

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Gentiana lutea*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	1,3,7-TRIMETHOXYXANTHONE	Root				--
0	1-HYDROXY-3,7-DIMETHOXYXANTHONE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	1-O-PRIMVEROSYL-7-OXY-3-METHOXYXANTHONE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2,3,4,6-TETRAHYDROXYBENZOPHENONE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	7-O-PRIMVEROSYL-1-OXY-3-METHOXYXANTHONE	Root				Abstract (See species file)
23	ALPHA-TERPINEOL	Essential Oil				Abstract (See species file)
5	ALUMINUM	Root	64.0	291.0	-0.15634216717940302	--
6	AMAROGENTIN	Root	100.0	3300.0		--
112	ASCORBIC-ACID	Root	40.0	183.0	-0.5413626409176785	--
0	ASH	Root	18040.0	82000.0	0.41237577047078894	--
9	BETA-AMYRIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
53	BETA-CAROTENE	Root	9.0	39.0	-0.18704689349928313	--
102	CAFFEIC-ACID	Root				--
28	CALCIUM	Root	1791.0	8140.0	0.0807362259091836	--
37	CARVACROL	Essential Oil				Abstract (See species file)
24	CHROMIUM	Root	0.3	1.3	-0.30083292134545053	--
0	CIS-LINALYL-OXIDE	Plant				--
2	COBALT	Root	0.3	1.4	-0.5148215616573423	--
0	FAT	Root	2860.0	13000.0	-0.3294780368795451	--
0	FAT	Seed		260000.0	-0.028378370202724528	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FIBER(CRUDE)	Root		120000.0	0.2580364813561677	--
0	FIBER(DIETARY)	Root		420000.0	0.23558261041932288	--
0	GENTIALUTINE	Root				--
0	GENTIAMARIN	Root				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
24	GENTIANINE	Root	6000.0	8000.0	1.0	--
0	GENTIANOSE	Root				--
0	GENTIIN	Root				--
0	GENTIOBIOSE	Root	50000.0	80000.0		--
0	GENTIODISE	Root				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	GENTIOFLAVOSIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	GENTIOPICRIN	Root	11400.0	35000.0		--
4	GENTIOPICROSIDE	Root	11400.0	35000.0		--
0	GENTIOSIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	GENTISEIN	Root				--
8	GENTISIC-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.
2	GENTISIN	Root		380.0		--
19	INULIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	IRON	Root	8.0	37.0	-0.38789995702739277	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ISOGENTISIN	Root		380.0		--
60	LIMONENE	Essential Oil		346800.0	1.2590716018100643	Abstract (See species file)
0	LINALOL	Essential Oil				--
53	LINALOOL	Essential Oil				Abstract (See species file)
21	LUPEOL	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
65	MAGNESIUM	Root	603.0	2740.0	0.09495627526651279	--
14	MANGANESE	Root	0.5	2.3	-0.5184092277453715	--
18	MANGIFERIN	Plant				Abstract (See species file)
39	NIACIN	Root	13.0	61.0	0.31188169659251	--
11	NICOTINIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	NICOTINIC-ACID-AMIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OXYCINNAMIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	PECTIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	PHOSPHORUS	Root	594.0	2700.0	-0.14368503617776215	--
2	PHYTOSTEROLS	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
14	POTASSIUM	Root	1929.0	8770.0	-0.5132071461769279	--
0	PROTEIN	Seed		310000.0	0.6778734437162001	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

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0	PROTEIN	Root	30360.0	138000.0	0.21995042993271519	--
43	PROTOCATECHUIC-ACID	Root				--
15	RIBOFLAVIN	Root	0.5	2.1	-0.4321138905848174	--
0	SACCHAROSE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	SECO-IRIDOIDS	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
60	SELENIUM	Root	0.4	1.8	-0.2344070430977907	--
4	SILICON	Root				--
9	SINAPIC-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	SODIUM	Root	9.0	41.0	-0.49368227192150566	--
5	STARCH	Root	35200.0	160000.0	-0.6514767798388345	--
14	SUCROSE	Root				--
0	SUGARS	Root	22000.0	100000.0	-0.03757564189391796	--
9	SWEROSIDE	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
4	SWERTIAMARIN	Root				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
6	SYRINGIC-ACID	Root				--
35	TANNIN	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.

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31	THIAMIN	Root		4.8	-0.1667482173069163	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	THIAMINE	Root	2.0	7.8	0.717646386075359	--
4	TIN	Root	9.0	40.0	2.3901698461602563	--
0	WATER	Root		780000.0	0.07039472351276986	--
77	ZINC	Root	0.6	2.9	-0.9319328403212439	--