

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Inula helenium

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Root	1.0	3.9	-0.888135144785512	--
77	ZINC	Plant				--
22	UMBELLIFERONE	Shoot				--
22	UMBELLIFERONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
12	STIGMASTEROL	Root				--
1	SODIUM	Root	128.0	580.0	-0.24271578706308006	--
4	SILICON	Root				--
60	SELENIUM	Root				--
44	SCOPOLETIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
44	SCOPOLETIN	Shoot				--
15	RIBOFLAVIN	Root	0.7	3.2	-0.19138745982624014	--
176	QUERCETIN	Inflorescence				--
14	POTASSIUM	Root	2222.0	10100.0	-0.41581998331162273	--
4	PHOSPHORUS	Root	330.0	1500.0	-0.3545362125680356	--
4	PHOSPHORUS	Plant				--
3	NICKEL	Plant				--
39	NIACIN	Root	15.0	70.0	0.5727223514607939	--
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.
2	MOLYBDENUM	Plant				--
14	MANGANESE	Plant				--
14	MANGANESE	Root	0.2	0.8	-0.5363206240063116	--
65	MAGNESIUM	Root	1650.0	7500.0	2.627774557100011	--
13	ISOALANTOLACTONE	Root	1305.0	5215.0		--
13	ISOALANTOLACTONE	Shoot		13.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	ISOALANTOLACTONE	Plant				--
13	ISOALANTOLACTONE	Root Essent. Oil				--
13	ISOALANTOLACTONE	Rhizome	9900.0	19400.0		--
13	ISOALANTOLACTONE	Essential Oil				--
6	IRON	Plant				--
6	IRON	Root	0.9	4.0	-0.43584204309243646	--
19	INULIN	Root	99000.0	450000.0	0.7427321953048467	--
8	INOSITOL	Leaf				--
5	HELENIN	Plant				--
5	HELENIN	Root		15600.0		--
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.
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	DIHYDROISOALANTOLACT ONE	Plant				--
2	DIHYDROISOALANTOLACT ONE	Rhizome				--
2	DIHYDROISOALANTOLACT ONE	Root				--
2	DIHYDROISOALANTOLACT ONE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	DAMMARADIENOL	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	COSTUNOLIDE	Shoot		20.0	1.0	--
12	COPPER	Plant				--
2	COBALT	Root	0.4	1.8	-0.5061395402470722	--
24	CHROMIUM	Root	0.2	1.0	-0.3606264349739525	--
1	CARABRONE	Plant				--
1	CARABRONE	Shoot	34.0	40.0		--
2	CAMPESTEROL	Root				--
28	CALCIUM	Root	2200.0	10000.0	0.28443978784453666	--
47	BETA-SITOSTEROL	Root				--
53	BETA-CAROTENE	Root				--
10	AZULENE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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	--
5	ALUMINUM	Plant				--
36	ALANTOLACTONE	Root	435.0	1740.0		--
36	ALANTOLACTONE	Root Essent. Oil				--
36	ALANTOLACTONE	Rhizome	5000.0	15100.0		--
36	ALANTOLACTONE	Plant				--
4	3-METHYLQUERCETIN	Inflorescence				--
1	2-ALPHA-HYDROXYALANTOLACTONE	Shoot		56.0		--