

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
0	1-(1-METHYL-THIO-PROPYL)-1-PROPENYLDISULFIDE	Gum				--
0	1-(METHYLTHIO)-PROPYL-1-PROPENYL-DISULFIDE	Gum				--
0	1-(METHYLTHIO)-PROPYL-CIS-1-PROPENYL-DISULFIDE	Essential Oil	190000.0	380000.0		--
0	1-METHYLPROPYL-1-PROPENYL-DISULFIDE	Gum				--
0	1-METHYLPROPYL-3-(METHYLTHIO)-2-PROPENYL-DISULFIDE	Gum				--
0	2-BUTYL-3-METHYL-THIO-ALLYLDISULFIDE	Gum				--
0	2-BUTYL-TRANS-1-PROPENYL-DISULFIDE	Essential Oil	110000.0	450000.0		--
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	2-BUTYLMETHYL-DISULFIDE	Essential Oil				--
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	2-BUTYLMETHYL-TRISULFIDE	Essential Oil				--
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	2-BUTYLPROPENYLDISULFIDE	Gum				--

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	5-ALPHA-(3-METHOXY-4-HYDROXYBENZOYL)-JAESCHKEANADIOL	Rhizome		1200.0		--
0	5-ALPHA-(4-HYDROXYBENZOYL)-9-BETA-ANGELOXY-JAESCHKEANADIOL	Rhizome		260.0		--
0	5-ALPHA-(P-HYDROXYBENZOYL)-JAESCHKEANADIOL	Rhizome		1500.0		--
0	5-HYDROXYUMBELLIPRENIN	Gum		363.0		--
0	8-ACETOXY-5-HYDROXYUMBELLIPRENIN	Gum		175.0		--
0	8-HYDROXYUMBELLIPRENIN	Gum		1550.0		--
0	9-BETA-HYDROXY-JAESCHKEANADIOL	Rhizome		470.0		--
0	9-HYDROXYUMBELLIPRENIN	Gum		388.0		--
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.
11	ALPHA-PHELLANDRENE	Essential Oil				--
28	ALPHA-PINENE	Gum		143000.0		--
28	ALPHA-PINENE	Seed Essent. Oil		14300.0	-0.6432551188420427	--
28	ALPHA-PINENE	Essential Oil				--
23	ALPHA-TERPINEOL	Seed Essent. Oil		127100.0	0.07775930700042463	--
0	ARABINOSE	Gum				--
0	ASACOUMARIN-A	Resin, Exudate, Sap		30.0		--
0	ASACOUMARIN-A	Gum				--
0	ASACOUMARIN-B	Resin, Exudate, Sap		62.0		--
0	ASACOUMARIN-B	Gum				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ASADISULFIDE	Resin, Exudate, Sap		47.0		--
0	ASADISULFIDE	Gum				--
0	ASARESINOTANNOID-A	Gum				--
0	ASARESINOTANNOID-B	Gum				--
0	ASARESINOTANNOL	Gum				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ASARESINOTANNOL-A	Gum				--
0	ASARESINOTANNOL-B	Gum				--
0	ASH	Plant	15000.0	100000.0	-0.3796129196407384	--
0	ASSAFOETIDIN	Gum				--
10	AZULENE	Root				--
0	BADRAKEMIN	Gum		1750.0		--
0	BADRAKEMIN-ACETATE	Gum		1500.0		--
0	BASSORIN	Gum				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				--
0	BORNEOL-ACETATE	Seed Essent. Oil		93300.0	1.0	--
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	BYAKANGELICOL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	COLADONIN	Gum		1250.0		--
0	CONFEROL	Root		10.0		--
3	CYNAROSIDE	Fruit				--
0	DI-2-BUTYL-METHYL-TRISULFIDE	Essential Oil				--
0	DI-2-BUTYLDISULFIDE	Essential Oil				--
0	DI-2-BUTYLTETRASULFIDE	Essential Oil				--
0	DI-2-BUTYLTRISULFIDE	Essential Oil				--
26	DIALLYL-DISULFIDE	Essential Oil				--
0	DIALLYL-SULFATE	Essential Oil				--
25	DIALLYL-SULFIDE	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.
0	DIMETHYL-TRISULFIDE	Essential Oil				--
0	EO	Gum	30000.0	170000.0	-0.5346418368427087	--
0	EPISAMARCANDIN	Root		9.0		--
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	FARNESFEROL-A	Gum				--
0	FARNESFEROL-B	Gum				--
0	FARNESFEROL-C	Gum				--
0	FARNESIFEROL-A	Gum		6000.0		--
0	FARNESIFEROL-B	Gum				--
0	FARNESIFEROL-B	Root		200.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FARNESIFEROL-C	Gum		16666.0		--
0	FARNESIFEROL-C	Root		19.0		--
0	FEROCOLICIN	Gum				--
0	FERUGININ	Rhizome		90.0		--
61	FERULIC-ACID	Resin, Exudate, Sap		13000.0		--
61	FERULIC-ACID	Essential Oil				--
61	FERULIC-ACID	Gum				--
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.
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	FOLIFERIDIN	Gum		500.0		--
1	GALACTOSE	Gum				--
1	GALBANIC-ACID	Gum		20600.0		--
0	GERANIOL-ACETATE	Seed Essent. Oil		77100.0	1.385249454425996	--
0	GERANIOL-ACETATE	Essential Oil				--
7	GLUCOSE	Gum				--
4	GLUCURONIC-ACID	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	GUMMOSIN	Gum		1500.0		--
0	GUMMOSIN	Root		769.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ISOBUTYLPROPANYLDISULFIDE	Essential Oil				Lawrence Review of Natural Products, Jan-93.
15	ISOPIMPINELLIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	JAESCHKEANADIOL	Rhizome		6100.0		--
0	KAMOLONOL	Gum		1750.0		--
0	KAMOLONOL	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	KARATAVICINOL	Gum		3000.0		--
0	L-ARABINOSE	Gum				--
27	LINOLEIC-ACID	Seed		128000.0	0.17888309199536606	--
78	LUTEOLIN	Fruit				--
0	MOGOLTADONE	Gum				--
6	MYRISTIC-ACID	Seed Essent. Oil		212300.0	1.0	--
18	OLEIC-ACID	Seed		53000.0	-0.5434090926367003	--
0	OXYDASE	Plant				--
0	PETROSELINIC-ACID	Seed		765000.0	0.9605421579988822	--
4	PELLANDRENE	Seed Essent. Oil		54800.0		--
4	PELLANDRENE	Gum		64000.0		--
0	POLYANTHIN	Gum				--
0	POLYANTHININ	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	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	RHAMNOSE	Gum				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SAMARCANDIN-ACETATE	Gum		4000.0		--
0	SEC-BUTYL-PROPENYL-DISULFIDE	Resin, Exudate, Sap	4500.0	7650.0		Chemical Constituents of Oriental Herbs (3 diff. books)
0	SEC-BUTYL-PROPENYL-DISULFIDE	Essential Oil				--
0	SEC-BUTYL-PROPYL-DISULFIDE	Essential Oil				--
22	UMBELLIFERONE	Essential Oil				--
22	UMBELLIFERONE	Gum				--
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	UMBELLIPRENIN	Root		23.0		--
0	UNDECYL-SULFONYL-ACETIC-ACID	Resin Essent. Oil		188000.0		--
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.
28	VANILLIN	Plant		600.0		--