

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Ocimum tenuiflorum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-DELTA-CADINENE	Leaf	1.5	17.0		--
0	(-)-LINALOOL	Leaf	1.6	36.0	-1.0408072704644589	--
0	(-)-TRANS-CARYOPHYLLENE	Leaf	4.5	140.0		--
0	(1S)-ALPHA-PINENE	Leaf	2.3	48.0		--
0	(E)-ANETHOLE	Leaf		0.1	-1.0	Brophy, J.J., Goldsack, R.J., and Clarkson, J.R. 1993. The Essential Oil of <i>Ocimum tenuiflorum</i> L. (Lamiaceae) Growing in Northern Australia, J. Ess. Oil Res. 5: 459-461.
0	(Z)-ALPHA-BISABOLENE	Leaf	160.0	1800.0		--
0	1,2-BIS(4-ALLYL-2-METHOXYPHENOXY)-3-(4-HYDROXY-3-METHOXYPHENYL)-3-METHOXYPROPANE	Plant				--
67	1,8-CINEOLE	Leaf	35.0	1710.0	-0.3102746079505654	--
0	1-(4-HYDROXY-3-METHOXYPHENYL)-1,2,3-TRIS(4-ALLYL-2-METHOXYPHENOXY)PROPANE	Plant				--
0	1-ALLYL-4-(5-ALLYL-2-HYDROXY-3-METHOXYPHENOXY)-3-(4-ALLYL-2-METHOXYPHENOXY)-5-METHOXYBENZENE	Plant				--
4	16-HYDROXY-4,4,10,13-TETRAMETHYL-17-(4-METHYL-PENTYL)-HEXADECANHYDRO-CYCLOPENT[A]PHENANTHREN-3-ONE	Shoot				--
0	3-(5-ALLYL-2-HYDROXY-3-METHOXYPHENYL)-1-(4-HYDROXY-3-METHOXYPHENOXY)-PROP-1-ENE	Plant				--
0	4-ALLYL-1-O-BETA-D-GLUCOPYRANOSYL-2-HYDROXYBENZENE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5-ALLYL-3-(4-ALLYL-2-METHOXYPHENOXYMETHYL)-2-(4-HYDROXY-3-METHOXYPHENYL)-7-METHOXY-2,3-DIHYDROBENZOFURAN	Plant				--
0	6-ALLYL-3',8-DIMETHOXY-FLAVAN-3,4'-DIOL	Plant				--
0	6-ALLYL-3-(4-ALLYL-2-METHOXYPHENOXY)-3',8-DIMETHOXYFLAVAN-4'-OL	Plant				--
16	ACETIC-ACID	Plant				--
0	ALDEHYDES	Leaf	900.0	1750.0	0.06705140558869455	--
0	ALKALOIDS	Leaf				--
2	ALPHA-HUMULENE	Leaf	9.0	205.0	-0.11985370698018302	--
15	ALPHA-LINOLENIC-ACID	Seed				--
28	ALPHA-PINENE	Leaf				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	ANTISTAPHYLOCOAGULASE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
101	APIGENIN	Leaf				--
0	APIGENIN-7-O-BETA-D-GLUCOPYRANOSIDE	Leaf				--
0	APIGENIN-7-O-BETA-D-GLUCURONIC-ACID	Leaf				--
0	APIGENIN-7-O-BETA-D-GLUCURONIC-ACID-6''-METHYL-ESTER	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	APIGENIN-7-O-GLUCURONIDE	Leaf				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
112	ASCORBIC-ACID	Leaf		830.0	-0.3669066733430616	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ASH	Seed		2000.0	-1.379965080673079	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ASH	Plant		97500.0	-0.42477787653623456	--
6	BETA-BISABOLENE	Leaf	0.0	2970.0	2.806518767234007	--
53	BETA-CAROTENE	Leaf		25.0	-1.0290654853904624	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	BETA-CARYOPHYLLENE	Leaf	30.0	3060.0	1.163403112593341	--
5	BETA-ELEMENE	Leaf	120.0	1080.0	5.252587581892528	--
13	BETA-PINENE	Leaf				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
47	BETA-SITOSTEROL	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	BORNEOL	Leaf		240.0	-0.17842991232276373	Brophy, J.J., Goldsack, R.J., and Clarkson, J.R. 1993. The Essential Oil of Ocimum tenuiflorum L. (Lamiaceae) Growing in Northern Australia, J. Ess. Oil Res. 5: 459-461.
28	CALCIUM	Leaf		31500.0	0.8925516886357363	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
9	CAMPHENE	Leaf		65.0	-0.16812373568216654	Brophy, J.J., Goldsack, R.J., and Clarkson, J.R. 1993. The Essential Oil of Ocimum tenuiflorum L. (Lamiaceae) Growing in Northern Australia, J. Ess. Oil Res. 5: 459-461.
41	CAMPHOR	Leaf				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	CARBOHYDRATES	Plant	479800.0	711500.0	0.2517758188844352	--
2	CARNOSIC-ACID	Leaf	150.0	230.0	-0.8320242089374966	--
2	CARNOSIC-ACID	Inflorescence	100.0	120.0		--
2	CARNOSIC-ACID	Stem	90.0	150.0		--
37	CARVACROL	Leaf	180.0	210.0	-0.255092646921473	--
8	CARYOPHYLLENE-OXIDE	Leaf	100.0	1260.0	5.030102690692117	--
0	CEREBROSIDES	Leaf				--
0	CHAVIBETOL	Leaf	700.0	6300.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CINEOLE	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
10	CIRSILINEOL	Leaf				--
0	CIRSIMARITRIN	Leaf				--
53	CITRAL	Plant				--
0	DECYL-ALDEHYDE	Leaf				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	DOLICHOLS	Root				--
0	EO	Leaf	1000.0	9000.0	-0.2229808302333495	--
12	ESTRAGOLE	Plant				--
13	EUCALYPTOL	Leaf	35.0	540.0		--
76	EUGENOL	Stem	20.0	100.0	-1.0	--
76	EUGENOL	Leaf	45.0	5580.0	-0.16060006975880922	--
76	EUGENOL	Inflorescence		0.0		--
5	EUGENOL-METHYL-ETHER	Leaf	1200.0	1400.0	-0.07470211141938432	--
0	FAT	Plant		21700.0	-0.4385478780521028	--
0	FAT	Seed		155000.0	-0.5814509286178364	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Plant		231700.0	0.06575363483630421	--
13	FORMIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GAMMA-SELINENE	Leaf				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
13	GERANIAL	Plant	350.0	3150.0	1.2324614847213144	--
0	GLYCOSIDES	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	HEXOURNIC-ACID	Seed		272000.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	ISOTHYMONIN	Leaf				--
1	ISOTHYMUSIN	Leaf	50.0	230.0		--
1	ISOTHYMUSIN	Stem	50.0	190.0		--
60	LIMONENE	Leaf		145.0	-0.2952441192704643	Brophy, J.J., Goldsack, R.J., and Clarkson, J.R. 1993. The Essential Oil of Ocimum tenuiflorum L. (Lamiaceae) Growing in Northern Australia, J. Ess. Oil Res. 5: 459-461.
0	LINALOL	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
27	LINOLEIC-ACID	Seed		102455.0	-0.039989004070815404	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	LINOLENIC-ACID	Seed		24355.0	-0.15468420565300414	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
78	LUTEOLIN	Leaf	190.0	460.0	-0.5612365860291112	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	LUTEOLIN-5-O-BETA-D-GLUCOPYRANOSIDE	Leaf				--
0	LUTEOLIN-7-O-BETA-D-GLUCOPYRANOSIDE	Leaf				--
0	LUTEOLIN-7-O-BETA-D-GLUCURONIC-ACID-6"-METHYL-ESTER	Leaf				--
0	LUTEOLIN-7-O-GLUCURONIDE	Leaf				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
6	METHYL-CHAVICOL	Leaf	20.0	7030.0	0.7651583753679776	--
20	METHYL-EUGENOL	Leaf	130.0	7740.0	0.35597222575115295	--
0	METHYL-HOMOANISIC-ACID	Plant				Perry, Lily M. 1980. Medicinal Plants of East and Southeast Asia. MIT Press. Cambridge, Massachusets. 620 pp.
0	MOLLUDISTIN	Leaf				--
0	MONOTERPENES	Plant				--
3	MUCILAGE	Seed				--
22	MYRCENE	Leaf		8.0	-0.1697887250522355	Brophy, J.J., Goldsack, R.J., and Clarkson, J.R. 1993. The Essential Oil of Ocimum tenuiflorum L. (Lamiaceae) Growing in Northern Australia, J. Ess. Oil Res. 5: 459-461.
0	NEOLIGNANS	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	NERAL	Plant	350.0	3150.0	2.137938727232355	--
10	NEROL	Leaf				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	OCIMARIN	Leaf				--
0	OCIMUMOSIDE-A	Leaf				--
0	OCIMUMOSIDE-B	Leaf				--
64	OLEANOLIC-ACID	Leaf	0.0	2180.0	0.48616864159101425	--
18	OLEIC-ACID	Seed		13950.0	-0.8644230207227481	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	ORIENTIN	Leaf				--
0	OXALATES	Leaf		49700.0	1.6800873676649628	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
13	PALMITIC-ACID	Seed		10700.0	-0.47882533106086284	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PENTOSEs	Seed		389000.0	0.7071067811865476	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PHENOLS	Leaf	3000.0	5320.0	-0.38795635639879505	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PHENYLPROPANOIDS	Plant				--
4	PHOSPHORUS	Leaf		3400.0	-0.28912717130270255	=ICMR(Indian Council of Medical Research). 1976. Medicinal Plants of India. Vol.1. Indian Council of Med. Res. Cambridge Printing Works, New Delhi. 487 pp; ICMR. 1987. Medicinal Plants of India. Vol.2. Indian Council of Med. Res. Cambr. Printing Works, New Delhi. 600pp
2	PHYTOSTEROLS	Plant				--
0	POLYISOPRENOID-ALCOHOLS	Root				--
0	PROTEIN	Seed		138000.0	-0.8521556313067219	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PROTEIN	Plant		73700.0	-0.8175722481257919	--
57	ROSMARINIC-ACID	Inflorescence	0.0	100.0	-1.5804064262841226	--
57	ROSMARINIC-ACID	Stem	80.0	340.0	-0.9890524615412883	--
57	ROSMARINIC-ACID	Leaf	200.0	300.0	-0.9706508212994431	--
5	SAPONINS	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
9	SINAPIC-ACID	Stem		0.0		--
9	SINAPIC-ACID	Leaf	530.0	550.0	2.2060948370416993	--
9	SINAPIC-ACID	Inflorescence	0.0	100.0		--
8	STEARIC-ACID	Seed		3255.0	-0.4947675932777038	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	TANNIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
23	TERPINEN-4-OL	Leaf				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
9	TERPINOLENE	Leaf		55.0	-0.162031523677454	Brophy, J.J., Goldsack, R.J., and Clarkson, J.R. 1993. The Essential Oil of Ocimum tenuiflorum L. (Lamiaceae) Growing in Northern Australia, J. Ess. Oil Res. 5: 459-461.
0	TETRACYCLIC-TRITERPENOID	Shoot				--
89	URSOLIC-ACID	Plant				--
89	URSOLIC-ACID	Stem	20.0	100.0	-1.1136867413673455	--
89	URSOLIC-ACID	Leaf	2520.0	4780.0	-0.3079735814491711	--
89	URSOLIC-ACID	Inflorescence	10.0	30.0		--
3	VICENIN	Plant				--
12	VICENIN-2	Plant				--
0	WATER	Plant		74800.0	-2.980173104434592	--
3	XYLOSE	Seed				--