

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Glechoma hederacea*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	(+)-PULEGONE	Plant	--	--		
0	(-)-PINOCARVONE	Plant	--	--		
0	(10E,12Z)-9-OXO-10,12-OCTADECADIENOIC-ACID	Leaf	--	--		
0	(10E,12Z,15Z)-9-OXO-10,12,15-OCTADECATRIENOIC-ACID	Leaf	--	--		
0	(9S,10E,12Z)-9-HYDROXY-10,12-OCTADECADIENOIC-ACID	Leaf	--	--		
0	(9S,10E,12Z,15Z)-9-HYDROXY-10,12,15-OCTADECATRIENOIC-ACID	Leaf	--	--		
67	1,8-CINEOLE	Plant	6	37	-0.5512773271900201	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	1-OCTEN-3-OL	Plant	1	7	-0.43117484485288077	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	1-OCTEN-3-YL-ACETATE	Plant	1	2	-1.1641445076652783	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	2-ALPHA-HYDROXYURSOLIC-ACID	Plant	--	20		
1	2-BETA-HYDROXYURSOLIC-ACID	Plant	--	600		
2	3-OCTANOL	Plant	1	2	-0.6488601051507596	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3-OCTANONE	Plant	3	16	-0.6358643020968509	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	9-HYDROXY-10-TRANS,12-CIS-OCTADECADIENOIC-ACID	Plant	--	--		
10	ALPHA-AMYRIN	Plant	--	--		
3	ALPHA-CADINOL	Plant	1	6	-0.9281735937749103	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
28	ALPHA-PINENE	Plant	4	22	-0.4659063062508129	
23	ALPHA-TERPINEOL	Plant	1	7	-0.4750331426952505	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-URSOLIC-ACID	Plant	--	--		
101	APIGENIN	Plant	--	--		Jim Duke's personal files.
0	APIGENIN-7-GLUCOSIDE	Plant	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
2	ARSENIC	Plant	--	--		Chem. & Pharm. Bull. 38: 2205.
1	ASIATIC-ACID	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ASPARAGIC-ACID	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	ASPARTIC-ACID	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	BARIUM	Plant	45	89	1.697811769953888	Chem. & Pharm. Bull. 38: 2205.
9	BETA-AMYRIN	Plant	--	--		
0	BETA-BOURBONENE	Plant	1	6	-0.4787226141963027	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	BETA-ELEMENE	Plant	9	53	-0.2795003889825756	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	BETA-PINENE	Plant	3	17	-0.417131127819555	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
47	BETA-SITOSTEROL	Plant	--	--		Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
0	BETA-URSOLIC-ACID	Plant	--	--		
35	BORNEOL	Plant	1	5	-0.6664178309874592	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
12	BORNYL-ACETATE	Plant	1	4	-0.4664432496568186	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BROMINE	Plant	18	19	-0.5039992624483747	Chem. & Pharm. Bull. 38: 2205.
0	BULGARENE	Plant	--	--		
102	CAFFEIC-ACID	Plant	--	--		
28	CALCIUM	Plant	21000	23000	1.0066208154808067	Chem. & Pharm. Bull. 38: 2205.
9	CAMPHENE	Plant	1	3	-0.6006926315197634	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
7	CHLORINE	Plant	8000	11000	1.0564720140341104	Chem. & Pharm. Bull. 38: 2205.
77	CHLOROGENIC-ACID	Plant	--	--		Vademecum Garcia, A.A., et al. 1998. Fitoterapia Vademecum de Prescripcioon. Masson, S. A. Barcelona, Espana. 1148 pp.
20	CHOLINE	Plant	--	--		
24	CHROMIUM	Plant	3	4	-0.49021456139793756	Chem. & Pharm. Bull. 38: 2205.
3	CIS-OCIMENE	Plant	9	55	-0.3228572549798686	
12	COPPER	Plant	11	11	-0.33406963620245544	Chem. & Pharm. Bull. 38: 2205.
4	COSMOSIIN	Plant	--	--		
0	CYMAROSIDE	Plant	--	--		
3	CYNAROSIDE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DITERPENE-LACTONE	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.
2	ELEMOL	Plant	1	3	-0.6215774055927659	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EO	Plant	100	600	-0.6945296531004636	
0	EPSILON-BULGARENE	Plant	2	11		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EPSILON-MUUROLENE	Plant	1	6		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
61	FERULIC-ACID	Plant	--	--		
0	GAMMA-ELEMENE	Plant	1	7	-0.3941752823621468	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	GERMACRENE-B	Plant	14	83		
2	GERMACRENE-D	Plant	20	116	-0.32380258707502446	
0	GLECHOMAFURAN	Plant	--	--		
0	GLECHOMANOLIDE	Plant	--	--		
0	GLECHOMINE	Plant	--	--		Jim Duke's personal files.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	GLUTAMIC-ACID	Plant	--	--		Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
30	HYPEROSIDE	Plant	--	--		
12	IODINE	Plant	--	--		Chem. & Pharm. Bull. 38: 2205.
6	IRON	Plant	290	500	-0.14948506775500356	Chem. & Pharm. Bull. 38: 2205.
0	ISOFURANOGERMACRENE	Plant	1	1		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	ISOMENTHONE	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
4	ISOPINOCAMPHONE	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	ISOQUERCITIN	Plant	--	--		
22	ISOQUERCITRIN	Plant	--	--		
0	L-MENTHONE	Plant	--	--		
0	L-PINOCAMPHONE	Plant	--	--		
1	L-PULEGONE	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	LEAD	Plant	--	--		Chem. & Pharm. Bull. 38: 2205.
60	LIMONENE	Plant	1	6	-0.4821163747169735	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LINALOL	Plant	1	4	-0.4313107276638502	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
78	LUTEOLIN	Plant	--	--		Jim Duke's personal files.
0	LUTEOLIN-7-DI-O-BETA-D-GLUCOSIDE	Plant	--	--		
7	LUTEOLIN-7-GLUCOSIDE	Plant	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
14	MANGANESE	Plant	82	100	0.021813677839542838	Chem. & Pharm. Bull. 38: 2205.
8	MARRUBIIN	Plant	--	--		
63	MENTHOL	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
2	MOLYBDENUM	Plant	--	--		Chem. & Pharm. Bull. 38: 2205.
22	MYRCENE	Plant	3	20	-0.4541295384448474	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	MYRTENAL	Plant	1	1	-1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	NICKEL	Plant	--	--		Chem. & Pharm. Bull. 38: 2205.
2	NONACOSANE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
64	OLEANOLIC-ACID	Plant	--	360	-1.0986728439772253	
25	P-COUMARIC-ACID	Plant	--	--		
16	P-CYMENE	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
13	PALMITIC-ACID	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
4	PHOSPHORUS	Plant	2100	3500	-0.04260284020040307	Chem. & Pharm. Bull. 38: 2205.
14	POTASSIUM	Plant	32000	46000	1.687880009035257	Chem. & Pharm. Bull. 38: 2205.
0	POTASSIUM-NITRATE	Plant	--	--		Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
0	PROLINE	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	RESIN	Plant	--	--		Jim Duke's personal files.
57	ROSMARINIC-ACID	Leaf	14800	25000	2.329304484727468	
57	ROSMARINIC-ACID	Stem	--	1000	-0.3808773454382602	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	RUBIDIUM	Plant	10	11	-1.0756540025325014	Chem. & Pharm. Bull. 38: 2205.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
87	RUTIN	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	SABINENE	Plant	1	9	-0.4476544142890202	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	SALIGENIN	Plant	--	--		
0	SAPONIN	Plant	--	--		Jim Duke's personal files.
0	SAPONOSIDES	Plant	--	--		Vademecum Garcia, A.A., et al. 1998. Fitoterapia Vademecum de Prescripcioon. Masson, S. A. Barcelona, Espana. 1148 pp.
9	SINAPIC-ACID	Plant	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	STRONTIUM	Plant	51	110	-0.27669640886357	Chem. & Pharm. Bull. 38: 2205.
7	SUCCINIC-ACID	Plant	--	--		Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
14	SULFUR	Plant	3100	3400	-0.19502943224091188	Chem. & Pharm. Bull. 38: 2205.
35	TANNIN	Plant	30000	70000	-0.1990770770371384	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	TERPINEN-4-OL	Plant	1	8	-0.2780031828594647	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TITANIUM	Plant	24	50	-1.0186421933880052	Chem. & Pharm. Bull. 38: 2205.
8	TYROSINE	Plant	--	--		Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
89	URSOLIC-ACID	Plant	166	166	-0.787639221105655	Chemical Constituents of Oriental Herbs (3 diff. books)
3	VALINE	Plant	--	--		Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
77	ZINC	Plant	46	53	0.00844512955464756	Chem. & Pharm. Bull. 38: 2205.