

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Illicium verum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EO	Fruit	50000.0	100000.0	1.1237392472820933	--
8	TRANS-ANETHOLE	Fruit	39000.0	90000.0	1.1964785706689915	--
6	METHYL-CHAVICOL	Fruit	280.0	6500.0	1.6395394202053375	--
0	FOENICULIN	Fruit	275.0	2550.0	1.0	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	FENICULIN	Fruit	275.0	2550.0		--
0	LINALOL	Fruit	250.0	1400.0	-0.39934707646416534	--
53	LINALOOL	Fruit	250.0	1400.0	-0.19419566732610075	--
3	BETA-PHELLANDRENE	Fruit	220.0	835.0	-0.32838402926570937	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
11	P-ANISALDEHYDE	Fruit	190.0	850.0		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
60	LIMONENE	Fruit	100.0	5220.0	-0.001567908370633259	--
23	ALPHA-TERPINEOL	Fruit	85.0	200.0	-0.24394016685691888	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
31	CARYOPHYLLENE	Fruit	85.0	3600.0	-0.28877451025385453	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	P-METHOXY-PROPAN-2-ONE	Plant	75.0	100.0		--
28	ALPHA-PINENE	Fruit	50.0	1310.0	-0.37676809473778544	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
22	MYRCENE	Fruit	40.0	200.0	-0.35335111300595534	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-COPAENE	Fruit	25.0	1100.0	0.8069312947413789	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
8	DELTA-3-CARENE	Fruit	25.0	465.0	0.16468350849180752	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
9	TERPINOLENE	Fruit	5.0	435.0	2.1751130365868003	--
3	CINNAMIC-ALCOHOL	Fruit	1.0	50.0		--
2	METHYL-ANISATE	Fruit	1.0	300.0		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
2	ALPHA-HUMULENE	Fruit	1.0	900.0	-0.1468774248768592	--
0	TRANS-ALPHA-BERGAMOTENE	Plant	1.0	160.0	1.0	--
5	BETA-ELEMENE	Fruit	1.0	650.0	0.32349269549885196	--
23	TERPINEN-4-OL	Fruit	1.0	100.0	-0.3432015870721531	--
16	P-CYMENE	Fruit	1.0	100.0	-0.5665290281676088	--
6	BETA-BISABOLENE	Fruit	1.0	75.0	-0.8681433142470081	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	TRANS-ALPHA-BERGAMOTENE	Fruit	1.0	160.0		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
11	GAMMA-TERPINENE	Fruit	1.0	75.0	-0.6375226687664852	--
0	CIS-BETA-FARNESENE	Fruit	1.0	40.0		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
5	SABINENE	Fruit	1.0	20.0	-0.5293209898523012	--
1	CIS-ANETHOLE	Fruit	1.0	140.0	-1.1111677990074325	--
67	1,8-CINEOLE	Fruit	1.0	3500.0	-0.22091954195410496	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CIS-ALPHA-BERGAMOTENE	Fruit	1.0	50.0		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	TRANS-METHYL-ISOEUGENOL	Fruit	0.0	60.0		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ALPHA-SANTALENE	Fruit		1.0		--
0	CHAVICOL-METHYL-ETHER	Fruit				--
19	CARVONE	Fruit		1.0	-0.5005078391494944	--
6	FENCHONE	Fruit		1.0	-1.0	--
0	1,4-CINEOLE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	QUERCETIN-3-O-GLYCOSIDE	Plant				--
0	QUERCETIN-3-O-RUTINOSIDE	Plant				--
34	PROANTHOCYANIDINS	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	CATECHINS	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
9	CAMPHENE	Fruit		1.0	-0.3513902756128656	--
12	ESTRAGOLE	Fruit				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
1	QUERCETIN-3-O-RHAMNOSIDE	Plant				--
0	CALAMENE	Fruit		650.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	PHYTOSTEROLS	Fruit		1140.0	0.250731831904602	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
11	ALPHA-PHELLANDRENE	Fruit		435.0	-0.35734391683141264	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
2	CAMPESTEROL	Fruit		130.0	0.4446111353105388	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
0	EO	Seed		25000.0	-0.23445244448594577	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	QUERCETIN-3-O-GLYCOSIDE	Plant				--
0	BETA-SELININE	Fruit		1.0		--
2	P-METHOXYCINNAMALDEHYDE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	LONGIFOLENE	Fruit		1.0		--
0	ALPHA-MUUROLENE	Fruit		1.0	-0.7365604334696394	--
47	BETA-SITOSTEROL	Fruit		930.0	0.427668247328855	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
2	TRANS-BETA-FARNESENE	Fruit		1.0		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	EO	Leaf		10000.0	-0.13502102138741875	--
0	QUERCETIN-3-O-GALACTOSIDE	Plant				--
13	BETA-PINENE	Plant		1.0	-0.4344068758722416	--
2	L-LIMONENE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Fruit		1.0	-0.2978113268433539	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
8	ANISATIN	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
32	HYDROQUINONE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	KAEMPFEROL-3-O-RUTINOSIDE	Plant				--
0	ALPHA-CUBEBENE	Fruit		200.0	-0.6078151010929145	--
36	ANETHOLE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
9	DELTA-CADINENE	Fruit		1.0	-0.46751702950182594	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	P-METHOXY-PHENYL-PROPAN-2-ONE	Fruit		50.0		--
0	KAEMPFEROL-3-O-RUTINOSIDE	Fruit				--
0	KAEMPFEROL-3-O-GLUCOSIDE	Plant				--
29	SAFROLE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	P-CYMENE-8-OL	Fruit		200.0	1.0	--
0	BETA-COPAENE	Fruit		500.0		--
0	DL-LIMONENE	Fruit				--
1	KAEMPFEROL-3-O-GALACTOSIDE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	KAEMPFEROL-3-O-GALACTOSIDE	Plant				--
0	ALLO-AROMADENDRENE	Fruit		1050.0	-0.39901197412390677	--
4	KAEMPFEROL-3-O-GLUCOSIDE	Plant				--
0	CIS-BETA-OCIMENE	Fruit		100.0		--
0	D-PINENE	Fruit				--
0	4-(BETA-D-GLUCOPYRANOSYLOXY)-BENZOIC-ACID	Fruit				--
0	QUERCETIN-3-O-XYLOSIDE	Plant				--
35	TANNIN	Fruit				--
29	SAFROLE	Plant				--
19	D-LIMONENE	Fruit				--
0	FLAVONOL-GLYCOSIDES	Fruit		300.0	1.0	--
0	1-METHYL-4-ISOPROPENYL-BENZENE	Fruit		1.0		--
0	QUERCETIN-3-O-RUTINOSIDE	Plant				--
12	STIGMASTEROL	Fruit		80.0	-0.06288386874087785	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
11	NEROLIDOL	Fruit		50.0	-0.7067205673245923	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
13	ALPHA-TERPINENE	Fruit		70.0	-0.06869957682378398	--
0	D-FENCHONE	Fruit				--
2	QUERCETIN-3-O-GALACTOSIDE	Plant				--
0	QUERCETIN-3-O-XYLOSIDE	Plant				--
87	RUTIN	Fruit				--