

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Verbascum thapsus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
112	ASCORBIC-ACID	Leaf	341.0	776.0	-0.3719171852420888	--
77	ZINC	Leaf	0.2	0.4	-0.524313284412666	--
65	MAGNESIUM	Leaf	1421.0	3230.0	-0.34587713524983377	--
64	OLEANOLIC-ACID	Flower				--
60	SELENIUM	Leaf	0.2	0.5	-0.34412954703445015	--
57	COUMARIN	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
53	BETA-CAROTENE	Leaf	19.0	43.0	-0.9506764482123975	--
47	BETA-SITOSTEROL	Flower				--
47	BETA-SITOSTEROL	Seed				--
47	BETA-SITOSTEROL	Root				--
47	BETA-SITOSTEROL	Stem				--
47	BETA-SITOSTEROL	Leaf				--
47	BETA-SITOSTEROL	Seed Oil				--
39	NIACIN	Leaf	42.0	95.0	-0.030418329796116125	--
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.
31	THIAMIN	Leaf				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
28	CALCIUM	Leaf	5852.0	13300.0	-0.3510114574130655	--
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.
24	CHROMIUM	Leaf	0.6	1.4	-0.52714700936206	--
21	LUPEOL	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
21	LUPEOL	Stem				--
21	LUPEOL	Leaf				--
20	AUCUBIN	Plant		150.0	-0.3198520148637861	--
20	AUCUBIN	Shoot	25.0	13900.0		--
20	AUCUBIN	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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.
20	AUCUBIN	Stem		600.0		--
20	AUCUBIN	Leaf		100.0	-1.1297063465489834	--
18	OLEIC-ACID	Seed	292000.0	300000.0	1.4870759326450875	--
15	FIBER	Leaf		111000.0	-0.6249222392756235	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
15	RIBOFLAVIN	Leaf	0.5	1.1	-0.172705289047245	--
14	MANGANESE	Leaf	5.3	12.0	-0.43993638289409226	--
14	SUCROSE	Seed Oil				--
14	POTASSIUM	Leaf	5808.0	13200.0	-0.7570441086555757	--
13	PALMITIC-ACID	Seed		309600.0	5.688451515633364	--
13	PALMITIC-ACID	Seed Oil		656000.0	3.1527427453153964	--
13	ROTENONE	Leaf				--
12	STIGMASTEROL	Stem				--
12	STIGMASTEROL	Leaf				--
12	STIGMASTEROL	Root				--
12	STIGMASTEROL	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	ISORHAMNETIN	Flower				--
10	ALPHA-AMYRIN	Root				--
10	CROCETIN	Flower				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
10	ALPHA-AMYRIN	Stem				--
10	ALPHA-AMYRIN	Leaf				--
9	BETA-AMYRIN	Root				--
9	BETA-AMYRIN	Seed				--
9	BETA-AMYRIN	Stem				--
9	BETA-AMYRIN	Leaf				--
9	BENZYL-ALCOHOL	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.
8	STEARIC-ACID	Seed Oil		325000.0	1.7217050423196145	--
6	IRON	Leaf	104.0	236.0	-0.32238008504806986	--
6	ARABINOGALACTAN	Flower				--
6	HARPAGOSIDE	Plant		89.0		--
6	HARPAGIDE	Plant		70.0		--
5	SAPONINS	Plant				--
5	ALUMINUM	Leaf		1090.0	0.3892201259242459	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	PHOSPHORUS	Leaf	2508.0	5700.0	0.13404287578502	--
4	SILICON	Leaf	3.3	7.4	-0.39118183776763965	--
4	TIN	Leaf	5.3	12.0	-0.4331991239429111	--
3	CATALPOL	Plant		50.0		--
3	CATALPOL	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	MUCILAGE	Seed		3700.0	-1.2198632439349997	--
3	MUCILAGE	Flower				--
2	ARENARIOSIDE	Plant		22.0		--
2	ALPHA-SPINASTEROL	Fruit				--
2	CAMPESTEROL	Stem				--
2	TARAXASTEROL	Seed				--
2	COBALT	Leaf	6.0	12.8	-0.22280563230793393	--
2	FORSYTHOSIDE-B	Plant		4.0		--
1	SODIUM	Leaf	334.0	760.0	-0.5123036729552699	--
1	BEHENIC-ACID	Seed Oil		3000.0	-1.2213893416546542	--
1	BEHENIC-ACID	Flower				--
1	VERBASCOSE	Root				--
1	XYLOGLUCAN	Flower				--
0	THIAMINE	Leaf				--
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		--
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		--
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-G	Plant		2.4		--
0	VERBASCUM-LIGNAN-GLYCOSIDE-13	Plant		1.0		--
0	FIBER(DIETARY)	Leaf		350000.0	-0.29464124786862994	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6-O-(ALPHA-L-(4-CAFFEOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		9.0		--
0	CARBOHYDRATES	Leaf	353320.0	803000.0	1.5201450259731908	--
0	6-O-(ALPHA-L-(2"-O-P-COUMAROYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		22.0		--
0	LATERIOSIDE	Plant		5390.0		--
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-F	Plant		2.0		--
0	VERBASCOSAPONIN	Flower				--
0	FIBER(CRUDE)	Leaf		111000.0	-0.42761482826376923	--
0	6-O-(ALPHA-L-(4"-O-P-METHOXY-CINNAMOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		45.0		--
0	6-O-(ALPHA-L-(2"-O-CAFFEOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		6.0		--
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-E	Plant		1.5		--
0	VERBACOSIDE	Plant		333.0		--
0	AJUGOL	Plant		75.0		--
0	HEPTAOSE	Root				--
0	6-O-(ALPHA-L-(4"-O-P-COUMAROYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		17.0		--
0	SAIKOGENIN-A	Fruit				--
0	6-O-(ALPHA-L-(2"-ISOFERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		69.0		--
0	HYDROXYTHAPSUINE-B	Fruit				--
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-D	Plant		0.6		--
0	ARACHIDIC-ACID	Seed Oil		16000.0	1.1596625611969296	--
0	OCTAOSE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	VERATRIC-ACID	Fruit				--
0	6-O-(ALPHA-L-(4"-FERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		8.0		--
0	6-O-(ALPHA-L-(2"-FERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		10.0		--
0	HYDROXYTHAPSUINE-A	Fruit				--
0	NONAOSE	Root				--
0	28-NOR-OLEANA-12,17-DIEN-3-BETA-23-DIOL	Fruit				--
0	THAPSUINE-B	Fruit				--
0	WATER	Leaf		560000.0	-1.2354599137200606	--
0	FAT	Seed	35000.0	271000.0	0.029562564488382438	--
0	6-O-(ALPHA-L-(3,3,4-DIEMTHOXY-CINNAMOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		9.0		--
0	6-O-BETA-XYLOXYL-AUCUBIN	Plant				--
0	5-ETHOXY-METHYL-FURFURAL	Fruit				--
0	THAPSUINE-A	Fruit				--
0	VERBASTEROL	Plant				--
0	FAT	Leaf	5720.0	13000.0	-0.8660602512576238	--
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	6-O-VANILLOYL-AJUGOL	Plant		19.0		--
0	HARPAGIDE-ACETATE	Plant				--
0	ASH	Leaf	37840.0	86000.0	-0.5788064877331136	--
0	3,5-DIHYDROXY-6,7-DIMETHOXY-FLAVONE	Plant		80.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6-O-(ALPHA-L-(3"-O-P-COUMAROYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		37.0		--
0	6-O-SYRINGOYL-AJUGOL	Plant		0.8		--
0	AUCUBIN-6-XYLOSIDE	Plant				--
0	3-ALPHA-HYDROXYDRIMMANYL-8-METHANOATE	Plant				--
0	6-O-(ALPHA-L-(3"-ISOFERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		39.0		--
0	6-O-(P-HYDROXY-BENZOYL)-AJUGOL	Plant		4.8		--
0	FUNGISTEROL	Seed Oil				--
0	AUCUBIN-6-GLUCOSIDE	Plant				--
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.
0	CATALPOL-6-O-(ALPHA-L-(3"-O-CAFFEOYL)-RHAMNOPYRANOSYL)	Plant		21.0		--
0	6-O-(ALPHA-L-(2"-P-METHOXY-CINNAMOYL-3"-O-ACETYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		20.0		--
0	PROTEIN	Leaf	47520.0	108000.0	-1.035954705344622	--
0	AJUGOL-ACETATE	Plant				--
0	6-O-(ALPHA-L-(2,3,4-DIMETHOXY-CINNAMOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		5.0		--
0	6-O-(ALPHA-L-(2"-O-P-METHOXY-CINNAMOYL-4"-O-ACETYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		9.0		--
0	ERGOSTEROL-PEROXIDE	Flower				--
0	VERBASCUM-PHENYLETHANOID-GLYCOSIDE	Plant		1.0		--