

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	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				--
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

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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		--
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
0	OCIMUMOSIDE-A	Leaf				--
0	CEREBROSIDES	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	ESTRAGOLE	Plant				--
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				--
35	TANNIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PHENYLPROPANOIDS	Plant				--
0	OCIMARIN	Leaf				--
0	DOLICHOLS	Root				--
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				--
47	BETA-SITOSTEROL	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	NEOLIGNANS	Plant				--
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
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
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				--
9	SINAPIC-ACID	Stem		0.0		--
76	EUGENOL	Inflorescence		0.0		--
4	16-HYDROXY-4,4,10,13-TETRAMETHYL-17-(4-METHYL-PENTYL)-HEXADECAHYDRO-CYCLOPENTA[A]PHENANTHREN-3-ONE	Shoot				--
3	MUCILAGE	Seed				--
0	(-)-TRANS-CARYOPHYLLENE	Leaf	4.5	140.0		--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	MOLLUDISTIN	Leaf				--
0	(+)-DELTA-CADINENE	Leaf	1.5	17.0		--
1	ISOTHYMUSIN	Stem	50.0	190.0		--
12	VICENIN-2	Plant				--
0	4-ALLYL-1-O-BETA-D-GLUCOPYRONOSYL-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.
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				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	WATER	Plant		74800.0	-2.980173104434592	--
57	ROSMARINIC-ACID	Inflorescence	0.0	100.0	-1.5804064262841226	--
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.
89	URSOLIC-ACID	Stem	20.0	100.0	-1.1136867413673455	--
0	(-)-LINALOOL	Leaf	1.6	36.0	-1.0408072704644589	--
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	(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	--
57	ROSMARINIC-ACID	Stem	80.0	340.0	-0.9890524615412883	--
57	ROSMARINIC-ACID	Leaf	200.0	300.0	-0.9706508212994431	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	PROTEIN	Seed		138000.0	-0.8521556313067219	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	CARNOSIC-ACID	Leaf	150.0	230.0	-0.8320242089374966	--
0	PROTEIN	Plant		73700.0	-0.8175722481257919	--
0	FAT	Seed		155000.0	-0.5814509286178364	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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
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.
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	FAT	Plant		21700.0	-0.4385478780521028	--
0	ASH	Plant		97500.0	-0.42477787653623456	--
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.
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
67	1,8-CINEOLE	Leaf	35.0	1710.0	-0.3102746079505654	--
89	URSOLIC-ACID	Leaf	2520.0	4780.0	-0.3079735814491711	--
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.
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
37	CARVACROL	Leaf	180.0	210.0	-0.255092646921473	--
0	EO	Leaf	1000.0	9000.0	-0.2229808302333495	--
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.
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.
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.
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
76	EUGENOL	Leaf	45.0	5580.0	-0.16060006975880922	--
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.
2	ALPHA-HUMULENE	Leaf	9.0	205.0	-0.11985370698018302	--
5	EUGENOL-METHYL-ETHER	Leaf	1200.0	1400.0	-0.07470211141938432	--
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.
15	FIBER	Plant		231700.0	0.06575363483630421	--
0	ALDEHYDES	Leaf	900.0	1750.0	0.06705140558869455	--
0	CARBOHYDRATES	Plant	479800.0	711500.0	0.2517758188844352	--
20	METHYL-EUGENOL	Leaf	130.0	7740.0	0.35597222575115295	--
64	OLEANOLIC-ACID	Leaf	0.0	2180.0	0.48616864159101425	--
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.
6	METHYL-CHAVICOL	Leaf	20.0	7030.0	0.7651583753679776	--
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	BETA-CARYOPHYLLENE	Leaf	30.0	3060.0	1.163403112593341	--
13	GERANIAL	Plant	350.0	3150.0	1.2324614847213144	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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
4	NERAL	Plant	350.0	3150.0	2.137938727232355	--
9	SINAPIC-ACID	Leaf	530.0	550.0	2.2060948370416993	--
6	BETA-BISABOLENE	Leaf	0.0	2970.0	2.806518767234007	--
8	CARYOPHYLLENE-OXIDE	Leaf	100.0	1260.0	5.030102690692117	--
5	BETA-ELEMENE	Leaf	120.0	1080.0	5.252587581892528	--