

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Frangula purshiana*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	ALOE-EMODIN	Bark				--
24	ALOE-EMODIN	Tissue Culture				--
12	ALOIN	Plant				--
5	ALUMINIUM	Bark	27.0	99.0	-0.42073897270651045	--
6	ANTHRAQUINONES	Bark	60000.0	100000.0	1.0	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
112	ASCORBIC-ACID	Bark		0.0	-1.0104899665727316	--
6	BARBALOIN	Bark				--
53	BETA-CAROTENE	Bark	13.0	46.0	2.1374028017190314	--
28	CALCIUM	Bark	4100.0	14800.0	-0.3701186348289897	--
1	CASANTHRANOL	Bark				--
1	CASCAROSIDE-A	Bark				--
24	CHROMIUM	Bark	0.2	0.6	-0.5240392018021011	--
6	CHRYSOPHANIC-ACID	Plant				--
6	CHRYSOPHANIC-ACID	Tissue Culture				--
6	CHRYSOPHANIC-ACID	Bark				--
2	CHRYSOPHANIC-ACID-9-ANTHRONE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
10	CHRYSOPHANOL	Bark				--
2	COBALT	Bark	3.2	11.6	-0.18574693845267193	--
58	EMODIN	Tissue Culture				--
58	EMODIN	Bark				--
58	EMODIN	Bl				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
58	EMODIN	Plant				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.
15	FIBER	Bark		310000.0	1.49734444643886513	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	FRANGULAEMODIN	Bark				--
1	FRANGULIN	Bark				--
6	IRON	Bark	6.4	23.0	-0.8041825931162928	--
27	LINOLEIC-ACID	Plant				--
65	MAGNESIUM	Bark	440.0	1590.0	-0.10911131301072557	--
15	MALIC-ACID	Plant				--
14	MANGANESE	Bark	0.4	1.4	-0.6672097230657966	--
6	MYRISTIC-ACID	Plant				--
39	NIACIN	Bark	8.0	29.0	-0.5491524863663554	--
4	PHOSPHORUS	Bark	158.0	570.0	-0.5349997224798418	--
5	PHYSCION	Tissue Culture				--
5	PHYSCION	Bark				--
14	POTASSIUM	Bark	1103.0	3980.0	-0.43722012313816594	--
15	RIBOFLAVIN	Bark		0.0	-1.033653783963848	--
60	SELENIUM	Bark	0.3	1.1	-0.4642594780283318	--
4	SILICON	Bark				--
1	SODIUM	Bark	26.0	93.0	-0.408100271312514	--
6	SYRINGIC-ACID	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.
41	TANNIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
35	TANNIN	Plant				--
31	THIAMIN	Bark		0.0	-0.6585046078685182	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	TIN	Bark	1.4	5.1	-0.9625249451887514	--
77	ZINC	Bark				--