

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Inula helenium*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SODIUM	Root	128.0	580.0	-0.24271578706308006	--
1	CARABRONE	Plant				--
1	CARABRONE	Shoot	34.0	40.0		--
1	2-ALPHA-HYDROXYALANTOLACTONE	Shoot		56.0		--
2	MOLYBDENUM	Plant				--
2	COBALT	Root	0.4	1.8	-0.5061395402470722	--
2	DIHYDROISOALANTOLACTONE	Plant				--
2	DIHYDROISOALANTOLACTONE	Rhizome				--
2	DIHYDROISOALANTOLACTONE	Root				--
2	CAMPESTEROL	Root				--
2	GERMACRENE-D	Root				Abstract (See species file)
2	FRIEDELIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	FRIEDELIN	Root Essent. Oil				--
2	DIHYDROISOALANTOLACTONE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	MUCILAGE	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.
3	NICKEL	Plant				--
3	DAMMARADIENOL	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	SILICON	Root				--
4	PHOSPHORUS	Root	330.0	1500.0	-0.3545362125680356	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	3-METHYLQUERCETIN	Inflorescence				--
4	PHOSPHORUS	Plant				--
5	HELENIN	Plant				--
5	HELENIN	Root		15600.0		--
5	ALUMINUM	Plant				--
6	IRON	Root	0.9	4.0	-0.43584204309243646	--
6	IRON	Plant				--
8	INOSITOL	Leaf				--
9	COSTUNOLIDE	Shoot		20.0	1.0	--
10	AZULENE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
12	COPPER	Plant				--
12	STIGMASTEROL	Root				--
13	ISOALANTOLACTONE	Rhizome	9900.0	19400.0		--
13	ISOALANTOLACTONE	Essential Oil				--
13	ISOALANTOLACTONE	Root	1305.0	5215.0		--
13	ISOALANTOLACTONE	Plant				--
13	ISOALANTOLACTONE	Shoot		13.0		--
13	ISOALANTOLACTONE	Root Essent. Oil				--
14	MANGANESE	Plant				--
14	POTASSIUM	Root	2222.0	10100.0	-0.41581998331162273	--
14	MANGANESE	Root	0.2	0.8	-0.5363206240063116	--
15	RIBOFLAVIN	Root	0.7	3.2	-0.19138745982624014	--
19	INULIN	Root	99000.0	450000.0	0.7427321953048467	--
22	UMBELLIFERONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
22	UMBELLIFERONE	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	CHROMIUM	Root	0.2	1.0	-0.3606264349739525	--
28	CALCIUM	Root	2200.0	10000.0	0.28443978784453666	--
34	HELENALIN	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.
36	ALANTOLACTONE	Root	435.0	1740.0		--
36	ALANTOLACTONE	Root Essent. Oil				--
36	ALANTOLACTONE	Rhizome	5000.0	15100.0		--
36	ALANTOLACTONE	Plant				--
39	NIACIN	Root	15.0	70.0	0.5727223514607939	--
44	SCOPOLETIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
44	SCOPOLETIN	Shoot				--
47	BETA-SITOSTEROL	Root				--
53	BETA-CAROTENE	Root				--
60	SELENIUM	Root				--
65	MAGNESIUM	Root	1650.0	7500.0	2.627774557100011	--
77	ZINC	Root	1.0	3.9	-0.888135144785512	--
77	ZINC	Plant				--
112	ASCORBIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
112	ASCORBIC-ACID	Root	4.4	20.0	-0.6345406922681753	--
176	QUERCETIN	Inflorescence				--