

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Ocimum tenuiflorum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	BETA-ELEMENE	Leaf	120.0	1080.0	5.252587581892528	--
8	CARYOPHYLLENE-OXIDE	Leaf	100.0	1260.0	5.030102690692117	--
6	BETA-BISABOLENE	Leaf	0.0	2970.0	2.806518767234007	--
9	SINAPIC-ACID	Leaf	530.0	550.0	2.2060948370416993	--
4	NERAL	Plant	350.0	3150.0	2.137938727232355	--
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	GERANIAL	Plant	350.0	3150.0	1.2324614847213144	--
0	BETA-CARYOPHYLLENE	Leaf	30.0	3060.0	1.163403112593341	--
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
6	METHYL-CHAVICOL	Leaf	20.0	7030.0	0.7651583753679776	--
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.
64	OLEANOLIC-ACID	Leaf	0.0	2180.0	0.48616864159101425	--
20	METHYL-EUGENOL	Leaf	130.0	7740.0	0.35597222575115295	--
0	CARBOHYDRATES	Plant	479800.0	711500.0	0.2517758188844352	--
0	ALDEHYDES	Leaf	900.0	1750.0	0.06705140558869455	--
15	FIBER	Plant		231700.0	0.06575363483630421	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
5	EUGENOL-METHYL-ETHER	Leaf	1200.0	1400.0	-0.07470211141938432	--
2	ALPHA-HUMULENE	Leaf	9.0	205.0	-0.11985370698018302	--
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.
76	EUGENOL	Leaf	45.0	5580.0	-0.16060006975880922	--
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.
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.
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.
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	EO	Leaf	1000.0	9000.0	-0.2229808302333495	--
37	CARVACROL	Leaf	180.0	210.0	-0.255092646921473	--

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
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.
89	URSOLIC-ACID	Leaf	2520.0	4780.0	-0.3079735814491711	--
67	1,8-CINEOLE	Leaf	35.0	1710.0	-0.3102746079505654	--
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	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	ASH	Plant		97500.0	-0.42477787653623456	--
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.
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
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	FAT	Seed		155000.0	-0.5814509286178364	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Plant		73700.0	-0.8175722481257919	--
2	CARNOSIC-ACID	Leaf	150.0	230.0	-0.8320242089374966	--
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.
57	ROSMARINIC-ACID	Leaf	200.0	300.0	-0.9706508212994431	--
57	ROSMARINIC-ACID	Stem	80.0	340.0	-0.9890524615412883	--
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.
76	EUGENOL	Stem	20.0	100.0	-1.0	--
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	(-)-LINALOOL	Leaf	1.6	36.0	-1.0408072704644589	--
89	URSOLIC-ACID	Stem	20.0	100.0	-1.1136867413673455	--

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.
57	ROSMARINIC-ACID	Inflorescence	0.0	100.0	-1.5804064262841226	--
0	WATER	Plant		74800.0	-2.980173104434592	--
0	CEREBROSIDES	Leaf				--
12	ESTRAGOLE	Plant				--
0	OCIMUMOSIDE-A	Leaf				--
0	APIGENIN-7-O-BETA-D-GLUCURONIC-ACID-6"-METHYL-ESTER	Leaf				--
0	5-ALLYL-3-(4-ALLYL-2-METHOXYPHENOXYMETHYL)-2-(4-HYDROXY-3-METHOXYPHENYL)-7-METHOXY-2,3-DIHYDROBENZOFURAN	Plant				--
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	DOLICHOLS	Root				--
0	OCIMARIN	Leaf				--
15	ALPHA-LINOLENIC-ACID	Seed				--
0	APIGENIN-7-O-BETA-D-GLUCURONIC-ACID	Leaf				--
0	1,2-BIS(4-ALLYL-2-METHOXYPHENOXY)-3-(4-HYDROXY-3-METHOXYPHENYL)-3-METHOXYPROPANE	Plant				--
0	NEOLIGNANS	Plant				--
47	BETA-SITOSTEROL	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
53	CITRAL	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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
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	APIGENIN-7-O-BETA-D-GLUCOPYRANOSIDE	Leaf				--
0	6-ALLYL-3-(4-ALLYL-2-METHOXYPHENOXY)-3',8-DIMETHOXYFLAVAN-4'-OL	Plant				--
0	MONOTERPENES	Plant				--
2	CARNOSIC-ACID	Inflorescence	100.0	120.0		--
2	CARNOSIC-ACID	Stem	90.0	150.0		--
0	(1S)-ALPHA-PINENE	Leaf	2.3	48.0		--
101	APIGENIN	Leaf				--
0	1-ALLYL-4-(5-ALLYL-2-HYDROXY-3-METHOXYPHENOXY)-3-(4-ALLYL-2-METHOXYPHENOXY)-5-METHOXYBENZENE	Plant				--
76	EUGENOL	Inflorescence		0.0		--
4	16-HYDROXY-4,4,10,13-TETRAMETHYL-17-(4-METHYL-PENTYL)-HEXADECAHYDRO-CYCLOPENTA[A]PHENANTHREN-3-ONE	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	SINAPIC-ACID	Stem		0.0		--
0	(-)-TRANS-CARYOPHYLLENE	Leaf	4.5	140.0		--
3	MUCILAGE	Seed				--
1	ISOTHYMUSIN	Leaf	50.0	230.0		--
0	ANTISTAPHYLOCOAGULASE	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
89	URSOLIC-ACID	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	(+)-DELTA-CADINENE	Leaf	1.5	17.0		--
0	MOLLUDISTIN	Leaf				--
1	ISOTHYMUSIN	Stem	50.0	190.0		--
12	VICENIN-2	Plant				--
0	4-ALLYL-1-O-BETA-D-GLUCOPYRONSYL-2-HYDROXYBENZENE	Leaf				--
0	CINEOLE	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	CIRSIMARITRIN	Leaf				--
0	1-(4-HYDROXY-3-METHOXYPHENYL)-1,2,3-TRIS(4-ALLYL-2-METHOXYPHENOXY)PROPANE	Plant				--
0	LINALOL	Leaf				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	SINAPIC-ACID	Inflorescence	0.0	100.0		--
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				--
3	VICENIN	Plant				--
0	ALKALOIDS	Leaf				--
3	XYLOSE	Seed				--
4	ORIENTIN	Leaf				--
10	CIRSILINEOL	Leaf				--
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.
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
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	TETRACYCLIC-TRITERPENOID	Shoot				--

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
0	LUTEOLIN-7-O-BETA-D-GLUCURONIC-ACID-6"-METHYL-ESTER	Leaf				--
0	3-(5-ALLYL-2-HYDROXY-3-METHOXYPHENYL)-1-(4-HYDROXY-3-METHOXYPHENOXY)-PROP-1-ENE	Plant				--
0	GLYCOSIDES	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	LUTEOLIN-5-O-BETA-D-GLUCOPYRANOSIDE	Leaf				--
0	(Z)-ALPHA-BISABOLENE	Leaf	160.0	1800.0		--
0	6-ALLYL-3',8-DIMETHOXY-FLAVAN-3,4'-DIOL	Plant				--
0	POLYISOPRENOID-ALCOHOLS	Root				--
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
89	URSOLIC-ACID	Inflorescence	10.0	30.0		--
0	OCIMUMOSIDE-B	Leaf				--
0	CHAVIBETOL	Leaf	700.0	6300.0		--
13	EUCALYPTOL	Leaf	35.0	540.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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
16	ACETIC-ACID	Plant				--
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