

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Valeriana officinalis*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	WATER	Root		882000.0	0.7380110340947351	--
0	CARBOHYDRATES	Root	88500.0	750000.0	-1.02724083866397	--
0	ISOBORNEOL-ISOVALERATE	Leaf Essent. Oil	112500.0	478000.0		--
0	ALPHA-ELAEOSTEARIC-ACID	Seed Oil		446000.0		--
0	FIBER(DIETARY)	Root		423000.0	0.2683457549147254	--
0	BORNEOL-ACETATE	Leaf Essent. Oil	4000.0	335900.0	2.416530768198088	--
0	BORNEOL-ACETATE	Root Essent. Oil		315000.0	1.4142135623730943	--
28	ALPHA-PINENE	Leaf Essent. Oil	1000.0	239100.0	0.5622004446693538	--
0	CAPRONIC-ACID	Plant		204000.0		--
0	ISOVALERIANIC-ACID	Root		200000.0		--
27	LINOLEIC-ACID	Plant		165000.0	1.9964479270741882	--
35	BORNEOL	Leaf Essent. Oil	18200.0	153000.0	1.4070251447294047	--
7	ISOBORNEOL	Leaf Essent. Oil	18200.0	153000.0	1.0	--
0	ASH	Root	16874.0	143000.0	2.1542605445719727	--
0	GUM	Root	14160.0	120000.0	0.562939968780601	--
6	VALEPOTRIATES	Tissue Culture		103000.0		Medline (post 1990 searches filed in my computer)
0	VALERANAL	Leaf Essent. Oil	56000.0	101500.0		--
0	(-)-PACIFIGORGIOL	Essential Oil	7000.0	86000.0		--
0	PROTEIN	Root	10148.0	86000.0	-0.3639841360982529	--
13	PALMITIC-ACID	Root		83000.0	3.577003804191027	--
0	FIBER(CRUDE)	Root		79000.0	-0.9546329903137257	--
15	FIBER	Root		79000.0	-0.20236031507008168	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
31	CARYOPHYLLENE	Root Essent. Oil		76000.0	1.0	--
23	ALPHA-TERPINEOL	Leaf Essent. Oil	9500.0	75400.0	0.6587837647764052	--
0	VALERANONE	Leaf Essent. Oil	30400.0	67500.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	1,8-CINEOL	Leaf Essent. Oil	37700.0	65100.0	-0.4818256731898833	--
20	GAMMA-LINOLENIC-ACID	Plant		62000.0		--
20	CHOLINE	Leaf	52000.0	58000.0	3.080709728318331	--
19	D-LIMONENE	Leaf Essent. Oil		55000.0	-1.0	--
31	CARYOPHYLLENE	Leaf Essent. Oil		51000.0	-0.5095909536194779	--
0	SACCHAROSE	Plant		50000.0		--
13	BETA-PINENE	Root Essent. Oil		48000.0	-0.542129322911591	--
13	BETA-PINENE	Leaf Essent. Oil	5400.0	43000.0	1.0456103749959569	--
28	CALCIUM	Root	4956.0	42000.0	3.7890171974850206	--
20	CHOLINE	Stem		30000.0		--
1	RAFFINOSE	Root		30000.0	-0.5987994606248946	--
20	CHOLINE	Root	3540.0	30000.0	3.1398996373571895	--
0	EO	Leaf	2300.0	28000.0	1.4482555378393345	--
60	LIMONENE	Leaf Essent. Oil	2300.0	25500.0	-0.5655050351348929	--
28	ALPHA-PINENE	Root Essent. Oil		25000.0	-0.9573580453647603	--
1	N-BUTYL-VALERATE	Leaf Essent. Oil	4.0	24600.0		--
6	VALEPOTRIATES	Root	1000.0	23600.0	-1.0	--
0	FAT	Root	2714.0	23000.0	0.004007840419506115	--
0	PENTYL-VALERATE	Leaf Essent. Oil	1800.0	22200.0		--
0	EO	Root	590.0	20000.0	0.2872600243161038	--
2	VALTRATE	Root	4000.0	18000.0		--
0	CITRONELLOL-ISOVALERATE	Leaf Essent. Oil	15900.0	18000.0		--
7	GLUCOSE	Root		15000.0	-0.18931013947995629	--
0	VALEROSIDATE	Root		15000.0		--
0	BORNEOL-ISOVALERIANATE	Root Essent. Oil		15000.0		--
5	SABINENE	Leaf Essent. Oil	1200.0	13600.0	-0.41148866867411177	--
0	BETA-CARYOPHYLLENE	Leaf Essent. Oil	2500.0	13600.0	-0.32499336547223034	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-CUBEBENE	Leaf Essent. Oil	6500.0	13100.0	1.3377190100358967	--
1	N-VALERALDEHYDE	Leaf Essent. Oil	2200.0	12300.0		--
0	ISOBORNYL-ISOVALERATE	Leaf	260.0	12190.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	VALERANONE	Root	555.0	11120.0		--
14	POTASSIUM	Root	1215.0	10300.0	-0.4011752971664641	--
0	BORNYL-ISOVALERATE	Root	250.0	9780.0	1.0	--
0	ALLO-AROMADENDRENE	Leaf Essent. Oil		9700.0	-0.42565395460505273	--
9	TERPINOLENE	Leaf Essent. Oil	3100.0	9200.0	0.09987956540879277	--
8	FRUCTOSE	Root		9000.0	-0.4564787045656782	--
6	BETA-BISABOLENE	Leaf Essent. Oil	6200.0	9000.0	-0.21732019637969832	--
12	BORNYL-ACETATE	Leaf	9.0	8565.0	4.276392512629336	--
0	ISOBORNEOL-ACETATE	Leaf Essent. Oil	2600.0	8400.0		--
0	ISOVALERIANIC-ACID	Leaf Essent. Oil		8400.0		--
2	BETA-MYRCENE	Leaf Essent. Oil	900.0	8200.0	1.0	--
77	CHLOROGENIC-ACID	Root		7300.0	0.9018283707528216	--
0	ISOVALTRATE	Root	500.0	6300.0		--
12	BORNYL-ACETATE	Root	65.0	6300.0	1.731951097266349	--
28	ALPHA-PINENE	Leaf	2.0	6095.0	0.17117059389793504	Father Nature's Farmacy: The aggregate of all these three-letter citations.
102	CAFFEIC-ACID	Root		5800.0	1.5698864543151345	--
0	ISOVALTRATE	Rhizome		5280.0		--
0	EO	Root Essent. Oil		5000.0		--
9	CAMPHENE	Leaf Essent. Oil		5000.0	-0.6992473325340675	--
0	VALERENAL	Root	30.0	4000.0		--
35	BORNEOL	Leaf	5.0	3900.0	4.352068614545992	Father Nature's Farmacy: The aggregate of all these three-letter citations.
7	ISOBORNEOL	Leaf	42.0	3900.0	1.727525839430272	Father Nature's Farmacy: The aggregate of all these three-letter citations.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
65	MAGNESIUM	Root	375.0	3180.0	0.3290823349317941	--
2	ISOBORNYL-ACETATE	Root	55.0	3030.0		--
13	BETA-IONONE	Leaf Essent. Oil	1800.0	3000.0	-1.0	--
18	OLEIC-ACID	Plant		3000.0	-0.3289098475993685	--
0	VALERANAL	Leaf	130.0	2590.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	(-)-MYRTENOL	Leaf Essent. Oil	1200.0	2400.0		--
23	ALPHA-TERPINEOL	Root	95.0	2365.0	1.9966237635178776	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	PACIFIGORGIOL	Leaf	16.0	2195.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	FAURINONE	Root	105.0	2080.0		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	ALKALOIDS	Root	500.0	2000.0	-0.8237252063158436	--
23	ALPHA-TERPINEOL	Leaf	22.0	1925.0	2.7888857564875424	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	VALERANONE	Leaf	70.0	1720.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	ACETOXYVALERENOIC- ACID	Root	10.0	1680.0		--
67	1,8-CINEOLE	Leaf	85.0	1660.0	-0.31670589111205333	--
19	CARVONE	Root	80.0	1640.0	1.4122006603747708	--
31	CARYOPHYLLENE	Root	29.0	1520.0	1.7213037548491001	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	VALERENONIC-ACID	Root	190.0	1400.0		--
3	BETA-PHELLANDRENE	Leaf Essent. Oil		1400.0	-0.8017042912228218	--
19	D-LIMONENE	Leaf	125.0	1400.0		--
2	ELEMOL	Leaf Essent. Oil		1400.0	-1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
31	CARYOPHYLLENE	Leaf	115.0	1300.0	0.05756656381480434	Father Nature's Farmacy: The aggregate of all these three-letter citations.
13	BETA-PINENE	Leaf	12.0	1100.0	1.193361081814098	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	ISOVALEROXY-HYDROXY- DIDROVALTRATE	Root	25.0	1000.0		--
0	DIDROVALTRATE	Root	50.0	1000.0		--
13	BETA-PINENE	Root	50.0	960.0	0.40905564902771346	--
71	THYMOL	Root	3.0	860.0		--
13	ALPHA-TERPINENE	Leaf Essent. Oil		600.0	-0.698535055754104	--
0	PENTYL-VALERATE	Leaf	4.0	565.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
28	ALPHA-PINENE	Root	1.0	500.0	-0.5389356389673264	Father Nature's Farmacy: The aggregate of all these three-letter citations.
35	BORNEOL	Root	5.0	460.0		--
0	CITRONELLOL- ISOVALERATE	Leaf	36.0	460.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
2	VALTRATE	Tissue Culture	380.0	450.0		--
0	VALEROSIDE-A	Rhizome		440.0		--
0	VALEROSIDE-A	Root		440.0		--
5	ALUMINUM	Root	50.0	422.0	-0.0860532203055952	--
5	SABINENE	Leaf	3.0	345.0	-0.041395703025686854	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	BETA-CARYOPHYLLENE	Leaf	6.0	345.0	-0.16591106399250605	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	BETA-CUBEBENE	Leaf	15.0	335.0	0.671116986901806	Father Nature's Farmacy: The aggregate of all these three-letter citations.
4	PHOSPHORUS	Root	39.0	330.0	-0.560116109548552	--
1	N-VALERALDEHYDE	Leaf	5.0	315.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	HOMOACEVALTRATE	Root		300.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BORNYL-ISOVALERIANATE	Root	15.0	300.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	N-(2-(4-HYDROXY-PHENYL)-ETHYL)-ACTINIDINIUM	Root		300.0		--
9	TERPINOLENE	Leaf	7.0	235.0	0.06726575623522042	Father Nature's Farmacy: The aggregate of all these three-letter citations.
1	SODIUM	Root	27.0	230.0	-0.40568103697114866	--
32	ALPHA-TOCOPHEROL	Flower		221.0	1.0	--
0	ISOVALERIANIC-ACID	Leaf	0.0	215.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
2	BETA-MYRCENE	Leaf	2.0	210.0	-0.32305897742328993	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	ALLO-AROMADENDRENE	Root	0.0	195.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
37	CARVACROL	Root	10.0	195.0		--
6	BETA-BISABOLENE	Root	2.0	165.0	1.2460935416054946	--
0	DELTA-BISABOLENE	Root	8.0	150.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
9	CAMPHENE	Leaf	0.0	130.0	-0.14355459328033415	Father Nature's Farmacy: The aggregate of all these three-letter citations.
35	GERANIOL	Root	1.0	120.0	-1.0	Father Nature's Farmacy: The aggregate of all these three-letter citations.
1	ACEVALTRATE	Root		120.0		--
1	ACEVALTRATE	Tissue Culture	100.0	120.0		--
2	MYRTENOL	Root	3.0	85.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
13	BETA-IONONE	Leaf	4.0	75.0	1.7125460902896001	Father Nature's Farmacy: The aggregate of all these three-letter citations.
9	CAMPHENE	Root	3.0	65.0	-0.7900657071763403	--
0	(-)-MYRTENOL	Leaf	3.0	60.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
39	NIACIN	Root	6.0	52.0	0.051041041724226174	--
6	IRON	Root	6.0	48.0	-0.3719192616723782	--
0	DIDROVALTRATE	Tissue Culture		40.0		--
2	ELEMOL	Leaf	3.0	36.0	-1.0467417211593815	Father Nature's Farmacy: The aggregate of all these three-letter citations.
3	BETA-PHELLANDRENE	Leaf		35.0	-0.3807332732105446	Father Nature's Farmacy: The aggregate of all these three-letter citations.
4	TIN	Root	3.3	28.0	1.1703735322377322	--
13	ALPHA-TERPINENE	Leaf		15.0	-0.30461131542122966	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	N-(2-(4-HYDROXY-PHENYL)-ETHYL)-10-HYDROXY-ACTINIDINIUM	Root		10.0		--
14	MANGANESE	Root	0.7	5.6	-0.4790041559713029	--
2	COBALT	Root	0.6	4.8	-0.4410243796700459	--
60	SELENIUM	Root	0.5	4.4	-0.04945181208643408	--
4	ACTINIDINE	Rhizome		1.8		--
24	CHROMIUM	Root	0.2	1.8	-0.20117706529794718	--
0	THIAMINE	Root	0.2	1.6	-0.5431066510912689	--
31	THIAMIN	Root		1.6	-0.45141259736321837	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
15	RIBOFLAVIN	Root	0.1	1.2	-0.6290718793872899	--
4	SILICON	Root	0.1	0.9	-0.3387704380211594	--
4	ACTINIDINE	Root		0.5		--
112	ASCORBIC-ACID	Root		0.0	-0.6459735820044326	--
0	ISOEUGENOL-ISOVALERATE	Root Essent. Oil				--
0	BALDRIANIC-ACID	Root				--
0	BORNEOL-ISOVALERATE	Rhizome Essent. Oil				--
0	VALENOL-ISOVALERATE	Rhizome				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	KESSYL-GLYCOL-DIACETATE	Root				--
0	(-)-CARYOPHYLLENE	Root Essent. Oil				--
0	BISABOLOL	Root				--
9	CAMPHENE	Essential Oil				--
0	VALTRATE-ISOVALEROXYHYDRIN	Root				--
0	(-)-ALPHA-PINENE	Root Essent. Oil				--
0	VALERENOLIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	CRYPTOFAURONOL	Root				--
0	VALERIADIPYRIDONE	Rhizome				--
0	MYRTENYL-ISOVALERIANATE	Root				--
3	ASPARTIC-ACID	Rhizome				--
23	ALPHA-TERPINEOL	Root Essent. Oil				--
1	CATALASE	Root				--
2	LEUCINE	Rhizome				--
0	BETA-VALENE	Root				--
9	TERPINOLENE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
22	GAMMA-AMINOBUTYRIC-ACID	Root				--
0	VALERANONE	Essential Oil				--
0	KESSENE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
22	MYRCENE	Root				--
1	CHOLESTEROL	Plant				Lokar, L. C., Martini, F. 1997. Chemotaxonomic Investigations on the Genus Valeriana L. in the Northeastern Italy and in Tuscany. I. Phytosterols. Dept. of Biology, University of Trieste. Allionia 35: 103-115.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	ALPHA-PINENE	Essential Oil				--
0	EUGENOL-VALERATE	Root Essent. Oil				--
10	AZULENE	Root				--
3	VALINE	Rhizome				--
0	BORNEOL-FORMATE	Root Essent. Oil				--
0	VALENOL	Rhizome				--
1	N-(P-HYDROXYPHENETHYL)-ACTINIDINE	Root				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	(-)-CAMPHENE	Root Essent. Oil				--
0	EUGENYL-ISOVALERATE	Root				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	(-)-ALPHA-FENCHENE	Root Essent. Oil				--
0	KANOKOSIDES	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	CHATINENE	Root				--
0	VALERENOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
1	MYRTENYL-ACETATE	Root				--
0	TANNINS	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
2	ASPARAGINE	Rhizome				--
0	SKYANTHINE	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	GAMMA-TERPINENE	Root Essent. Oil				--
22	GABA	Root				--
3	ALPHA-CURCUMENE	Root				--
0	ALPHA-KESSYL-ALCOHOL	Root				--
0	BETA-SITOSTEROL-STEARATE	Root				--
0	KESSANE	Plant				--
15	MALIC-ACID	Root				--
0	CHOLESTERIL-N-VALERATE	Plant				Lokar, L. C., Martini, F. 1997. Chemotaxonomic Investigations on the Genus Valeriana L. in the Northeastern Italy and in Tuscany. I. Phytosterols. Dept. of Biology, University of Trieste. Allionia 35: 103-115.
0	PEROXIDASE	Plant				--
0	VALERENOL-VALERATE	Root				--
0	GAMMA-VALENE	Rhizome				--
0	(-)-BORNEOL-ISOVALERATE	Root Essent. Oil				--
0	7-EPIDEACETYLIISOVALTRATE	Root				--
35	BORNEOL	Root Essent. Oil				--
0	EREMOPHILENE	Plant				--
0	EUGENOL-ISOVALERATE	Leaf Essent. Oil				--
75	KAEMPFEROL	Plant				--
1	CATALASE	Plant				--
4	VALERENIC-ACID	Root				--
0	ACETOXY-VALEPOTRIATUM	Plant				--
2	VALERENONE	Rhizome				--
2	MYRTENOL	Plant				--
8	STEARIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALLO-AROMADENDRENE	Root Essent. Oil				--
0	ISOVALTRATES	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	(-)-ALLOAROMADENDRENE	Root Essent. Oil				--
0	GAMMA-VALENE	Root				--
0	PEROXIDASE	Root				--
0	KESSANE	Root Essent. Oil				--
47	BETA-SITOSTEROL	Root				--
78	LUTEOLIN	Root				--
2	CAMPESTEROL	Plant				Lokar, L. C., Martini, F. 1997. Chemotaxonomic Investigations on the Genus Valeriana L. in the Northeastern Italy and in Tuscany. I. Phytosterols. Dept. of Biology, University of Trieste. Allionia 35: 103-115.
0	PATCHOLYL-ALCOHOL	Root				--
0	VALERENOL-HEXANDRATE	Root				--
0	BORNEOL-ACETATE	Rhizome				--
0	DELTA-VALENE	Rhizome				--
0	ISOBORNYL-ISOVALERATE	Root				Medline (post 1990 searches filed in my computer)
0	(-)-BORNEOL-ISOVALERATE	Root				--
0	VALEROSIDATUM	Root				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	EUGENOL-ISOVALERATE	Root Essent. Oil				--
0	VALERENAL	Plant				--
16	ACETIC-ACID	Root				--
0	VALERENOLIC-ACID	Root				--
22	MYRCENE	Plant				--
47	BETA-SITOSTEROL	Rhizome				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	EUGENYL-ACETATE	Root				--
0	(-)-ACTINIDINE	Root				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
11	GAMMA-TERPINENE	Root				--
0	ISOVALEROXY-DIHYDROVALTRATE	Rhizome				--
0	ISOBORNEOL-ISOVALERATE	Root Essent. Oil				--
0	VALERANONE	Rhizome				--
0	LIPASE	Root				--
0	7-BETA-ACEVALTRATE	Root				--
47	BETA-SITOSTEROL	Plant				Lokar, L. C., Martini, F. 1997. Chemotaxonomic Investigations on the Genus Valeriana L. in the Northeastern Italy and in Tuscany. I. Phytosterols. Dept. of Biology, University of Trieste. Allionia 35: 103-115.
0	CARVYL-ACETATE	Root				--
31	CARYOPHYLENE	Rhizome Essent. Oil				--
13	PALMITIC-ACID	Plant				--
0	BORNEOL-ACETATE	Essential Oil				--
0	BETA-VALENE	Rhizome				--
0	(-)-BORNEOL-ACETATE	Root				--
35	BORNEOL	Essential Oil				--
0	DIHYDROVALEPOTRIATUM	Plant				--
0	VALERINE	Root				--
0	VALERINE	Leaf				--
5	ISOVALERIC-ACID	Root				--
0	VALEPOTRIATUM	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CHATININE	Leaf				--
0	8-EPIKESSANOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	VALERENOLIC-ACID	Root Essent. Oil				--
14	ARGININE	Rhizome				--
1	SERINE	Rhizome				--
0	EUDESMOL	Root				--
60	LIMONENE	Root				--
6	GUAIAZULENE	Root Essent. Oil				--
3	BETA-PHELLANDRENE	Root				--
0	ISOVALEROXY-HYDROXY-DIHYDROVALTRATE	Root				--
0	VALERANONE	Root Essent. Oil				--
0	1-ALPHA-ACEVALTRATE	Root				--
0	PATCHOULYL-ALCOHOL	Root				--
31	CARYOPHYLLENE	Essential Oil				--
0	VALERANINE	Root				--
0	VALECHLORIN	Plant				--
3	(-)-BORNEOL	Root				--
0	TRANS-VALERENOL-ISOVALERATE	Root				--
9	VALERIC-ACID	Root				--
0	(+)-EREMOPHILENE	Root Essent. Oil				--
0	ALPHA-VALENE	Root				--
0	VALERIDINE	Root				--
0	P-CYMOL	Root				--
0	CHATININE	Root				--
0	7-EPIDEACETYLIISOVALTRATE	Plant				--
7	PHENYLALANINE	Rhizome				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ERGNOPHYLINE	Root				--
60	LIMONENE	Root Essent. Oil				--
5	GLUTAMINE	Rhizome				--
13	BETA-IONONE	Root				--
5	DIHYDROVALTRATE	Root				--
0	ISOBORNEOL-ACETATE	Root Essent. Oil				--
1	ACEVALTRATE	Plant				--
0	(-)-MYRTENOL-ISOVALERATE	Root				--
0	MYRTEN-1-OL-ISOVALERATE	Rhizome				--
0	GAMMA-CADINENE	Root				--
0	BORNEOL-ACETATE	Rhizome Essent. Oil				--
0	TRIDECA-12-ENE-2-4-6-8-10-PENTAYNE	Root				--
3	(-)-BORNEOL	Root Essent. Oil				--
0	TRANS-VALERENOL-ACETATE	Root				--
9	DELTA-CADINENE	Root				--
0	VALERIANONE	Root				--
0	ALPHA-METHYL-2-PYRROLYL-KETONE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
5	ISOVALERIC-ACID	Root Essent. Oil				--
25	P-COUMARIC-ACID	Plant				--
0	ISOEUGENYL-ISOVALERATE	Root				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.
53	BETA-CAROTENE	Root				--
102	CAFFEIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	VALENOL	Root				--
0	2-ACETYL-PYRROLE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ACETOXYVALERENIC-ACID	Root				--
0	MAALIOL	Root				--
3	ALANINE	Rhizome				--
0	STIGMASTEROL-ACETATE	Plant				Lokar, L. C., Martini, F. 1997. Chemotaxonomic Investigations on the Genus Valeriana L. in the Northeastern Italy and in Tuscany. I. Phytosterols. Dept. of Biology, University of Trieste. Allionia 35: 103-115.
0	ALPHA-METHYL-KETONE-PYRROLE	Root				--
2	ELEMOL	Root				--
13	FORMIC-ACID	Root				--
5	GLUTAMINE	Root				--
5	BETA-ELEMENE	Root				--
0	ACETOXYVALTRATE	Root				--
0	RESIN	Root				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	ISOVALERAMIDE	Root				--
0	KESSYL-2-OL-ACETATE	Root				--
0	MYRTEN-1-OL	Rhizome				--
7	ISOBORNEOL	Root				Medline (post 1990 searches filed in my computer)
0	(-)-BETA-PINENE	Root Essent. Oil				--
0	TRANS-VALERENOL	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DEACETYLSOLAVTRATE	Root				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	VALERIANOLIC-ACID	Root				--
0	ALPHA-KESSYL-ALCOHOL	Plant				--
0	BETA-METHYL-VALERIC-ACID	Root Essent. Oil				--
0	OXYDASE	Plant				--
0	(+)-BETA-BISABOLENE	Root Essent. Oil				--
0	OXYDASE	Root				--
0	VALECHLORINE	Root				--
0	BETA-CARYOPHYLLENE	Root Essent. Oil				--
0	(S)-(-)-ACTINIDINE	Root				--
4	VALERENIC-ACID	Root Essent. Oil				--
3	ALANINE	Root				--
12	STIGMASTEROL	Plant				Lokar, L. C., Martini, F. 1997. Chemotaxonomic Investigations on the Genus Valeriana L. in the Northeastern Italy and in Tuscany. I. Phytosterols. Dept. of Biology, University of Trieste. Allionia 35: 103-115.
16	P-CYMENE	Root				--
8	GLUTAMIC-ACID	Root				--
53	BETA-CAROTENE	Plant				--
0	ACETOXYVALTRATE	Rhizome				--
0	CIS-VALERENOL-ISOVALERATE	Root				--
7	ISOBORNEOL	Root Essent. Oil				--
0	KESSYL-6-OL-ACETATE	Root				--
0	(-)-MYRTENOL	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HOMODIDROVALTRATE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	(-)-BETA-PHELLANDRENE	Root Essent. Oil				--
0	VALERIANOL	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
16	P-CYMENE	Root Essent. Oil				--
0	ALPHA-KERZYLALCOHOL	Root				--
0	VALERIANOL	Root Essent. Oil				--
0	VALDIATE	Root				--
0	HYDROXYVALERINIC-ACID	Root				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	BORNYL-FORMATE	Root				--
0	TRIDECEN-(1)-PENTAIN(3,5,7,9,11)	Root				--
0	(+)-MAALIOXIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	VALERENAL	Essential Oil				--
0	LEDOL	Root				--
0	STIGMASTANOL	Plant				Lokar, L. C., Martini, F. 1997. Chemotaxonomic Investigations on the Genus Valeriana L. in the Northeastern Italy and in Tuscany. I. Phytosterols. Dept. of Biology, University of Trieste. Allionia 35: 103-115.
1	DIHYDROCARVYL-ACETATE	Root				--
77	ZINC	Root				--
0	BETA-METHYL-GLUCOSIDE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	VALTRATE	Plant				--
176	QUERCETIN	Plant				--
0	CIS-VALERENOL-ACETATE	Root				--
6	VALEPOTRIATES	Rhizome				--
0	KESSYL-6-OL	Root				--
22	MYRCENE	Root Essent. Oil				--
9	CAMPHENE	Root Essent. Oil				--
0	HOMODEOXYDODIDROVALTRATE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	(-)-BETA-ELEMENE	Root Essent. Oil				--
0	VALERIANINE	Root				--
3	AR-CURCUMENE	Root				--
0	ALPHA-FENCHENE	Root				--
8	TYROSINE	Root				--
1	HOMOBALDRINAL	Root				--
9	TERPINOLENE	Root Essent. Oil				--
0	HOMOVALTRATE	Root				--
0	KESSANE	Root				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	BORNYL-BUTYRATE	Root				--
0	(+)-GAMMA-CADINENE	Root Essent. Oil				--
0	VALERENAL	Root Essent. Oil				--
0	KONGOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	SQUALENE	Plant				Lokar, L. C., Martini, F. 1997. Chemotaxonomic Investigations on the Genus Valeriana L. in the Northeastern Italy and in Tuscany. I. Phytosterols. Dept. of Biology, University of Trieste. Allionia 35: 103-115.
0	DEOXYDODIDROVALTRATE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
2	ELEMOL	Essential Oil				--
0	ISOEUGENOL-VALERATE	Root Essent. Oil				--
0	BALDRITANNIC-ACID	Root				--
2	VALTRATE	Rhizome				--
0	BORNEOL-ISOVALERATE	Essential Oil				--
0	ANHYDROVALENOL-ISOVALERATE	Rhizome				--
0	KESSYL-2-OL	Root				--
0	(-)-LIMONENE	Root Essent. Oil				--
0	MAALI-ALCOHOL	Rhizome				--
9	CAMPHENE	Rhizome Essent. Oil				--
0	FAURINOL	Root				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.
3	GUAJOL	Root				--
0	(-)-AR-CURCUMENE	Root Essent. Oil				--
2	VALERENONE	Root				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
3	ALPHA-CURCUMENE	Plant				--
0	VALERIANA-PHENOL	Rhizome				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-(BETA-(P-HYDROXYPHENYL)-ETHYL)-ACTINIDINE	Plant				--
3	BALDRINAL	Root				--
0	HOMODIVALTRATE	Root				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	EREMOPHILENE	Root				--
3	ISOLEUCINE	Rhizome				--
22	GAMMA-AMINOBUTYRIC-ACID	Rhizome				--
0	KESSYL-GLYCOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	MYRTENYL-ISOVALERATE	Rhizome				--
0	(+)-ACTINIDINE	Root				--
7	CYCLOARTENOL	Plant				Lokar, L. C., Martini, F. 1997. Chemotaxonomic Investigations on the Genus Valeriana L. in the Northeastern Italy and in Tuscany. I. Phytosterols. Dept. of Biology, University of Trieste. Allionia 35: 103-115.
28	ALPHA-PINENE	Rhizome Essent. Oil				--
2	ELEMOL	Root Essent. Oil				--