

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Valeriana officinalis*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	BORNEOL	Leaf	5.0	3900.0	4.352068614545992	Father Nature's Farmacy: The aggregate of all these three-letter citations.
12	BORNYL-ACETATE	Leaf	9.0	8565.0	4.276392512629336	--
28	CALCIUM	Root	4956.0	42000.0	3.7890171974850206	--
13	PALMITIC-ACID	Root		83000.0	3.577003804191027	--
20	CHOLINE	Root	3540.0	30000.0	3.1398996373571895	--
20	CHOLINE	Leaf	52000.0	58000.0	3.080709728318331	--
23	ALPHA-TERPINEOL	Leaf	22.0	1925.0	2.7888857564875424	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	BORNEOL-ACETATE	Leaf Essent. Oil	4000.0	335900.0	2.416530768198088	--
0	ASH	Root	16874.0	143000.0	2.1542605445719727	--
23	ALPHA-TERPINEOL	Root	95.0	2365.0	1.9966237635178776	Father Nature's Farmacy: The aggregate of all these three-letter citations.
27	LINOLEIC-ACID	Plant		165000.0	1.9964479270741882	--
12	BORNYL-ACETATE	Root	65.0	6300.0	1.731951097266349	--
7	ISOBORNEOL	Leaf	42.0	3900.0	1.727525839430272	Father Nature's Farmacy: The aggregate of all these three-letter citations.
31	CARYOPHYLLENE	Root	29.0	1520.0	1.7213037548491001	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.
102	CAFFEIC-ACID	Root		5800.0	1.5698864543151345	--
0	EO	Leaf	2300.0	28000.0	1.4482555378393345	--
0	BORNEOL-ACETATE	Root Essent. Oil		315000.0	1.4142135623730943	--
19	CARVONE	Root	80.0	1640.0	1.4122006603747708	--
35	BORNEOL	Leaf Essent. Oil	18200.0	153000.0	1.4070251447294047	--
0	BETA-CUBEBENE	Leaf Essent. Oil	6500.0	13100.0	1.3377190100358967	--
6	BETA-BISABOLENE	Root	2.0	165.0	1.2460935416054946	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Leaf	12.0	1100.0	1.193361081814098	Father Nature's Farmacy: The aggregate of all these three-letter citations.
4	TIN	Root	3.3	28.0	1.1703735322377322	--
13	BETA-PINENE	Leaf Essent. Oil	5400.0	43000.0	1.0456103749959569	--
7	ISOBORNEOL	Leaf Essent. Oil	18200.0	153000.0	1.0	--
32	ALPHA-TOCOPHEROL	Flower		221.0	1.0	--
2	BETA-MYRCENE	Leaf Essent. Oil	900.0	8200.0	1.0	--
0	BORNYL-ISOVALERATE	Root	250.0	9780.0	1.0	--
31	CARYOPHYLLENE	Root Essent. Oil		76000.0	1.0	--
77	CHLOROGENIC-ACID	Root		7300.0	0.9018283707528216	--
0	WATER	Root		882000.0	0.7380110340947351	--
0	BETA-CUBEBENE	Leaf	15.0	335.0	0.671116986901806	Father Nature's Farmacy: The aggregate of all these three-letter citations.
23	ALPHA-TERPINEOL	Leaf Essent. Oil	9500.0	75400.0	0.6587837647764052	--
0	GUM	Root	14160.0	120000.0	0.562939968780601	--
28	ALPHA-PINENE	Leaf Essent. Oil	1000.0	239100.0	0.5622004446693538	--
13	BETA-PINENE	Root	50.0	960.0	0.40905564902771346	--
65	MAGNESIUM	Root	375.0	3180.0	0.3290823349317941	--
0	EO	Root	590.0	20000.0	0.2872600243161038	--
0	FIBER(DIETARY)	Root		423000.0	0.2683457549147254	--
28	ALPHA-PINENE	Leaf	2.0	6095.0	0.17117059389793504	Father Nature's Farmacy: The aggregate of all these three-letter citations.
9	TERPINOLENE	Leaf Essent. Oil	3100.0	9200.0	0.09987956540879277	--
9	TERPINOLENE	Leaf	7.0	235.0	0.06726575623522042	Father Nature's Farmacy: The aggregate of all these three-letter citations.
31	CARYOPHYLLENE	Leaf	115.0	1300.0	0.05756656381480434	Father Nature's Farmacy: The aggregate of all these three-letter citations.
39	NIACIN	Root	6.0	52.0	0.051041041724226174	--
0	FAT	Root	2714.0	23000.0	0.004007840419506115	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SABINENE	Leaf	3.0	345.0	-0.041395703025686854	Father Nature's Farmacy: The aggregate of all these three-letter citations.
60	SELENIUM	Root	0.5	4.4	-0.04945181208643408	--
5	ALUMINUM	Root	50.0	422.0	-0.0860532203055952	--
9	CAMPHENE	Leaf	0.0	130.0	-0.14355459328033415	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.
7	GLUCOSE	Root		15000.0	-0.18931013947995629	--
24	CHROMIUM	Root	0.2	1.8	-0.20117706529794718	--
15	FIBER	Root		79000.0	-0.20236031507008168	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	BETA-BISABOLENE	Leaf Essent. Oil	6200.0	9000.0	-0.21732019637969832	--
13	ALPHA-TERPINENE	Leaf		15.0	-0.30461131542122966	Father Nature's Farmacy: The aggregate of all these three-letter citations.
67	1,8-CINEOLE	Leaf	85.0	1660.0	-0.31670589111205333	--
2	BETA-MYRCENE	Leaf	2.0	210.0	-0.32305897742328993	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	BETA-CARYOPHYLLENE	Leaf Essent. Oil	2500.0	13600.0	-0.32499336547223034	--
18	OLEIC-ACID	Plant		3000.0	-0.3289098475993685	--
4	SILICON	Root	0.1	0.9	-0.3387704380211594	--
0	PROTEIN	Root	10148.0	86000.0	-0.3639841360982529	--
6	IRON	Root	6.0	48.0	-0.3719192616723782	--
3	BETA-PHELLANDRENE	Leaf		35.0	-0.3807332732105446	Father Nature's Farmacy: The aggregate of all these three-letter citations.
14	POTASSIUM	Root	1215.0	10300.0	-0.4011752971664641	--
1	SODIUM	Root	27.0	230.0	-0.40568103697114866	--
5	SABINENE	Leaf Essent. Oil	1200.0	13600.0	-0.41148866867411177	--
0	ALLO-AROMADENDRENE	Leaf Essent. Oil		9700.0	-0.42565395460505273	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	COBALT	Root	0.6	4.8	-0.4410243796700459	--
31	THIAMIN	Root		1.6	-0.45141259736321837	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
8	FRUCTOSE	Root		9000.0	-0.4564787045656782	--
14	MANGANESE	Root	0.7	5.6	-0.4790041559713029	--
0	1,8-CINEOL	Leaf Essent. Oil	37700.0	65100.0	-0.4818256731898833	--
31	CARYOPHYLENE	Leaf Essent. Oil		51000.0	-0.5095909536194779	--
28	ALPHA-PINENE	Root	1.0	500.0	-0.5389356389673264	Father Nature's Farmacy: The aggregate of all these three-letter citations.
13	BETA-PINENE	Root Essent. Oil		48000.0	-0.542129322911591	--
0	THIAMINE	Root	0.2	1.6	-0.5431066510912689	--
4	PHOSPHORUS	Root	39.0	330.0	-0.560116109548552	--
60	LIMONENE	Leaf Essent. Oil	2300.0	25500.0	-0.5655050351348929	--
1	RAFFINOSE	Root		30000.0	-0.5987994606248946	--
15	RIBOFLAVIN	Root	0.1	1.2	-0.6290718793872899	--
112	ASCORBIC-ACID	Root		0.0	-0.6459735820044326	--
13	ALPHA-TERPINENE	Leaf Essent. Oil		600.0	-0.698535055754104	--
9	CAMPHENE	Leaf Essent. Oil		5000.0	-0.6992473325340675	--
9	CAMPHENE	Root	3.0	65.0	-0.7900657071763403	--
3	BETA-PHELLANDRENE	Leaf Essent. Oil		1400.0	-0.8017042912228218	--
0	ALKALOIDS	Root	500.0	2000.0	-0.8237252063158436	--
0	FIBER(CRUDE)	Root		79000.0	-0.9546329903137257	--
28	ALPHA-PINENE	Root Essent. Oil		25000.0	-0.9573580453647603	--
2	ELEMOL	Leaf Essent. Oil		1400.0	-1.0	--
19	D-LIMONENE	Leaf Essent. Oil		55000.0	-1.0	--
35	GERANIOL	Root	1.0	120.0	-1.0	Father Nature's Farmacy: The aggregate of all these three-letter citations.
13	BETA-IONONE	Leaf Essent. Oil	1800.0	3000.0	-1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	VALEPOTRIATES	Root	1000.0	23600.0	-1.0	--
0	CARBOHYDRATES	Root	88500.0	750000.0	-1.02724083866397	--
2	ELEMOL	Leaf	3.0	36.0	-1.0467417211593815	Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	TRANS-VALERENOL- ACETATE	Root				--
9	DELTA-CADINENE	Root				--
0	VALERIANONE	Root				--
0	ALPHA-ELAEOSTEARIC- ACID	Seed Oil		446000.0		--
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	VALERANAL	Leaf	130.0	2590.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	BORNEOL-ACETATE	Rhizome Essent. Oil				--
0	TRIDECA-12-ENE-2-4-6-8- 10-PENTAYNE	Root				--
3	(-)-BORNEOL	Root Essent. Oil				--
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				--
0	VALENOL	Root				--
0	2-ACETYL-PYRROLE	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	ACETOXYVALERENIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
0	ISOVALERAMIDE	Root				--
0	KESSYL-2-OL-ACETATE	Root				--
0	(-)-MYRTENOL	Leaf	3.0	60.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	MYRTEN-1-OL	Rhizome				--
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.
1	N-VALERALDEHYDE	Leaf	5.0	315.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
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	DIDROVALTRATE	Tissue Culture		40.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-KESSYL-ALCOHOL	Plant				--
0	BETA-METHYL-VALERIC-ACID	Root Essent. Oil				--
0	OXYDASE	Plant				--
6	VALEPOTRIATES	Tissue Culture		103000.0		Medline (post 1990 searches filed in my computer)
0	(+)-BETA-BISABOLENE	Root Essent. Oil				--
7	ISOBORNEOL	Root				Medline (post 1990 searches filed in my computer)
0	(-)-BETA-PINENE	Root Essent. Oil				--
0	TRANS-VALERENOL	Root				--
0	OXYDASE	Root				--
0	BORNYL-ISOVALERIANATE	Root	15.0	300.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
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				--
1	N-VALERALDEHYDE	Leaf Essent. Oil	2200.0	12300.0		--
0	KESSYL-6-OL-ACETATE	Root				--
0	(-)-MYRTENOL	Root				--
0	DELTA-BISABOLENE	Root	8.0	150.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
35	BORNEOL	Root	5.0	460.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	GLUTAMIC-ACID	Root				--
53	BETA-CAROTENE	Plant				--
0	ACETOXYVALTRATE	Rhizome				--
0	CIS-VALERENOL-ISOVALERATE	Root				--
7	ISOBORNEOL	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	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				--
2	MYRTENOL	Root	3.0	85.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
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	N-(2-(4-HYDROXY-PHENYL)-ETHYL)-ACTINIDIUM	Root		300.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
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.
0	KESSYL-6-OL	Root				--
0	(-)-MYRTENOL	Leaf Essent. Oil	1200.0	2400.0		--
22	MYRCENE	Root Essent. Oil				--
9	CAMPHENE	Root Essent. Oil				--
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.
77	ZINC	Root				--
0	BETA-METHYL-GLUCOSIDE	Leaf				--
2	VALTRATE	Plant				--
176	QUERCETIN	Plant				--
0	CIS-VALERENOL-ACETATE	Root				--
0	BORNEOL-ISOVALERIANATE	Root Essent. Oil		15000.0		--
6	VALEPOTRIATES	Rhizome				--
0	VALERIANINE	Root				--
3	AR-CURCUMENE	Root				--
0	ALPHA-FENCHENE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ISOVALERIANIC-ACID	Leaf Essent. Oil		8400.0		--
8	TYROSINE	Root				--
1	HOMOBALDRINAL	Root				--
9	TERPINOLENE	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	KESSANE	Root				J.S. Glasby Dict.Plis 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.Plis Containing 2ndary Metabolite. 1991.
0	N-(2-(4-HYDROXY-PHENYL)-ETHYL)-10-HYDROXY-ACTINIDINIUM	Root		10.0		--
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	HOMOVALTRATE	Root				--
0	KESSYL-2-OL	Root				--
0	(-)-LIMONENE	Root Essent. Oil				--
0	MAALI-ALCOHOL	Rhizome				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
0	ISOEUGENOL-VALERATE	Root Essent. Oil				--
0	BALDRITANNIC-ACID	Root				--
2	VALTRATE	Rhizome				--
0	BORNEOL-ISOVALERATE	Essential Oil				--
0	ANHYDROVALENOL-ISOVALERATE	Rhizome				--
2	VALERENONE	Root				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
3	ALPHA-CURCUMENE	Plant				--
0	VALERIANA-PHENOL	Rhizome				--
0	N-(BETA-(P-HYDROXYPHENYL)-ETHYL)-ACTINIDINE	Plant				--
71	THYMOL	Root	3.0	860.0		--
3	BALDRINAL	Root				--
3	GUAIOL	Root				--
0	(-)-AR-CURCUMENE	Root Essent. Oil				--
3	ISOLEUCINE	Rhizome				--
22	GAMMA-AMINOBTYRIC-ACID	Rhizome				--
0	VALERENAL	Root	30.0	4000.0		--
0	KESSYL-GLYCOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	MYRTENYL-ISOVALERATE	Rhizome				--
0	(+)-ACTINIDINE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
0	CITRONELLOL-ISOVALERATE	Leaf	36.0	460.0		Father Nature's Pharmacy: The aggregate of all these three-letter citations.
2	ELEMOL	Root Essent. Oil				--
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				--
0	(-)-CARYOPHYLLENE	Root Essent. Oil				--
0	BISABOLOL	Root				--
9	CAMPHENE	Essential Oil				--
0	VALTRATE-ISOVALEROXYHYDRIN	Root				--
0	ISOEUGENOL-ISOVALERATE	Root Essent. Oil				--
0	BALDRIANIC-ACID	Root				--
2	VALTRATE	Tissue Culture	380.0	450.0		--
0	BORNEOL-ISOVALERATE	Rhizome Essent. Oil				--
0	VALENOL-ISOVALERATE	Rhizome				--
0	KESSYL-GLYCOL-DIACETATE	Root				--
0	VALERENOLIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	CRYPTOFAURONOL	Root				--
0	ALLO-AROMADENDRENE	Root	0.0	195.0		Father Nature's Pharmacy: The aggregate of all these three-letter citations.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	VALERIADIPYRIDONE	Rhizome				--
0	MYRTENYL-ISOVALERIANATE	Root				--
3	ASPARTIC-ACID	Rhizome				--
23	ALPHA-TERPINEOL	Root Essent. Oil				--
0	(-)-ALPHA-PINENE	Root Essent. Oil				--
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				--
4	ACTINIDINE	Rhizome		1.8		--
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.
28	ALPHA-PINENE	Essential Oil				--
20	CHOLINE	Stem		30000.0		--
1	CATALASE	Root				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	VALTRATE	Root	4000.0	18000.0		--
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	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.
0	CITRONELLOL-ISOVALERATE	Leaf Essent. Oil	15900.0	18000.0		--
1	ACEVALTRATE	Root		120.0		--
0	VALERENONIC-ACID	Root	190.0	1400.0		--
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.
11	GAMMA-TERPINENE	Root Essent. Oil				--
22	GABA	Root				--
0	(-)-ALPHA-FENCHENE	Root Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-SITOSTEROL-STEARATE	Root				--
1	N-BUTYL-VALERATE	Leaf Essent. Oil	4.0	24600.0		--
0	VALERANONE	Leaf Essent. Oil	30400.0	67500.0		--
0	KESSANE	Plant				--
15	MALIC-ACID	Root				--
4	ACTINIDINE	Root		0.5		--
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.
3	ALPHA-CURCUMENE	Root				--
0	ALPHA-KESSYL-ALCOHOL	Root				--
0	7-EPIDEACETYLIISOVALTRATE	Root				--
35	BORNEOL	Root Essent. Oil				--
0	EREMOPHILENE	Plant				--
0	VALEROSIDE-A	Root		440.0		--
0	EUGENOL-ISOVALERATE	Leaf Essent. Oil				--
0	VALEROSIDE-A	Rhizome		440.0		--
0	PEROXIDASE	Plant				--
0	VALERENOL-VALERATE	Root				--
0	GAMMA-VALENE	Rhizome				--
0	ISOVALERIANIC-ACID	Leaf	0.0	215.0		Father Nature's Pharmacy: The aggregate of all these three-letter citations.
0	(-)-BORNEOL-ISOVALERATE	Root Essent. Oil				--
75	KAEMPFEROL	Plant				--
1	CATALASE	Plant				--
4	VALERENIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ACETOXY-VALEPOTRIATUM	Plant				--
2	VALERENONE	Rhizome				--
2	MYRTENOL	Plant				--
8	STEARIC-ACID	Root				--
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	ISOVALTRATE	Root	500.0	6300.0		--
0	ISOBORNEOL-ISOVALERATE	Leaf Essent. Oil	112500.0	478000.0		--
0	VALERANONE	Root	555.0	11120.0		--
78	LUTEOLIN	Root				--
0	HOMOACEVALTRATE	Root		300.0		--
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	GAMMA-VALENE	Root				--
0	PEROXIDASE	Root				--
0	KESSANE	Root Essent. Oil				--
47	BETA-SITOSTEROL	Root				--
0	ISOVALTRATE	Rhizome		5280.0		--
0	VALEROSIDATUM	Root				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	EUGENOL-ISOVALERATE	Root Essent. Oil				--
0	VALEROSIDATE	Root		15000.0		--
0	PATCHOLYL-ALCOHOL	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	ISOVALEROXY-HYDROXY-DIDROVALTRATE	Root	25.0	1000.0		--
0	VALERENAL	Plant				--
16	ACETIC-ACID	Root				--
0	VALERENOLIC-ACID	Root				--
22	MYRCENE	Plant				--
47	BETA-SITOSTEROL	Rhizome				--
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.
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	PENTYL-VALERATE	Leaf Essent. Oil	1800.0	22200.0		--
0	CARVYL-ACETATE	Root				--
31	CARYOPHYLLENE	Rhizome Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	GAMMA-TERPINENE	Root				--
0	ISOVALEROXY-DIHYDROVALTRATE	Rhizome				--
35	BORNEOL	Essential Oil				--
0	DIHYDROVALEPOTRIATUM	Plant				--
0	VALERINE	Root				--
0	EO	Root Essent. Oil		5000.0		--
0	VALERINE	Leaf				--
13	PALMITIC-ACID	Plant				--
0	VALERANONE	Leaf	70.0	1720.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	BORNEOL-ACETATE	Essential Oil				--
0	BETA-VALENE	Rhizome				--
0	ISOBORNYL-ISOVALERATE	Leaf	260.0	12190.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
0	(-)-BORNEOL-ACETATE	Root				--
5	ISOVALERIC-ACID	Root				--
0	CAPRONIC-ACID	Plant		204000.0		--
0	VALEPOTRIATUM	Plant				--
0	CHATININE	Leaf				--
0	8-EPIKESSANOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	VALERENOLIC-ACID	Root Essent. Oil				--
0	PENTYL-VALERATE	Leaf	4.0	565.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
14	ARGININE	Rhizome				--
1	SERINE	Rhizome				--
0	EUDESMOL	Root				--
0	ISOBORNEOL-ACETATE	Leaf Essent. Oil	2600.0	8400.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	VALERANONE	Root Essent. Oil				--
19	D-LIMONENE	Leaf	125.0	1400.0		--
0	1-ALPHA-ACEVALTRATE	Root				--
0	(-)-PACIFIGORGIOL	Essential Oil	7000.0	86000.0		--
0	PATCHOULYL-ALCOHOL	Root				--
37	CARVACROL	Root	10.0	195.0		--
31	CARYOPHYLLENE	Essential Oil				--
20	GAMMA-LINOLENIC-ACID	Plant		62000.0		--
60	LIMONENE	Root				--
6	GUAIAZULENE	Root Essent. Oil				--
3	BETA-PHELLANDRENE	Root				--
0	ISOVALEROXY-HYDROXY-DIHYDROVALTRATE	Root				--
0	SACCHAROSE	Plant		50000.0		--
0	TRANS-VALERENOL-ISOVALERATE	Root				--
0	DIDROVALTRATE	Root	50.0	1000.0		--
9	VALERIC-ACID	Root				--
0	(+)-EREMOPHILENE	Root Essent. Oil				--
0	ALPHA-VALENE	Root				--
0	VALERIDINE	Root				--
0	P-CYMOL	Root				--
0	VALERANINE	Root				--
0	VALECHLORIN	Plant				--
2	ISOBORNYL-ACETATE	Root	55.0	3030.0		--
3	(-)-BORNEOL	Root				--
0	ISOVALERIANIC-ACID	Root		200000.0		--
1	ACEVALTRATE	Tissue Culture	100.0	120.0		--
0	CHATININE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	7-EPIDEACETYLIISOVALTRATE	Plant				--
0	ACETOXYVALERENOIC-ACID	Root	10.0	1680.0		--
0	PACIFIGORGIOL	Leaf	16.0	2195.0		Father Nature's Farmacy: The aggregate of all these three-letter citations.
7	PHENYLALANINE	Rhizome				--
0	ERGNOPHYLINE	Root				--
60	LIMONENE	Root Essent. Oil				--
0	ISOBORNEOL-ACETATE	Root Essent. Oil				--
0	VALERANAL	Leaf Essent. Oil	56000.0	101500.0		--
1	ACEVALTRATE	Plant				--
0	(-)-MYRTENOL-ISOVALERATE	Root				--
0	MYRTEN-1-OL-ISOVALERATE	Rhizome				--
0	GAMMA-CADINENE	Root				--
5	GLUTAMINE	Rhizome				--
13	BETA-IONONE	Root				--
5	DIHYDROVALTRATE	Root				--