

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Ligustrum lucidum*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-TAXIFOLIN	Fruit	--	--		
0	(DL)-ERIODICTYOL	Fruit	--	--		
0	(Z)-1-(1-ETHOXY-ETHOXY)-3-HEXENE	Fruit Essent. Oil	--	18900		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	1,2-DIPHENYL-1,2-ETHANEDIOL	Fruit Essent. Oil	--	39200		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	1-METHYL-1-PROPYL-HYDRAZINE	Fruit Essent. Oil	--	26000		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	1-PHENYL-1,2-BUTANEDIOL	Fruit Essent. Oil	--	41200		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	10-HYDROXY-LIGUSTROSIDE	Fruit	--	--		
0	10-HYDROXYOLEUROPEIN	Fruit	--	--		
0	2-ALPHA-HYDROXY-3-BETA-(4-HYDROXY-TRANS-CINNAMOYL-OXY)-OLEANOLIC-ACID	Plant	--	--		
0	3-4-DIHYDROXY-PHENETHYL-ALCOHOL	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	4-ACETYLOXY-2-BUTANONE	Fruit Essent. Oil	--	54600		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	4-HYDROXY-BETA-PHENYLETHYL-BETA-D-GLUCOSIDE	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ACETYL-OLEANOLIC-ACID	Fruit	--	--		
0	ACETYLRURSOLIC-ACID	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-ALPHA-4-TRIMETHYL-3-CYCLOHEXEN-METHANOL	Fruit Essent. Oil	--	32400		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ALPHA-BUTYLBENZENE-METHANOL	Fruit Essent. Oil	--	56000		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ALPHA-MANNITOL	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	APIGETRIN	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ARSENIC	Fruit	0.6	0.6	0.23199328320775964	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
47	BETA-SITOSTEROL	Fruit	--	--		
28	CALCIUM	Fruit	3040	3040	-0.18836655613377604	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	CHRYSANTHEMIN	Fruit	--	--		
12	COPPER	Fruit	12	12	-0.06373869485264942	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	COSMOSIIN	Leaf	--	--		
0	CYANIDIN-3-O-BETA-D-RUTINOSIDE	Fruit	--	--		
5	CYANIN	Fruit	--	--		
3	CYNAROSIDE	Leaf	--	--		
6	ETHYL-ACETATE	Fruit Essent. Oil	--	189500		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	FAT	Fruit	100000	150000	0.5044358446794145	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
8	FRUCTOSE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	GLUCOSE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	HYDRAZINE-METHYL-OXALATE	Fruit Essent. Oil	--	35200		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
6	IRON	Fruit	120	120	-0.051480525146559	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	ISORHOIFOLIN	Leaf	--	--		
0	LIGUSTALOSIDES	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LIGUSTRIN	Seed	--	--		
0	LIGUSTROSIDE	Fruit	--	--		
0	LIGUSTROSIDIC-ACID	Fruit	--	--		
0	LIGUSTROSIDIC-ACID	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
27	LINOLEIC-ACID	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	LINOLENIC-ACID	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	LUTEOLIN-4'-O-BETA-D-GLUCOSIDE	Leaf	--	--		
0	LUTEOLIN-7-O-BETA-D-RUTINOSIDE	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
65	MAGNESIUM	Fruit	1020	1020	-0.5138726333589669	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	MALVIDIN-3-O-BETA-D-RUTINOSYL-5-O-BETA-D-GLUCOSIDE	Fruit	--	--		
14	MANGANESE	Fruit	26	26	-0.23209688164812706	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	NEO-NUEZHINIDE	Fruit	--	--		
0	NEUZHENGALASIDE	Fruit	--	4		
0	NUEZHENIDE	Fruit	--	--		
0	NUZHEINIDE	Fruit	--	--		
0	NUZHENIDE	Fruit	--	--		
0	NUZHENIDIC-ACID	Plant	--	--		
64	OLEANOLIC-ACID	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
64	OLEANOLIC-ACID	Seed	--	--		
64	OLEANOLIC-ACID	Plant	--	--		
64	OLEANOLIC-ACID	Fruit	0.7	80400	1	
18	OLEIC-ACID	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
9	OLEUROPEIN	Fruit	--	--		
9	OLEUROPEIN	Plant	--	--		
0	OLEUROPEINIC-ACID	Fruit	--	--		
0	P-HYDROXY-PHENETHYL-ALCOHOL	Fruit	--	--		
0	P-HYDROXY-PHENYLETHANOL	Leaf	--	--		
0	P-HYDROXYPHENETHYL-BETA-D-GLUCOSIDE	Fruit	--	--		
13	PALMITIC-ACID	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	POLYSACCHARIDE	Pericarp	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	POLYSACCHARIDE	Seed	--	--		
14	POTASSIUM	Fruit	16800	16800	-0.09878143440473125	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
176	QUERCETIN	Fruit	--	--		
87	RUTIN	Leaf	--	--		
1	SODIUM	Fruit	54	54	-0.17883002710316093	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	SPECNUEZHENIDE	Fruit	--	10		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	THIOKETONE	Fruit Essent. Oil	--	85600		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	TYROSOL	Pericarp	--	--		
1	TYROSOL	Seed	--	--		
89	URSOLIC-ACID	Plant	--	--		
89	URSOLIC-ACID	Fruit	--	0.3	-1.0690174765081477	
77	ZINC	Fruit	24	24	-0.1895875891620866	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.