Essential Oil				--
22	BETULINIC-ACID	Leaf				--
4	SAKURANETIN	Resin, Exudate, Sap				--
0	EUCALYPTIN-ACETATE	Leaf				--
47	BETA-SITOSTEROL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CITRIODORIN	Leaf				--
76	EUGENOL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BETA-HYDROXYCITRONELLAL	Essential Oil				--
0	EUCALYPTIN	Leaf				--
0	EUDESMOL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EO	Plant				--
3	AROMADENDRIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	7-METHOXYAROMADENDRIN	Resin, Exudate, Sap				--
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.
35	BORNEOL	Shoot		0.1	-0.39869489976509587	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.
3	AROMADENDRENE	Shoot		0.1	-0.18132233610427648	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	ALPHA-PHELLANDRENE	Shoot		0.1	-0.3090941644151568	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	VERBENONE	Shoot		0.1	-0.2571527321307905	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	ALLO-AROMADENDRENE	Shoot		0.1	-0.1869954495858901	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.
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.
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.
22	MYRCENE	Shoot		0.1	-0.34222464567492455	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	LEDOL	Shoot		0.1	-0.21993254021380645	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	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.
0	GLOBULOL	Shoot		0.1	-0.2230980831244183	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.
0	ALPHA-FENCHYL-ALCOHOL	Shoot		0.1	-0.4903066233071515	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	TERPINEN-4-OL	Shoot		0.1	-0.16713897346436285	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.
7	PIPERITONE	Shoot		0.1	-0.22638062620684046	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	BETA-CARYOPHYLENE	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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
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.
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.
0	ALPHA-P-DIMETHYL-STYRENE	Shoot		0.1	-1.0210518370793162	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.
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.
47	BETA-SITOSTEROL	Root		17.0	-0.2754484120940801	--
9	CAMPHENE	Leaf	1.0	20.0	-0.18513314196035818	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
89	URSOLIC-ACID	Root		67.0	1.0	--
5	FUSTIN	Root		83.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	TRANS-PINOCARVEOL	Shoot		85.0	-0.17436574151237388	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	1.0	120.0	-0.1293732386473364	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	CITRONELLYL-ACETATE	Leaf	20.0	130.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	TERPINOLENE	Leaf	5.0	160.0	-0.028274777061727256	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
22	BETULINIC-ACID	Root		167.0	-0.32723020242894685	--
16	P-CYMENE	Leaf	10.0	180.0	-0.25057006213421	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LINALOL	Leaf	15.0	180.0	-0.3359821288942315	--
53	LINALOOL	Leaf	15.0	180.0	-0.5227959969828526	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TERPINENE	Leaf	1.0	180.0	-1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-TERPINYL-ACETATE	Shoot		190.0	-0.21603522466678812	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.
3	AROMADENDRIN	Root		267.0		--
13	BETA-PINENE	Leaf	20.0	300.0	0.01336781361822673	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
28	ALPHA-PINENE	Leaf	5.0	380.0	-0.19987319533034933	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	7-O-METHYLAROMADENDRIN	Root		668.0		--
0	NEO-ISOPULEGOL	Leaf	20.0	680.0	-1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	CARYOPHYLLENE	Leaf	15.0	780.0	-0.23243507090347945	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	BORNEOL	Leaf Essent. Oil		1000.0	-0.6717160378288602	--
23	TERPINEN-4-OL	Leaf Essent. Oil		1000.0	-0.5406868834711872	--
0	SPATHULENOL	Leaf Essent. Oil		1000.0	-1.0161711671763012	--
11	ALPHA-PHELLANDRENE	Leaf Essent. Oil		1000.0	-0.8574494059207024	--
35	GERANIOL	Leaf	250.0	1000.0	0.23399684457505263	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
8	CARYOPHYLLENE-OXIDE	Leaf Essent. Oil		1000.0	-1.3372802814560105	--
2	CITRONELLYL-ACETATE	Shoot		1200.0	4.358662928826771	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	20.0	1420.0	1.046056762223089	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	ALPHA-HUMULENE	Leaf Essent. Oil		2000.0	-0.6471039886127844	--
0	CRYPTONE	Leaf Essent. Oil		3000.0	-1.0	--
9	TERPINOLENE	Leaf Essent. Oil		3000.0	-0.49764555396661486	--
53	LINALOOL	Shoot		3000.0	-0.11096454712265409	--
53	LINALOOL	Leaf Essent. Oil		3000.0	-0.6768515885425165	--
67	1,8-CINEOLE	Leaf	50.0	3580.0	-0.06974461771091683	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
16	P-CYMENE	Shoot		4000.0	2.6695087722036925	--
15	CITRONELLOL	Leaf	230.0	4000.0	2.2356095710654493	--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Leaf Essent. Oil	3000.0	4000.0	-0.7838280847561147	--
60	LIMONENE	Shoot		4000.0	1.7077573607595666	--
60	LIMONENE	Leaf Essent. Oil		5000.0	-0.6561226246926355	--
0	BETA-CUBEBENE	Leaf Essent. Oil		5000.0	-0.27151722480926643	--
16	P-CYMENE	Leaf Essent. Oil	1000.0	5800.0	-0.692534761440564	--
3	ISOPULEGOL	Leaf	35.0	5960.0	2.4484137394913246	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
11	GAMMA-TERPINENE	Shoot		6000.0	3.7512735106236	--
28	ALPHA-PINENE	Leaf Essent. Oil	2900.0	6000.0	-0.7201483597577595	--
0	ISO-ISOPULEGOLE	Leaf Essent. Oil		7000.0		--
0	LINALOOL-ACETATE	Leaf Essent. Oil	2000.0	7500.0	-0.9659400518731338	--
23	ALPHA-TERPINEOL	Shoot		9000.0	8.99383026200346	--
0	LINALOOL-OXIDE	Leaf Essent. Oil		9000.0	-0.14334554477024922	--
0	BICYCLOGERMACRENE	Leaf Essent. Oil		10000.0		--
0	ROSE-OXIDE	Shoot		10000.0	1.0	--
0	EO	Shoot		10500.0	0.018840549396875548	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.
35	TANNIN	Leaf		11600.0	-1.2077381028807002	--
0	ISOPROPYLHEXANE	Leaf Essent. Oil		12000.0		--
11	GAMMA-TERPINENE	Leaf Essent. Oil	2000.0	12000.0	-0.5677373616532569	--
3	BETA-PHELLANDRENE	Leaf Essent. Oil		12000.0	0.07288220829298371	--
87	RUTIN	Leaf		12500.0	-0.2285170026254041	--
13	BETA-PINENE	Leaf Essent. Oil	11600.0	17000.0	-0.2051606962498346	--
13	BETA-PINENE	Shoot		17000.0	1.0697157887932147	--
0	ALPHA-TERPINEOL ACETATE	Shoot		18000.0	-1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
20	CITRONELLAL	Leaf	50.0	18020.0	2.6441768651034985	--
0	EO	Leaf	5000.0	20000.0	0.7445770670718886	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
67	1,8-CINEOLE	Shoot		20000.0	0.1512353485319403	--
31	CARYOPHYLLENE	Leaf Essent. Oil		28000.0	-0.887674564369413	--
67	1,8-CINEOLE	Leaf Essent. Oil	5000.0	32000.0	-0.717969108838231	--
0	BETA-CARYOPHYLLENE	Leaf Essent. Oil	27000.0	35000.0	-0.19751887883201752	--
0	CITRONELLIC-ACID	Shoot		47000.0	4.35889230757669	--
15	CITRONELLOL	Shoot		78000.0	5.9919646233410475	--
0	CITRONELLOL-ACETATE	Leaf Essent. Oil	14000.0	103000.0		--
0	CITRONELLOL-ACETATE	Shoot		114000.0		--
3	ISOPULEGOL	Leaf Essent. Oil	12000.0	229000.0	1.0	--
35	TANNIN	Resin, Exudate, Sap		482000.0	1.4131379750921393	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	CITRONELLOL	Leaf Essent. Oil	56000.0	517000.0	1.3754627990800758	--
20	CITRONELLAL	Shoot		563000.0	4.472076870734973	--
20	CITRONELLAL	Leaf Essent. Oil	320000.0	851000.0	1.0	--