

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Hydrangea arborescens*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Root				--
22	UMBELLIFERONE	Shoot				Plouvier, V. 1987. Occurrence and distribution of syringoside, skimmin and similar coumarin glycosides and loganin in several botanical groups. C. R. Acad. Sci. Ser. III, 305(6): 183-186.
4	TIN	Root	4.0	11.0	-0.5576712458191766	--
5	STARCH	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	SODIUM	Root				--
4	SILICON	Root	8.0	22.3	-0.24046542681013774	--
60	SELENIUM	Root	0.6	1.6	-0.24863436856020282	--
87	RUTIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	RIBOFLAVIN	Root				--
176	QUERCETIN	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.
14	POTASSIUM	Root	9034.0	25810.0	0.73452011339059	--
4	PHOSPHORUS	Root	2450.0	7000.0	0.6118650125540502	--
39	NIACIN	Root	44.0	125.0	2.1667485756558618	--
14	MANGANESE	Root	7.0	18.7	-0.3225779619590914	--
65	MAGNESIUM	Root	567.0	1620.0	-0.5010009675178397	--
4	LOGANIN	Shoot				Plouvier, V. 1987. Occurrence and distribution of syringoside, skimmin and similar coumarin glycosides and loganin in several botanical groups. C. R. Acad. Sci. Ser. III, 305(6): 183-186.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
75	KAEMPFEROL	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.
6	IRON	Root	6.0	18.0	-0.41550297627696336	--
2	COBALT	Root	1.3	3.8	-0.4627294331957213	--
24	CHROMIUM	Root	0.9	2.5	-0.06165886683144246	--
28	CALCIUM	Root	2261.0	6460.0	-0.10325408809694175	--
53	BETA-CAROTENE	Root				--
112	ASCORBIC-ACID	Root				--
5	ALUMINUM	Root	77.0	221.0	-0.1939011464249492	--