

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Ferula assa-foetida*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
78	LUTEOLIN	Fruit				--
61	FERULIC-ACID	Resin, Exudate, Sap		13000.0		--
61	FERULIC-ACID	Essential Oil				--
61	FERULIC-ACID	Gum				--
28	VANILLIN	Plant		600.0		--
28	ALPHA-PINENE	Gum		143000.0		--
28	ALPHA-PINENE	Seed Essent. Oil		14300.0	-0.6432551188420427	--
28	ALPHA-PINENE	Essential Oil				--
27	LINOLEIC-ACID	Seed		128000.0	0.17888309199536606	--
26	DIALLYL-DISULFIDE	Essential Oil				--
25	DIALLYL-SULFIDE	Gum				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.
25	DIALLYL-SULFIDE	Essential Oil				--
23	ALPHA-TERPINEOL	Seed Essent. Oil		127100.0	0.07775930700042463	--
22	UMBELLIFERONE	Essential Oil				--
22	UMBELLIFERONE	Gum				--
18	OLEIC-ACID	Seed		53000.0	-0.5434090926367003	--
15	ISOPIMPINELLIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	BETA-PINENE	Essential Oil				--
11	ALPHA-PHELLANDRENE	Essential Oil				--
10	AZULENE	Root				--
9	VALERIC-ACID	Essential Oil				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	GLUCOSE	Gum				--
6	MYRISTIC-ACID	Seed Essent. Oil		212300.0	1.0	--
4	CADINENE	Essential Oil				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.
4	PELLANDRENE	Gum		64000.0		--
4	PELLANDRENE	Seed Essent. Oil		54800.0		--
4	GLUCURONIC-ACID	Gum				--
3	CYNAROSIDE	Fruit				--
1	GALACTOSE	Gum				--
1	GALBANIC-ACID	Gum		20600.0		--
1	FOETIDIN	Gum				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	FOETIDIN	Root		500.0		--
0	1-METHYLPROPYL-3-(METHYLTHIO)-2-PROPENYL-DISULFIDE	Gum				--
0	POLYANTHIN	Gum				--
0	5-ALPHA-(P-HYDROXYBENZOYL)-JAESCHKEANADIOL	Rhizome		1500.0		--
0	DIALLYL-SULFATE	Essential Oil				--
0	2-BUTYLMETHYL-DISULFIDE	Gum				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.
0	JAESCHKEANADIOL	Rhizome		6100.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FEROCOLICIN	Gum				--
0	DI-2-BUTYL-METHYL-TRISULFIDE	Essential Oil				--
0	ASARESINOTANNOL-A	Gum				--
0	1-METHYLPROPYL-1-PROPENYL-DISULFIDE	Gum				--
0	BYAKANGELICOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	5-ALPHA-(4-HYDROXYBENZOYL)-9-BETA-ANGELOXY-JAESCHKEANODIOL	Rhizome		260.0		--
0	GUMMOSIN	Root		769.0		--
0	ASARESINOTANNOID-B	Gum				--
0	GUM	Plant		250000.0	1.4490023061725688	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	UMBELLIFERONE-ETHERS	Gum				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	BUTYLPROPENYL-DISULFIDE	Essential Oil	400000.0	450000.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	5-ALPHA-(3-METHOXY-4-HYDROXYBENZOYL)-JAESCHKEANADIOL	Rhizome		1200.0		--
0	GUMMOSIN	Gum		1500.0		--
0	DI-2-BUTYLDISULFIDE	Essential Oil				--
0	ASARESINOTANNOID-A	Gum				--
0	ISOBUTYLPROPANYLDISULFIDE	Essential Oil				Lawrence Review of Natural Products, Jan-93.
0	PETROSELINIC-ACID	Seed		765000.0	0.9605421579988822	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5-ALPHA-(3,4-DIACETOXYBENZOYL)-9-BETA-ANGELOXY-JAESCHKEANADIOL	Rhizome		190.0		--
0	GERANIOL-ACETATE	Seed Essent. Oil		77100.0	1.385249454425996	--
0	ASADISULFIDE	Resin, Exudate, Sap		47.0		--
0	2-BUTYL-TRANS-1-PROPENYL-DISULFIDE	Essential Oil	110000.0	450000.0		--
0	FARNESIFEROL-C	Gum		16666.0		--
0	FERULIC-ACID-ESTERS	Resin, Exudate, Sap		600000.0		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	BASSORIN	Gum				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-BUTYLMETHYL-TRISULFIDE	Essential Oil				--
0	SEC-BUTYL-PROPENYL-DISULFIDE	Resin, Exudate, Sap	4500.0	7650.0		Chemical Constituents of Oriental Herbs (3 diff. books)
0	GERANIOL-ACETATE	Essential Oil				--
0	CONFEROL	Root		10.0		--
0	ASACOUMARIN-B	Resin, Exudate, Sap		62.0		--
0	1-(METHYLTHIO)-PROPYL-CIS-1-PROPENYL-DISULFIDE	Essential Oil	190000.0	380000.0		--
0	FARNESIFEROL-C	Root		19.0		--
0	FARNESIFEROL-C	Gum				--
0	ASH	Plant	15000.0	100000.0	-0.3796129196407384	--
0	2-BUTYL-3-METHYL-THIO-ALLYLDISULFIDE	Gum				--
0	RHAMNOSE	Gum				--
0	COLADONIN	Gum		1250.0		--
0	ASACOUMARIN-A	Resin, Exudate, Sap		30.0		--
0	UNDECYL-SULFONYL-ACETIC-ACID	Resin Essent. Oil		188000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	9-HYDROXYUMBELLIPRENIN	Gum		388.0		--
0	FARNESIFEROL-B	Gum				--
0	FARNESIFEROL-B	Gum				--
0	ASARESINOTANNOL	Gum				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	MOGOLTADONE	Gum				--
0	1-(1-METHYL-THIO-PROPYL)-1-PROPENYLDISULFIDE	Gum				--
0	RESIN	Plant	400000.0	640000.0	3.071537849584625	Tucker, A. O. and Debaggio, T. 2000. The Big Book of Herbs. Interweave Press, Inc. Loveland, CO. 688 pp.
0	FOLIFERIDIN	Gum		500.0		--
0	BORNEOL-ACETATE	Seed Essent. Oil		93300.0	1.0	--
0	ARABINOSE	Gum				--
0	UMBELLIPRENIN	Root		23.0		--
0	9-BETA-HYDROXY-JAESCHKEANADIOL	Rhizome		470.0		--
0	FARNESIFEROL-B	Root		200.0		--
0	FARNESIFEROL-A	Gum				--
0	SEC-BUTYL-PROPYL-DISULFIDE	Essential Oil				--
0	BADRAKEMIN-ACETATE	Gum		1500.0		--
0	PROPENYL-SULFIDE	Gum				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.
0	2-BUTYLPROPENYLDISULFIDE	Gum				--

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0	FARNESFEROL	Gum				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.
0	8-HYDROXYUMBELLIPRENIN	Gum		1550.0		--
0	FARNESIFEROL-A	Gum		6000.0		--
0	ASADISULFIDE	Gum				--
0	ALLYLPROPYL-SULFIDE	Gum				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.
0	SEC-BUTYL-PROPENYL-DISULFIDE	Essential Oil				--
0	EPISAMARCANDIN	Root		9.0		--
0	BADRAKEMIN	Gum		1750.0		--
0	OXYDASE	Plant				--
0	2-BUTYLMETHYL-DISULFIDE	Essential Oil				--
0	EO	Gum	30000.0	170000.0	-0.5346418368427087	--
0	SAMARCANDIN-ACETATE	Gum		4000.0		--
0	8-ACETOXY-5-HYDROXYUMBELLIPRENIN	Gum		175.0		--
0	DIMETHYL-TRISULFIDE	Essential Oil				--
0	ASACOUMARIN-B	Gum				--
0	2-BUTYLMETHYL-TRISULFIDE	Gum				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.
0	KARATAVICINOL	Gum		3000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DI-2-BUTYLTRISULFIDE	Essential Oil				--
0	ASSAFOETIDIN	Gum				--
0	L-ARABINOSE	Gum				--
0	1-(METHYLTHIO)-PROPYL-1-PROPENYL-DISULFIDE	Gum				--
0	POLYANTHININ	Gum		1500.0		--
0	5-HYDROXYUMBELLIPRENIN	Gum		363.0		--
0	ASACOMARIN-A	Gum				--
0	2-BUTYLMETHYL-TETRASULFIDE	Gum				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.
0	KAMOLONOL	Gum		1750.0		--
0	FERUGININ	Rhizome		90.0		--
0	DI-2-BUTYLTETRASULFIDE	Essential Oil				--
0	ASARESINOTANNOL-B	Gum				--
0	KAMOLONOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.