

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Pinus echinata*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
5	ALUMINUM	Shoot	255.0	4200.0	-0.6104836008750758	--
0	ASH	Shoot	17000.0	42000.0	-1.4026764284650826	--
0	BARIUM	Shoot	5.0	21.0	-1.0994577997501176	--
4	BORON	Shoot	2.0	21.0	-1.4434363723869053	--
3	CADMIUM	Shoot	0.0	2.0	0.4407507094940382	--
28	CALCIUM	Shoot	1088.0	11760.0	-0.21751333892681143	--
24	CHROMIUM	Shoot	0.08	1.26	-0.7819642589980401	--
2	COBALT	Shoot	0.03	1.26	-0.7558508662841124	--
12	COPPER	Shoot	0.8	2.1	-1.4250069598599244	--
0	FLUORINE	Shoot	0.0	0.42	1.115670599448119	--
12	IODINE	Shoot	4.0	6.0	-0.24253562503633302	--
6	IRON	Shoot	34.0	630.0	0.1753784133396819	--
0	LEAD	Shoot	1.7	63.0	-0.31440853841495364	--
11	LITHIUM	Shoot	0.068	0.42	-0.771649429705837	--
65	MAGNESIUM	Shoot	255.0	2100.0	-0.7463296175015178	--
14	MANGANESE	Shoot	51.0	1260.0	-0.056608461812380634	--
1	MERCURY	Shoot	0.0	0.025	0.7071067811865476	--
3	NICKEL	Shoot	0.26	8.4	-0.6922460081663592	--
4	PHOSPHORUS	Shoot	306.0	1512.0	-0.850895262688186	--
14	POTASSIUM	Shoot	952.0	8400.0	-1.0850288843778588	--
60	SELENIUM	Shoot	0.02	0.2	1.3772000664015358	--
3	SILVER	Shoot	0.0	0.126	-0.6972481888351578	--
1	SODIUM	Shoot	3.0	63.0	-1.604566991689064	--
0	STRONTIUM	Shoot	3.0	84.0	-1.204509974500173	--
0	TITANIUM	Shoot	3.0	84.0	-0.5644946239746539	--
16	VANADIUM	Shoot	0.08	1.26	-0.7956181074800722	--
0	YTTERBIUM	Shoot	0.03	0.13	-1.396518836852315	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
77	ZINC	Shoot	6.0	88.0	-0.59894448594495	--
0	ZIRCONIUM	Shoot	0.3	6.3	0.4710278491201841	--