

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Verbascum thapsus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CARBOHYDRATES	Leaf	353320.0	803000.0	1.5201450259731908	--
18	OLEIC-ACID	Seed	292000.0	300000.0	1.4870759326450875	--
0	PROTEIN	Seed	178000.0	183000.0	-0.4518573267949109	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
27	LINOLEIC-ACID	Seed	48000.0	613000.0	4.33441124200899	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PROTEIN	Leaf	47520.0	108000.0	-1.035954705344622	--
0	ASH	Leaf	37840.0	86000.0	-0.5788064877331136	--
0	FAT	Seed	35000.0	271000.0	0.029562564488382438	--
28	CALCIUM	Leaf	5852.0	13300.0	-0.3510114574130655	--
14	POTASSIUM	Leaf	5808.0	13200.0	-0.7570441086555757	--
0	FAT	Leaf	5720.0	13000.0	-0.8660602512576238	--
4	PHOSPHORUS	Leaf	2508.0	5700.0	0.13404287578502	--
65	MAGNESIUM	Leaf	1421.0	3230.0	-0.34587713524983377	--
112	ASCORBIC-ACID	Leaf	341.0	776.0	-0.3719171852420888	--
1	SODIUM	Leaf	334.0	760.0	-0.5123036729552699	--
6	IRON	Leaf	104.0	236.0	-0.32238008504806986	--
39	NIACIN	Leaf	42.0	95.0	-0.030418329796116125	--
20	AUCUBIN	Shoot	25.0	13900.0		--
53	BETA-CAROTENE	Leaf	19.0	43.0	-0.9506764482123975	--
2	COBALT	Leaf	6.0	12.8	-0.22280563230793393	--
14	MANGANESE	Leaf	5.3	12.0	-0.43993638289409226	--
4	TIN	Leaf	5.3	12.0	-0.4331991239429111	--
4	SILICON	Leaf	3.3	7.4	-0.39118183776763965	--
24	CHROMIUM	Leaf	0.6	1.4	-0.52714700936206	--
15	RIBOFLAVIN	Leaf	0.5	1.1	-0.172705289047245	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Leaf	0.2	0.4	-0.524313284412666	--
60	SELENIUM	Leaf	0.2	0.5	-0.34412954703445015	--
2	FORSYTHOSIDE-B	Plant		4.0		--
20	AUCUBIN	Stem		600.0		--
1	XYLOGLUCAN	Flower				--
0	6-O-(ALPHA-L-(2,3,4-DIMETHOXY-CINNAMOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		5.0		--
12	STIGMASTEROL	Seed				--
47	BETA-SITOSTEROL	Seed Oil				--
0	AJUGOL-ACETATE	Plant				--
0	6-O-(ALPHA-L-(2"-O-P-METHOXY-CINNAMOYL-4"-O-ACETYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		9.0		--
21	LUPEOL	Leaf				--
31	THIAMIN	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ERGOSTEROL-PEROXIDE	Flower				--
20	AUCUBIN	Leaf		100.0	-1.1297063465489834	--
0	VERBASCUM-PHENYLETHANOID-GLYCOSIDE	Plant		1.0		--
0	KILOCALORIES	Leaf		2680.0	-0.5449589251776649	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	6-O-(ALPHA-L-ISOFERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		19.0		--
12	STIGMASTEROL	Stem				--
47	BETA-SITOSTEROL	Flower				--
0	THIAMINE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6-O-(ALPHA-L-(2"-O-P-METHOXY-CINNAMOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		31.0		--
0	LEUCOSCEPTOSIDE-B	Plant		4.0		--
0	THAPSIC-ACID	Flower		2300.0		--
3	CATALPOL	Plant		50.0		--
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-G	Plant		2.4		--
20	AUCUBIN	Plant		150.0	-0.3198520148637861	--
0	VERBASCUM-LIGNAN-GLYCOSIDE-13	Plant		1.0		--
0	6-O-(ALPHA-L-(4-CAFFEOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		9.0		--
12	STIGMASTEROL	Leaf				--
9	BETA-AMYRIN	Root				--
0	FIBER(DIETARY)	Leaf		350000.0	-0.29464124786862994	--
0	6-O-(ALPHA-L-(2"-O-P-COUMAROYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		22.0		--
0	LATERIOSIDE	Plant		5390.0		--
9	BETA-AMYRIN	Seed				--
8	STEARIC-ACID	Seed		164000.0	2.9928530647275444	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-F	Plant		2.0		--
13	PALMITIC-ACID	Seed		309600.0	5.688451515633364	--
0	VERBASCOSAPONIN	Flower				--
31	HESPERIDIN	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.

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0	6-O-(ALPHA-L-(4"-O-P-METHOXY-CINNAMOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		45.0		--
8	STEARIC-ACID	Seed Oil		325000.0	1.7217050423196145	--
0	FIBER(CRUDE)	Leaf		111000.0	-0.42761482826376923	--
0	6-O-(ALPHA-L-(2"-O-CAFFEOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		6.0		--
11	ISORHAMNETIN	Flower				--
9	BETA-AMYRIN	Stem				--
2	ARENARIOSIDE	Plant		22.0		--
0	VERBACOSIDE	Plant		333.0		--
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-E	Plant		1.5		--
0	HEPTAOSE	Root				--
0	6-O-(ALPHA-L-(4"-O-P-COUMAROYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		17.0		--
0	SAIKOGENIN-A	Fruit				--
0	AJUGOL	Plant		75.0		--
0	6-O-(ALPHA-L-(2"-ISOFERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		69.0		--
0	HYDROXYTHAPSUINE-B	Fruit				--
9	BETA-AMYRIN	Leaf				--
47	BETA-SITOSTEROL	Seed				--
0	ARACHIDIC-ACID	Seed Oil		16000.0	1.1596625611969296	--
0	OCTAOSE	Root				--
0	VERATRIC-ACID	Fruit				--
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-D	Plant		0.6		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6-O-(ALPHA-L-(4"-FERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		8.0		--
13	PALMITIC-ACID	Seed Oil		656000.0	3.1527427453153964	--
15	FIBER	Leaf		111000.0	-0.6249222392756235	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	6-O-(ALPHA-L-(2"-FERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		10.0		--
0	HYDROXYTHAPSUINE-A	Fruit				--
9	BENZYL-ALCOHOL	Seed				--
6	ARABINOGALACTAN	Flower				--
0	NONAOSE	Root				--
0	28-NOR-OLEANA-12,17-DIEN-3-BETA-23-DIOL	Fruit				--
0	THAPSUINE-B	Fruit				--
3	CATALPOL	Shoot				--
0	6-O-(ALPHA-L-(3,3,4-DIEMTHOXY-CINNAMOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		9.0		--
64	OLEANOLIC-ACID	Flower				--
0	WATER	Leaf		560000.0	-1.2354599137200606	--
0	6-O-BETA-XYLOXYL-AUCUBIN	Plant				--
6	HARPAGOSIDE	Plant		89.0		--
1	BEHENIC-ACID	Seed Oil		3000.0	-1.2213893416546542	--
5	SAPONINS	Plant				--
20	AUCUBIN	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	ALPHA-SPINASTEROL	Fruit				--
0	5-ETHOXY-METHYL-FURFURAL	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	THAPSUINE-A	Fruit				--
2	CAMPESTEROL	Stem				--
0	6-O-(ALPHA-L-(3''-O-P-METHOXY-CINNAMOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		56.0		--
0	OLEANA-11,13(18)-DIEN-3-BETA-23,28-TRIOL	Fruit				--
0	VERBASTEROL	Plant				--
0	6-O-VANILLOYL-AJUGOL	Plant		19.0		--
0	HARPAGIDE-ACETATE	Plant				--
1	BEHENIC-ACID	Flower				--
13	ROTENONE	Leaf				--
10	ALPHA-AMYRIN	Root				--
3	MUCILAGE	Seed		3700.0	-1.2198632439349997	--
0	3,5-DIHYDROXY-6,7-DIMETHOXY-FLAVONE	Plant		80.0		--
2	TARAXASTEROL	Seed				--
47	BETA-SITOSTEROL	Root				--
0	6-O-(ALPHA-L-(3''-O-P-COUMAROYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		37.0		--
3	MUCILAGE	Flower				--
20	VERBASCOSIDE	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.
10	CROCETIN	Flower				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	6-O-SYRINGOYL-AJUGOL	Plant		0.8		--
6	HARPAGIDE	Plant		70.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	AUCUBIN-6-XYLOSIDE	Plant				--
10	ALPHA-AMYRIN	Stem				--
0	3-ALPHA-HYDROXYDRIMMANYL-8-METHANOATE	Plant				--
14	SUCROSE	Seed Oil				--
47	BETA-SITOSTEROL	Stem				--
0	6-O-(ALPHA-L-(3"-ISOFERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		39.0		--
21	LUPEOL	Root				--
1	VERBASCOSE	Root				--
57	COUMARIN	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FUNGISTEROL	Seed Oil				--
0	AUCUBIN-6-GLUCOSIDE	Plant				--
5	ALUMINUM	Leaf		1090.0	0.3892201259242459	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	6-O-(P-HYDROXY-BENZOYL)-AJUGOL	Plant		4.8		--
10	ALPHA-AMYRIN	Leaf				--
0	CATALPOL-6-O-(ALPHA-L-(3"-O-CAFFEOYL)-RHAMNOPYRANOSYL)	Plant		21.0		--
12	STIGMASTEROL	Root				--
47	BETA-SITOSTEROL	Leaf				--
0	6-O-(ALPHA-L-(2"-P-METHOXY-CINNAMOYL-3"-O-ACETYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		20.0		--
21	LUPEOL	Stem				--