

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Lawsonia inermis

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
78	LUTEOLIN	Leaf		29.0	-0.5868818953220738	--
78	LUTEOLIN	Plant				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.
62	GALLIC-ACID	Leaf		69000.0	1.5912684328301319	--
47	BETA-SITOSTEROL	Bark				--
47	BETA-SITOSTEROL	Leaf				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
44	SCOPOLETIN	Leaf				--
32	AESCULETIN	Leaf				--
30	ESCULETIN	Leaf				--
27	LINOLEIC-ACID	Oil		293000.0		--
27	LINOLEIC-ACID	Seed	16415.0	35820.0	-0.6109242994855738	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
26	LAWSONE	Petiole	2500.0	25000.0		--
26	LAWSONE	Leaf	4300.0	40000.0		--
26	LAWSONE	Seed		130.0		--
26	LAWSONE	Bark				--
22	BETULINIC-ACID	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
22	BETULINIC-ACID	Bark				--
21	LUPEOL	Bark				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
21	LUPEOL	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
18	OLEIC-ACID	Seed	19410.0	42360.0	-0.6308761398796081	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
18	MANNITOL	Leaf				--
18	OLEIC-ACID	Oil	346600.0	347000.0		--
15	FIBER	Seed	335000.0	372200.0	1.874718165586639	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
14	SUCROSE	Leaf				--
13	PALMITIC-ACID	Seed	5080.0	11085.0	-0.4708815318438094	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
13	BETULIN	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
13	BETULIN	Bark				--
13	PALMITIC-ACID	Oil	90700.0	91000.0		--
13	BETA-IONONE	Flower Essent. Oil		720000.0		--
13	BETA-IONONE	Flower	80.0	160.0	-0.5452962043746039	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
12	STIGMASTEROL	Leaf				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
12	FRAXETIN	Leaf	50000.0	100000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	STEARIC-ACID	Seed	8835.0	19285.0	-0.1469710263684741	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	STEARIC-ACID	Oil	157800.0	158000.0		--
7	LAURIC-ACID	Seed Oil				--
7	GLUCOSE	Leaf				--
6	XANTHONES	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
6	MYRISTIC-ACID	Seed Oil				--
5	ALPHA-IONONE	Flower Essent. Oil		180000.0		--
5	ALPHA-IONONE	Flower	20.0	40.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	DAUCOSTEROL	Leaf	123.0	1000.0		--
4	COSMOSIIN	Leaf				--
4	1,2-DIHYDROXY-4-GLUCOSYLNAPHTHALENE	Leaf				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
3	XYLOSE	Leaf				--
3	1,4-NAPHTHOQUINONE	Leaf				--
3	CYNAROSIDE	Leaf	525.0	1500.0		--
2	LUTEOLIN-7-O-GLUCOSIDE	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
1	BEHENIC-ACID	Seed	945.0	2065.0	-0.48479943048982227	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	BEHENIC-ACID	Oil		17000.0		Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	TRIACONTAN-1-OL	Bark				--
1	ISOPLUMBAGIN	Stem Bark		500.0		--
1	GALACTOSE	Leaf				--
1	LAWSARITOL	Bark				--
1	RESEDINE	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
1	LAWSARITOL	Resin, Exudate, Sap		80.0		--
1	ISOPLUMBAGIN	Bark				--
1	BEHENIC-ACID	Seed Oil		16900.0	0.4016806247889112	--
0	PENTOSANS	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DIHYDROXYLUPENE	Bark				Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.
0	LAXANTHONES	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	(20S)-3BETA-30-DIHYDROXYLUPANE	Bark				--
0	APIGENIN-4'-O-BETA-D-GLUCOSIDE	Leaf				--
0	LAXANTHONE-II	Leaf		160.0		--
0	1,4-DIGLUCOSYLOXY-2-HYDROXYNAPHTHALENE	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	EO	Flower	100.0	200.0	-0.41666386041507664	--
0	ASH	Seed	47500.0	52780.0	0.14737696891241386	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	1-HYDROXY-3,6-DIACETOXY-7-METHOXYXANTHONE	Plant				--
0	LALOSIDE	Leaf		7650.0		--
0	LAXANTHONE-I	Plant				--
0	WATER	Seed		106000.0	-0.4666571660641496	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	COUMARINS	Leaf	12700.0	21400.0	1.0	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	ARACHIDIC-ACID	Seed	5375.0	11730.0	0.49255332125520745	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	LACOUMARIN	Plant		40.0		--
0	ASH	Leaf		148000.0	0.5135573973094308	Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.
0	LAXANTHONE-I	Leaf		100.0		--
0	TANNINS	Leaf	50000.0	100000.0	0.0706491892014639	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CARBOHYDRATES	Seed	671700.0	746330.0	0.8859597692080711	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	N-TRIACONTYL-N-TRIDECANOATE	Bark				--
0	APIGENIN-7-O-BETA-GLUCOSIDE	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
0	TILIANIN	Leaf		200.0		--
0	ARACHIDIC-ACID	Oil		96000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LACOUMARIN	Leaf				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	LAWSONIASIDE	Leaf		1450.0		--
0	N-TRIACONTANOL	Bark				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	APIGENIN-4'-GLUCOSIDE	Leaf				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	HENNOSIDES	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	WATER	Leaf		90000.0	-3.5802814265384173	Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.
0	N-TRIACONTYL-N-TRIDECANOATE	Seed				--
0	FIXED-OIL	Seed		75000.0	-1.240735468629314	--
0	HENNADIOL	Bark		26.0		--
0	1,3-DIHYDROXYNAPHTHALENE	Leaf				--
0	SUGARS	Leaf		110000.0	1.0793781366899218	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ACACETIN-7-O-GLUCOSIDE	Plant				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	N-TRIACONTYL-N-TRIDECANOATE	Leaf				--
0	1,3-DIHYDROXY-6,7-DIMETHOXYXANTHONE	Plant				--
0	STEROLS	Plant				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	RESIN	Leaf	20000.0	30000.0	-1.2544845011531556	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LAWSARITOL-A	Root		54.0		--
0	LUTEOLIN-3'-GLUCOSIDE	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
0	3BETA-30-DIHYDROXYLUP-20(29)-ENE	Bark				Chemical Constituents of Oriental Herbs (3 diff. books)
0	N-TRIACONTYL-N-TRIDECANOATE	Root				--
0	30-NOR-LUPAN-3-BETA-OL-20-ONE	Bark				--
0	BETA-SITOSTEROL-3-O-GLUCOSIDE	Plant				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	3-BETA-HYDROXY-20-OXO-30-NORLUPANE	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	N-TRIACONTANYL-TRIDECANATE	Bark				--
0	LINOLENIC-ACID	Seed Oil		40000.0	-0.8571140548720826	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUINONE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LAWNERMIS-ACID-METHYL-ESTER	Seed		4.0		--
0	LUPANE	Bark				Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.
0	1,4-NAPHTHAQUINONE	Leaf				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	LAXANTHONE-III	Plant				--
0	FAT	Seed	56000.0	122220.0	-0.7541149139973352	--
0	PROTEIN	Seed	50000.0	55555.0	-1.5855466027617497	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	LAWNERMIS-ACID	Seed		6.0		--
0	LUTEOLIN-3'-O-BETA-D-GLUCOSIDE	Leaf		1175.0		--
0	LAXANTHONE-II	Plant				--
0	4-GLUCOSYLOXY-1,2-DIHYDROXYNAPHTHALENE	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.