

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Ocimum tenuiflorum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	ALPHA-LINOLENIC-ACID	Seed				--
0	APIGENIN-7-O-BETA-D-GLUCURONIC-ACID	Leaf				--
12	VICENIN-2	Plant				--
0	CINEOLE	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	1-(4-HYDROXY-3-METHOXYPHENYL)-1,2,3-TRIS(4-ALLYL-2-METHOXYPHENOXY)PROPANE	Plant				--
9	TERPINOLENE	Leaf		55.0	-0.162031523677454	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.
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	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.
0	APIGENIN-7-O-BETA-D-GLUCOPYRANOSIDE	Leaf				--
3	VICENIN	Plant				--
3	XYLOSE	Seed				--
13	FORMIC-ACID	Plant				--
5	SAPONINS	Plant				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
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	ASH	Plant		97500.0	-0.42477787653623456	--
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.
101	APIGENIN	Leaf				--
0	TETRACYCLIC-TRITERPENOID	Shoot				--
15	FIBER	Plant		231700.0	0.06575363483630421	--
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
76	EUGENOL	Inflorescence		0.0		--
0	3-(5-ALLYL-2-HYDROXY-3-METHOXYPHENYL)-1-(4-HYDROXY-3-METHOXYPHENOXY)-PROP-1-ENE	Plant				--
3	MUCILAGE	Seed				--
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	ANTISTAPHYLOCOAGULASE	Seed				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	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FAT	Plant		21700.0	-0.4385478780521028	--
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	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	6-ALLYL-3',8-DIMETHOXY-FLAVAN-3,4'-DIOL	Plant				--
0	MOLLUDISTIN	Leaf				--
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
0	4-ALLYL-1-O-BETA-D-GLUCOPYRONSYL-2-HYDROXYBENZENE	Leaf				--
0	POLYISOPRENOID-ALCOHOLS	Root				--
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
0	CIRSIMARITRIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LINALOL	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
16	ACETIC-ACID	Plant				--
0	METHYL-HOMOANISIC-ACID	Plant				Perry, Lily M. 1980. Medicinal Plants of East and Southeast Asia. MIT Press, Cambridge, Massachusetts. 620 pp.
4	ISOTHYMONIN	Leaf				--
0	ALKALOIDS	Leaf				--
2	PHYTOSTEROLS	Plant				--
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
12	ESTRAGOLE	Plant				--
4	ORIENTIN	Leaf				--
10	CIRSILINEOL	Leaf				--
0	5-ALLYL-3-(4-ALLYL-2-METHOXYPHENOXYMETHYL)-2-(4-HYDROXY-3-METHOXYPHENYL)-7-METHOXY-2,3-DIHYDROBENZOFURAN	Plant				--
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

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	PHENYLPROPANOIDS	Plant				--
35	TANNIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	HEXOURONIC-ACID	Seed		272000.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	DOLICHOLS	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.
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.
0	1,2-BIS(4-ALLYL-2-METHOXYPHENOXY)-3-(4-HYDROXY-3-METHOXYPHENYL)-3-METHOXYPROPANE	Plant				--
0	LUTEOLIN-7-O-BETA-D-GLUCURONIC-ACID-6"-METHYL-ESTER	Leaf				--
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.
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	NEOLIGNANS	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
47	BETA-SITOSTEROL	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	GLYCOSIDES	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
53	CITRAL	Plant				--
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
0	6-ALLYL-3-(4-ALLYL-2-METHOXYPHENOXY)-3',8-DIMETHOXYFLAVAN-4'-OL	Plant				--
0	LUTEOLIN-5-O-BETA-D-GLUCOPYRANOSIDE	Leaf				--
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	MONOTERPENES	Plant				--
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
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
0	OCIMUMOSIDE-B	Leaf				--
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	LUTEOLIN-7-O-BETA-D-GLUCOPYRANOSIDE	Leaf				--
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
0	1-ALLYL-4-(5-ALLYL-2-HYDROXY-3-METHOXYPHENOXY)-3-(4-ALLYL-2-METHOXYPHENOXY)-5-METHOXYBENZENE	Plant				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	16-HYDROXY-4,4,10,13-TETRAMETHYL-17-(4-METHYL-PENTYL)-HEXADECAHYDRO-CYCLOPENTA[A]PHENANTHREN-3-ONE	Shoot				--
9	SINAPIC-ACID	Stem		0.0		--
0	FAT	Seed		155000.0	-0.5814509286178364	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	OCIMUMOSIDE-A	Leaf				--
0	CEREBROSIDES	Leaf				--
0	APIGENIN-7-O-BETA-D-GLUCURONIC-ACID-6"-METHYL-ESTER	Leaf				--
0	WATER	Plant		74800.0	-2.980173104434592	--
89	URSOLIC-ACID	Plant				--
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.
0	PENTOSE	Seed		389000.0	0.7071067811865476	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	OCIMARIN	Leaf				--
0	(E)-ANETHOLE	Leaf		0.1	-1.0	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.
9	SINAPIC-ACID	Inflorescence	0.0	100.0		--
6	BETA-BISABOLENE	Leaf	0.0	2970.0	2.806518767234007	--
57	ROSMARINIC-ACID	Inflorescence	0.0	100.0	-1.5804064262841226	--
64	OLEANOLIC-ACID	Leaf	0.0	2180.0	0.48616864159101425	--
0	(+)-DELTA-CADINENE	Leaf	1.5	17.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	(-)-LINALOOL	Leaf	1.6	36.0	-1.0408072704644589	--
0	(1S)-ALPHA-PINENE	Leaf	2.3	48.0		--
0	(-)-TRANS-CARYOPHYLLENE	Leaf	4.5	140.0		--
2	ALPHA-HUMULENE	Leaf	9.0	205.0	-0.11985370698018302	--
89	URSOLIC-ACID	Inflorescence	10.0	30.0		--
76	EUGENOL	Stem	20.0	100.0	-1.0	--
89	URSOLIC-ACID	Stem	20.0	100.0	-1.1136867413673455	--
6	METHYL-CHAVICOL	Leaf	20.0	7030.0	0.7651583753679776	--
0	BETA-CARYOPHYLLENE	Leaf	30.0	3060.0	1.163403112593341	--
13	EUCALYPTOL	Leaf	35.0	540.0		--
67	1,8-CINEOLE	Leaf	35.0	1710.0	-0.3102746079505654	--
76	EUGENOL	Leaf	45.0	5580.0	-0.16060006975880922	--
1	ISOTHYMUSIN	Leaf	50.0	230.0		--
1	ISOTHYMUSIN	Stem	50.0	190.0		--
57	ROSMARINIC-ACID	Stem	80.0	340.0	-0.9890524615412883	--
2	CARNOSIC-ACID	Stem	90.0	150.0		--
2	CARNOSIC-ACID	Inflorescence	100.0	120.0		--
8	CARYOPHYLLENE-OXIDE	Leaf	100.0	1260.0	5.030102690692117	--
5	BETA-ELEMENE	Leaf	120.0	1080.0	5.252587581892528	--
20	METHYL-EUGENOL	Leaf	130.0	7740.0	0.35597222575115295	--
2	CARNOSIC-ACID	Leaf	150.0	230.0	-0.8320242089374966	--
0	(Z)-ALPHA-BISABOLENE	Leaf	160.0	1800.0		--
37	CARVACROL	Leaf	180.0	210.0	-0.255092646921473	--

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
57	ROSMARINIC-ACID	Leaf	200.0	300.0	-0.9706508212994431	--
4	NERAL	Plant	350.0	3150.0	2.137938727232355	--
13	GERANIAL	Plant	350.0	3150.0	1.2324614847213144	--
9	SINAPIC-ACID	Leaf	530.0	550.0	2.2060948370416993	--
0	CHAVIBETOL	Leaf	700.0	6300.0		--
0	ALDEHYDES	Leaf	900.0	1750.0	0.06705140558869455	--
0	EO	Leaf	1000.0	9000.0	-0.2229808302333495	--
5	EUGENOL-METHYL-ETHER	Leaf	1200.0	1400.0	-0.07470211141938432	--
89	URSOLIC-ACID	Leaf	2520.0	4780.0	-0.3079735814491711	--
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	CARBOHYDRATES	Plant	479800.0	711500.0	0.2517758188844352	--