

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vitex agnus-castus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PROTEIN	Seed	54000.0	81000.0	-1.3592001503550157	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FAT	Seed	38000.0	100000.0	-0.8711556020733713	--
0	EO	Fruit	4000.0	12000.0	-0.5867177602418251	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of <i>Vitex agnus-castus</i> L. J. Essential Oil Research, 2: 115-119.
1	AGNUSIDE	Leaf	3000.0	6000.0		--
20	AUCUBIN	Leaf	3000.0	4000.0	-0.1719118353444105	--
0	EO	Flower	3000.0	7600.0	-0.1703017891517936	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
67	1,8-CINEOLE	Fruit	600.0	4225.0	-0.1789556977792473	--
13	BETA-PINENE	Fruit	600.0	4000.0	-0.1696921851991317	--
60	LIMONENE	Fruit	590.0	4000.0	-0.17653645241247798	--
0	ROTUNDIFURAN	Fruit	400.0	3000.0		--
0	6-BETA-7-BETA-DIACETOXY-13-HYDROXY-LABDA-8,14-DIEN	Fruit	200.0	1000.0		--
5	SABINENE	Fruit	80.0	800.0	-0.2843328344160924	--
41	CAMPHOR	Fruit	80.0	800.0	0.6644584615595209	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	BORNYL-ACETATE	Fruit	80.0	800.0	1.4141989490302305	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
28	ALPHA-PINENE	Fruit	21.0	4000.0	0.32553830914285703	--
0	LINALOL	Leaf	0.5	16.0	-0.43312232047482413	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
9	CAMPHENE	Leaf	0.2	14.0	-0.18740106279745042	--
23	ALPHA-TERPINEOL	Leaf		5.0	-0.581471880678652	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
0	SPATHULENOL	Flower				--
0	1,8-CINEOL	Leaf				Jim Duke's personal files.
7	ARTEMETIN	Plant				--
0	T-CADINOL	Fruit				Jim Duke's personal files.
2	MANOOL	Leaf				--
0	(E)-CARYOPHYLLENE	Fruit				--
0	ORTHOCYMOL	Leaf Essent. Oil				Jim Duke's personal files.
0	EPITESTOSTERONE	Leaf				--
0	2-BETA-3-ALPHA-DIACETOXYOLEAN-5,12-DIEN-28-OIC-ACID	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
28	ALPHA-PINENE	Leaf Essent. Oil		43200.0	-0.5155006741091597	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DITERPENES	Fruit				--
0	VITICIN	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	5-HYDROXY-2-METHOXYBENZOIC-ACID	Plant				--
0	QUINONE	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	CARYOPHYLLENE-OXIDE	Leaf		1.6	-0.44958649282201407	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
0	ALPHA-TERPINEOL ACETATE	Fruit				Jim Duke's personal files.
0	ALPHA-GURJUNENE	Leaf Essent. Oil		3900.0	-1.0	Jim Duke's personal files.
0	VITEAGNUSIN-H	Fruit				--
0	LEDOL	Leaf		0.5	-0.9430203471044566	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
28	ALPHA-PINENE	Leaf		21.0	-0.22318110789954515	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
0	SPATHULENOL	Leaf Essent. Oil		11600.0	1.3598761207800507	Jim Duke's personal files.
0	CINEOL	Fruit Essent. Oil				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETAGETIN-3,6,7-TRIMETHYLETHER	Fruit				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
7	ARTEMETIN	Root Bark				--
78	LUTEOLIN	Root Bark				--
0	(E)-CARYOPHYLLENE	Leaf				--
4	ISOORIENTIN	Shoot		70.0		Jim Duke's personal files.
0	EO	Leaf		230.0	-0.9943883538121621	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
0	2-ALPHA-3-BETA-DIACETOXY-18-HYDROXYOLEAN-5,12-DIEN-28-OIC-ACID	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
28	ALPHA-PINENE	Fruit Essent. Oil		6.6	-0.8488896734743719	Jim Duke's personal files.
0	T-CADINOL	Flower				Jim Duke's personal files.
8	QUERCETAGETIN	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	BICYCLOGERMACRENE	Flower				--
12	BORNYL-ACETATE	Leaf		0.2	-0.41004476181606825	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
0	ALPHA-TERPINEOL ACETATE	Flower				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	TRANS-BETA-FARNESENE	Fruit				Jim Duke's personal files.
0	VITEAGNUSIN-G	Fruit				--
3	3,4-DIHYDROXYBENZOIC-ACID	Plant				--
0	ALPHA-GURJUNENE	Leaf		0.2	-0.6230842706034109	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of <i>Vitex agnus-castus</i> L. J. Essential Oil Research, 2: 115-119.
9	CHRYSOSPENOL-D	Fruit				--
0	PSEUDOINDICAN	Plant				--
0	APIGENIN-3,8-DI-C-GLYCOSIDE	Fruit				--
0	AUCUBOSIDE	Leaf				Jim Duke's personal files.
0	ISOVITEXIN-XYLOSIDE	Leaf				--
0	LUTEOLIN-7-O-(6"-P-BENZOYLGLUCOSIDE)	Root Bark				--
0	ABIETATRIENE	Fruit Essent. Oil		4400.0		Zwavina, J. H., Bos, R. 1996. Composition of the Essential Fruit Oil of <i>Vitex agnus-castus</i> . <i>Planta Medic</i> , 62(1): 83-84.
0	HOMOORIENTIN	Leaf				--
0	2-ALPHA-3-ALPHA-DIHYDROXYOLEAN-5,12-DIEN-28-OIC-ACID	Leaf				Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	ORIENTIN	Leaf				Jim Duke's personal files.
0	T-CADINOL	Leaf Essent. Oil		10700.0	1.0	Jim Duke's personal files.
0	BICYCLOGERMACRENE	Fruit				--
0	PROGESTERONE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Leaf		2.5	-0.42544218299211284	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of <i>Vitex agnus-castus</i> L. J. Essential Oil Research, 2: 115-119.
0	ALPHA-TERPINEOL ACETATE	Leaf				Jim Duke's personal files.
2	TRANS-BETA-FARNESENE	Flower				Jim Duke's personal files.
0	VITEAGNUSIN-F	Fruit				--
0	6'-O-(6,7-DIHYDROFOLIAMENTHOYL)MUSSAENOSIDIC-ACID	Shoot				--
0	ALLO-AROMADENDRENE	Leaf		0.5	-0.20231788970530706	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of <i>Vitex agnus-castus</i> L. J. Essential Oil Research, 2: 115-119.
5	SABINENE	Flower				--
6	CASTICIN	Seed		1000.0		Jim Duke's personal files.
4	PENDULETIN	Plant				--
1	AGNUSIDE	Shoot				--
0	AUCUBOSIDE	Fruit				Jim Duke's personal files.
4	ISOVITEXIN	Leaf				--
0	LUTEOLIN-6-C-(4"-METHYL-6"-O-TRANS-CAFFEOYLGLUCOSIDE)	Root Bark				--
53	LINALOOL	Leaf		0.5	-0.6470976105323109	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of <i>Vitex agnus-castus</i> L. J. Essential Oil Research, 2: 115-119.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Leaf		6.0	-0.44147221537054576	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of <i>Vitex agnucastus</i> L. J. Essential Oil Research, 2: 115-119.
0	DELTA-3-KETOSTEROIDS	Leaf				--
22	MYRCENE	Fruit				Jim Duke's personal files.
0	BICYCLOGERMACRENE	Leaf				--
12	PINENE	Fruit				--
3	BETA-PHELLANDRENE	Leaf		1.4	-0.4609858749166889	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of <i>Vitex agnucastus</i> L. J. Essential Oil Research, 2: 115-119.
23	ALPHA-TERPINEOL	Fruit				Jim Duke's personal files.
2	TRANS-BETA-FARNESENE	Leaf				Jim Duke's personal files.
0	VITEAGNUSIN-E	Fruit				--
5	SABINENE	Leaf Essent. Oil		191600.0	2.583535625809881	Jim Duke's personal files.
6	CASTICIN	Leaf				Jim Duke's personal files.
4	ORIENTIN	Fruit				--
0	AGNUCASTOSIDE-C	Shoot				--
20	AUCUBIN	Fruit				--
4	ISOORIENTIN	Leaf				--
0	LUTEOLIN-6-C-(2"-O-TRANS-CAFFEOYLGLUCOSIDE)	Root Bark				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CUMINIC-ALDEHYDE	Leaf		0.2		Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of <i>Vitex agnus-castus</i> L. J. Essential Oil Research, 2: 115-119.
22	MYRCENE	Flower				Jim Duke's personal files.
0	6'-O-FOLIAMENTHOYLMUSSAE NOSIDIC-ACID	Shoot				--
16	P-CYMENE	Leaf		10.0	-0.3918055201670966	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of <i>Vitex agnus-castus</i> L. J. Essential Oil Research, 2: 115-119.
0	BETA-CARYOPHYLLENE	Leaf		2.0	-0.33385020306025753	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of <i>Vitex agnus-castus</i> L. J. Essential Oil Research, 2: 115-119.
23	ALPHA-TERPINEOL	Flower				Jim Duke's personal files.
0	ORTHO CYMOL	Flower Essent. Oil				Jim Duke's personal files.
0	VITEAGNUSIN-D	Fruit				--
0	3,3'-DIHYDROXY-5,6,7,4'-TETRAMETHOXY-FLAVON	Plant				--
0	6-HYDROXYKAEMPFEROL-3,4',6,7-TRIMETHYLEETHER	Fruit				--
0	RUBBER	Root		110.0	-0.9115981768054694	Jim Duke's personal files.
0	BETA-CARYOPHYLLENE	Fruit				Jim Duke's personal files.
0	MYZODENDRONE	Shoot				--
0	AGNUCASTOSIDE-B	Shoot				--
20	AUCUBIN	Wood				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HOMOOREINTIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	(E)-BETA-FARNESENE	Flower				--
0	LUTEOLIN-6-C-(6"-O-TRANS-CAFFEOYLGLUCOSIDE)	Root Bark				--
60	LIMONENE	Flower				Jim Duke's personal files.
0	TETRAHYDROXYMONOME THOXYFLAVONE-BETA-D-GLUCOSIDE	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	CITRONELLOL	Leaf		0.5	-0.47395127504006074	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
0	ALPHA-THUJENE	Fruit				Jim Duke's personal files.
22	MYRCENE	Leaf Essent. Oil		18000.0	-0.2967145602434585	Jim Duke's personal files.
0	5,4'-DIHYDROXY-3,6,7,3'-TETRAMETHOXYFLAVONE	Root Bark				--
0	P-CYMEN-8-OL	Leaf		0.5	-0.8329880956974537	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
0	BETA-BOURBONENE	Leaf		0.2	-0.5650084487272009	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
11	GAMMA-TERPINENE	Fruit				Jim Duke's personal files.
16	P-CYMENE	Fruit				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	VITEAGNUSIN-C	Fruit				--
0	P-CYMOL	Fruit				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	6-HYDROXYKAEMPFEROL-3,4',6,7-TETRAMETHYLETHER	Fruit				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	17-ALPHA-HYDROXYPROGESTERONE	Leaf				--
0	BETA-CARYOPHYLLENE	Flower				Jim Duke's personal files.
0	MUSSAENOSIDIC-ACID	Shoot				--
0	AGNUCASTOSIDE-A	Shoot				--
0	ALLO-AROMADENDRENE	Fruit				Jim Duke's personal files.
2	GERMACRENE-D	Leaf		0.2	-0.5248914004803286	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
4	PENDULETIN	Fruit				--
0	(E)-BETA-FARNESENE	Fruit				--
27	LINOLEIC-ACID	Fruit				--
60	LIMONENE	Leaf Essent. Oil		112100.0	-0.18270097388120965	Jim Duke's personal files.
11	TESTOSTERONE	Leaf				--
0	CINEOLE	Fruit				--
0	ALPHA-THUJENE	Flower				Jim Duke's personal files.
0	LEDOL	Fruit				Jim Duke's personal files.
0	ORTHOCYNOL	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	GAMMA-TERPINENE	Flower				Jim Duke's personal files.
16	P-CYMENE	Flower				Jim Duke's personal files.
0	VITEAGNUSIN-B	Fruit				--
6	CASTICIN	Plant				--
0	BETA-CARYOPHYLLENE	Leaf Essent. Oil		63800.0	-0.025964429521824612	Jim Duke's personal files.
0	METHYL-4-HYDROXYBENZOATE	Plant				--
0	AGNOSIDE	Fruit				--
0	ALLO-AROMADENDRENE	Flower				Jim Duke's personal files.
0	GAMMA-ELEMENE	Leaf		0.2	-0.9090417205790984	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
75	KAEMPFEROL	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	17-HYDROXYPROGESTERONE	Leaf				--
13	BETA-PINENE	Fruit Essent. Oil		8300.0	-0.6795252003227298	Jim Duke's personal files.
11	ISORHAMNETIN	Root Bark				--
60	LIMONENE	Fruit Essent. Oil		1036500.0	1.4108415138660721	Jim Duke's personal files.
0	ALPHA-TERPINYL-ACETATE	Flower				--
23	TERPINEN-4-OL	Leaf		11.0	-0.3340416261032434	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
3	CHRYSOSPENOL	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-THUJENE	Leaf Essent. Oil		7900.0	-0.9602760805888906	Jim Duke's personal files.
0	LEDOL	Flower				Jim Duke's personal files.
18	VITEXIN	Fruit				--
4	ORIENTIN	Shoot		70.0		--
15	ASCARIDOLE	Leaf		0.5	-1.376775510458338	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
11	GAMMA-TERPINENE	Leaf				Jim Duke's personal files.
16	P-CYMENE	Leaf Essent. Oil		14400.0	-0.564710773279301	Jim Duke's personal files.
0	VITEAGNUSIN-A	Fruit				--
6	CASTICIN	Shoot				--
8	CARYOPHYLENE-OXIDE	Fruit				Jim Duke's personal files.
1	METHYL-3,4-DIHYDROXYBENZOATE	Plant				--
0	7-O-TRANS-P-COUMAROYL-6'-O-TRANS-CAFFEOYL-8-EPILOGANIC-ACID	Shoot				--
1	ANDROSTENEDIONE	Leaf				--
0	GAMMA-CADINENE	Leaf		0.2	-0.4860568552720314	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
67	1,8-CINEOLE	Leaf		115.0	-0.5154325408020304	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Flower				Jim Duke's personal files.
0	FLAVONOIDS	Root Bark				--
0	ALPHA-TERPINYL-ACETATE	Fruit				--
0	T-CADINOL	Leaf		2.5	-0.7272372511202277	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
0	CASTINE	Fruit				--
0	EPITESTOSTERONE	Flower				Jim Duke's personal files.
0	LEDOL	Leaf Essent. Oil		5800.0	1.0	Jim Duke's personal files.
0	VITEXILACTONE	Fruit				--
22	MYRCENE	Leaf		3.0	-0.17159298783816848	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
0	ALPHA-THUJENE	Leaf		1.4	-0.604199084005542	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
23	TERPINEN-4-OL	Leaf Essent. Oil		38200.0	-0.22503871744518758	Jim Duke's personal files.
0	1,8-CINEOL	Fruit				Jim Duke's personal files.
24	VANILLIC-ACID	Plant				--
8	CARYOPHYLENE-OXIDE	Flower				Jim Duke's personal files.
2	MANOOL	Flower				--
67	1,8-CINEOLE	Flower				--
1	AGNUSIDE	Fruit				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CHRYSOPHANOL-D	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	(E)-BETA-FARNESENE	Leaf		2.5	-0.455053136920818	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
13	BETA-PINENE	Leaf Essent. Oil		9800.0	-0.5515280698255924	Jim Duke's personal files.
8	EUPATORIN	Fruit				--
41	CAMPHOR	Flower				Jim Duke's personal files.
0	P-HYDROXYBENZOIC-ACID	Plant				--
0	SPATHULENOL	Leaf		0.9	-0.7629459117652999	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
0	CASTICINE	Seed				--
11	TESTOSTERONE	Flower				Jim Duke's personal files.
0	6-HYDROXYKAEMPFEROL-3,6,7-TRIMETHYLETHER	Fruit				--
0	VITETRIFOLIN-C	Fruit				--
7	LUTEOLIN-7-GLUCOSIDE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ALPHA-TERPINYL-ACETATE	Leaf		1.8	-0.6353129419169833	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SPATHULENOL	Fruit				--
0	1,8-CINEOL	Flower				Jim Duke's personal files.
0	SCLARENE	Leaf				--
20	AUCUBIN	Shoot				--
8	CARYOPHYLLENE-OXIDE	Leaf Essent. Oil		11700.0	0.6121610007755034	Jim Duke's personal files.
2	MANOOL	Fruit				--
0	(E)-CARYOPHYLLENE	Flower				--
1	AGNUSIDE	Wood				Jim Duke's personal files.
0	EUROSTOSIDE	Leaf		700.0		--
0	3-BETA-ACETOXYOLEAN-12-EN-27-OIC-ACID	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
28	ALPHA-PINENE	Flower				--
41	CAMPHOR	Leaf				Jim Duke's personal files.
0	6'-O-P-HYDROXYBENZOYLMUSSAENOSIDIC-ACID	Shoot				--
5	SABINENE	Leaf		25.0	-0.2452803744551132	Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119.
6	CASTICIN	Fruit		1000.0		--
0	DELTA-TERPINEOL	Leaf				Jim Duke's personal files.
0	ALPHA-GURJUNENE	Flower				Jim Duke's personal files.
0	VITETRIFOLIN-B	Fruit				--