

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Verbascum thapsus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	PALMITIC-ACID	Seed		309600.0	5.688451515633364	--
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.
13	PALMITIC-ACID	Seed Oil		656000.0	3.1527427453153964	--
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	--
0	CARBOHYDRATES	Leaf	353320.0	803000.0	1.5201450259731908	--
18	OLEIC-ACID	Seed	292000.0	300000.0	1.4870759326450875	--
0	ARACHIDIC-ACID	Seed Oil		16000.0	1.1596625611969296	--
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	--
0	FAT	Seed	35000.0	271000.0	0.029562564488382438	--
39	NIACIN	Leaf	42.0	95.0	-0.030418329796116125	--
15	RIBOFLAVIN	Leaf	0.5	1.1	-0.172705289047245	--
2	COBALT	Leaf	6.0	12.8	-0.22280563230793393	--
0	FIBER(DIETARY)	Leaf		350000.0	-0.29464124786862994	--
20	AUCUBIN	Plant		150.0	-0.3198520148637861	--
6	IRON	Leaf	104.0	236.0	-0.32238008504806986	--
60	SELENIUM	Leaf	0.2	0.5	-0.34412954703445015	--
65	MAGNESIUM	Leaf	1421.0	3230.0	-0.34587713524983377	--
28	CALCIUM	Leaf	5852.0	13300.0	-0.3510114574130655	--
112	ASCORBIC-ACID	Leaf	341.0	776.0	-0.3719171852420888	--
4	SILICON	Leaf	3.3	7.4	-0.39118183776763965	--
0	FIBER(CRUDE)	Leaf		111000.0	-0.42761482826376923	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	TIN	Leaf	5.3	12.0	-0.4331991239429111	--
14	MANGANESE	Leaf	5.3	12.0	-0.43993638289409226	--
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.
1	SODIUM	Leaf	334.0	760.0	-0.5123036729552699	--
77	ZINC	Leaf	0.2	0.4	-0.524313284412666	--
24	CHROMIUM	Leaf	0.6	1.4	-0.52714700936206	--
0	KILOCALORIES	Leaf		2680.0	-0.5449589251776649	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ASH	Leaf	37840.0	86000.0	-0.5788064877331136	--
15	FIBER	Leaf		111000.0	-0.6249222392756235	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
14	POTASSIUM	Leaf	5808.0	13200.0	-0.7570441086555757	--
0	FAT	Leaf	5720.0	13000.0	-0.8660602512576238	--
53	BETA-CAROTENE	Leaf	19.0	43.0	-0.9506764482123975	--
0	PROTEIN	Leaf	47520.0	108000.0	-1.035954705344622	--
20	AUCUBIN	Leaf		100.0	-1.1297063465489834	--
3	MUCILAGE	Seed		3700.0	-1.2198632439349997	--
1	BEHENIC-ACID	Seed Oil		3000.0	-1.2213893416546542	--
0	WATER	Leaf		560000.0	-1.2354599137200606	--
0	THIAMINE	Leaf				--
0	6-O-(ALPHA-L-ISOFERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		19.0		--
12	STIGMASTEROL	Stem				--
47	BETA-SITOSTEROL	Flower				--
3	CATALPOL	Plant		50.0		--

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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	VERBASCUM-LIGNAN-GLYCOSIDE-13	Plant		1.0		--
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-G	Plant		2.4		--
0	6-O-(ALPHA-L-(4-CAFFEOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		9.0		--
12	STIGMASTEROL	Leaf				--
9	BETA-AMYRIN	Root				--
0	6-O-(ALPHA-L-(2"-O-P-COUMAROYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		22.0		--
0	LATERIOSIDE	Plant		5390.0		--
9	BETA-AMYRIN	Seed				--
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-F	Plant		2.0		--
20	AUCUBIN	Shoot	25.0	13900.0		--
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.
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		--
11	ISORHAMNETIN	Flower				--

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9	BETA-AMYRIN	Stem				--
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-E	Plant		1.5		--
2	ARENARIOSIDE	Plant		22.0		--
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				--
47	BETA-SITOSTEROL	Seed				--
0	6-O-(ALPHA-L-(2"-ISOFERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		69.0		--
0	HYDROXYTHAPSUINE-B	Fruit				--
9	BETA-AMYRIN	Leaf				--
0	DEHYDRO-DICONIFERYL-GLUCOSIDE-D	Plant		0.6		--
0	OCTAOSE	Root				--
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				--
9	BENZYL-ALCOHOL	Seed				--
3	CATALPOL	Shoot				--
6	ARABINO GALACTAN	Flower				--
0	NONAOSE	Root				--

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0	28-NOR-OLEANA-12,17-DIEN-3-BETA-23-DIOL	Fruit				--
0	THAPSUINE-B	Fruit				--
0	6-O-(ALPHA-L-(3,3,4-DIEMTHOXY-CINNAMOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		9.0		--
64	OLEANOLIC-ACID	Flower				--
0	6-O-BETA-XYLOXYL-AUCUBIN	Plant				--
6	HARPAGOSIDE	Plant		89.0		--
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	CAMPESTEROL	Stem				--
2	ALPHA-SPINASTEROL	Fruit				--
0	5-ETHOXY-METHYL-FURFURAL	Fruit				--
0	THAPSUINE-A	Fruit				--
0	VERBASTEROL	Plant				--
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				--
1	BEHENIC-ACID	Flower				--
13	ROTENONE	Leaf				--
10	ALPHA-AMYRIN	Root				--
0	3,5-DIHYDROXY-6,7-DIMETHOXY-FLAVONE	Plant		80.0		--
2	TARAXASTEROL	Seed				--

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47	BETA-SITOSTEROL	Root				--
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-(ALPHA-L-(3''-O-P-COUMAROYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		37.0		--
3	MUCILAGE	Flower				--
0	6-O-SYRINGOYL-AJUGOL	Plant		0.8		--
6	HARPAGIDE	Plant		70.0		--
0	AUCUBIN-6-XYLOSIDE	Plant				--
10	ALPHA-AMYRIN	Stem				--
0	3-ALPHA-HYDROXYDRIMMANYL-8-METHANOATE	Plant				--
14	SUCROSE	Seed Oil				--
47	BETA-SITOSTEROL	Stem				--
1	VERBASCOSIDE	Root				--
57	COUMARIN	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	6-O-(ALPHA-L-(3''-ISOFERULOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		39.0		--
21	LUPEOL	Root				--
0	6-O-(P-HYDROXY-BENZOYL)-AJUGOL	Plant		4.8		--
0	FUNGISTEROL	Seed Oil				--

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0	AUCUBIN-6-GLUCOSIDE	Plant				--
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				--
1	XYLOGLUCAN	Flower				--
2	FORSYTHOSIDE-B	Plant		4.0		--
20	AUCUBIN	Stem		600.0		--
0	AJUGOL-ACETATE	Plant				--
0	6-O-(ALPHA-L-(2,3,4-DIMETHOXY-CINNAMOYL)-RHAMNOPYRANOSYL)-CATALPOL	Plant		5.0		--
12	STIGMASTEROL	Seed				--
47	BETA-SITOSTEROL	Seed Oil				--
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	VERBASCUM-PHENYLETHANOID-GLYCOSIDE	Plant		1.0		--
0	ERGOSTEROL-PEROXIDE	Flower				--