

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Serenoa repens*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Fruit	0.7	5.2	-0.7552020844764787	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
3	XYLOSE	Fruit				--
0	WATER	Fruit		870000.0	0.43230600391521135	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
28	VANILLIN	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	VANILLIC-ACID	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	URONIC-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.
0	UNDECANOIC-ACID	Fruit				--
2	TRIDECANOIC-ACID	Fruit				--
0	TRICONTANOL	Fruit	13.0	42.0		--
1	TRIACONTAN-1-OL	Fruit				--
0	THIAMINE	Fruit	0.7	5.0	0.7348687812439542	--
31	THIAMIN	Fruit	0.6	5.0	-0.0425885992841977	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	TETRACOSANOL	Fruit	1.6	5.0		--
35	TANNIN	Stem		54800.0	-0.5063597006118161	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
35	TANNIN	Root		75800.0	-0.020511406931147124	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
6	SYRINGIC-ACID	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	SYRINGALDEHYDE	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	SUGARS	Fruit	13000.0	100000.0	-0.4714231435724017	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
12	STIGMASTEROL	Fruit	12.0	38.0	-0.6454844173695994	--
0	STEROLS	Mesocarp				--
0	STEROLS	Exocarp				--
8	STEARIC-ACID	Seed				--
8	STEARIC-ACID	Fruit	720.0	2305.0	-0.12635840819349412	--
0	SPHINGOLIPIDES	Fruit				--
11	SORBITOL	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	SODIUM	Fruit	65.0	495.0	-0.1370104923804784	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	SILICON	Fruit	1.0	7.8	-0.5831009322457926	--
0	SERENOA-POLYPRENOL-3	Fruit		35.0		--
0	SERENOA-POLYPRENOL-2	Fruit		5.0		--
60	SELENIUM	Fruit	0.3	2.6	0.2585513872614546	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	SABAL-SERRULATA-ACIDIC-POLYSACCHARIDE	Fruit		6000.0		--
87	RUTIN	Fruit				--
15	RIBOFLAVIN	Fruit	1.0	7.3	0.4905916673393905	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	RHOIFOLIN	Fruit				--
2	RHOIFOLIN	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
0	RHAMNOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	PROTEIN	Fruit	14300.0	110000.0	0.006722289355626528	--
14	POTASSIUM	Fruit	2325.0	17900.0	-0.00146044676900111	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	POPULNIN	Fruit				--
0	POLYSACCHARIDE-S4	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	POLYSACCHARIDE-S3	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	POLYSACCHARIDE-S2	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	POLYSACCHARIDE-S1	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
2	PHYTOSTEROLS	Fruit		128.0	-1.0530092799127762	--
1	PHYTOL	Fruit				--
4	PHOSPHORUS	Fruit	2105.0	16200.0	3.94375903676458	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	PECTIN	Fruit	605.0	4640.0	-0.5751588917297177	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
13	PALMITIC-ACID	Fruit	3800.0	87000.0	0.9888703977409701	--
13	PALMITIC-ACID	Seed				--
0	P-OXYBENZOIC-ACID	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	P-OXYBENZALDEHYDE	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	P-HYDROXYBENZALDEHYDE	Plant				--
13	P-HYDROXY-BENZOIC-ACID	Plant				--
25	P-COUMARIC-ACID	Fruit Juice				--
18	OLEIC-ACID	Seed				--
18	OLEIC-ACID	Fruit	11400.0	332000.0	2.0780900532057363	--
0	OCTACOSAN-1-OL	Fruit				--
39	NIACIN	Fruit	10.0	75.0	0.19119140633704487	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	MYRISTIC-ACID	Seed				--
6	MYRISTIC-ACID	Fruit	4800.0	116000.0	5.20324818328259	--
3	MANNNOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
18	MANNITOL	Seed Oil				--
18	MANNITOL	Fruit				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
14	MANGANESE	Fruit	1.2	8.9	-0.3448520509579119	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
65	MAGNESIUM	Fruit	510.0	3930.0	0.8336264369951842	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
21	LUPEOL	Fruit				--
0	LUPEN-3-ONE	Fruit				--
0	LIPASE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LINOLENIC-ACID	Fruit	240.0	770.0	-0.8207413427736995	--
27	LINOLEIC-ACID	Fruit	1840.0	36000.0	0.15250551841720983	--
7	LAURIC-ACID	Fruit	12080.0	240000.0	2.5127886336588405	--
7	LAURIC-ACID	Seed				--
4	KAEMPFEROL-3-O-GLUCOSIDE	Fruit				--
75	KAEMPFEROL	Fruit				By assumption; if a glycoside is reported, it is automatically assumed that the aglycone is present also in the plant, though sometimes in traces only.
22	ISOQUERCITRIN	Fruit				--
6	IRON	Fruit	9.0	66.0	-0.26568397107756236	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	HEXACOSANOL	Fruit	2.0	7.0		--
0	HEXACOSAN-1-OL	Fruit				--
8	GLYCEROL	Seed Oil				--
4	GLUCURONIC-ACID	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	GLUCOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
11	GERANYL-GERANIOL	Fruit		16.0		--
1	GALACTOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	FUCOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
8	FRUCTOSE	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FIBER(DIETARY)	Fruit		400000.0	0.3503027017814249	--
0	FIBER(CRUDE)	Fruit		130000.0	-0.1382131172135812	--
61	FERULIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FATTY-ACIDS	Fruit	30000.0	92000.0		--
0	FAT	Fruit	3510.0	27000.0	-0.435028261598363	--
17	FARNESOL	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	EO	Fruit	5400.0	20000.0	-0.4312216686487416	--
3	DECANOIC-ACID	Fruit				--
5	DAUCOSTEROL	Fruit	47.0	416.0		--
7	CYCLOARTENOL	Fruit				--
2	COBALT	Fruit	0.6	5.0	0.07018107914482831	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	CHROMIUM	Fruit	0.2	1.4	-0.3109918416443979	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	CERAMIDES	Fruit				--
0	CAROTENE	Seed Oil				--
5	CAPRYLIC-ACID	Fruit	920.0	13000.0		--
5	CAPRYLIC-ACID	Seed Oil				--
1	CAPROIC-ACID	Fruit	600.0	1920.0		--
1	CAPROIC-ACID	Seed Oil				--
0	CAPRINIC-ACID	Fruit		18000.0		--
3	CAPRIC-ACID	Fruit	1000.0	3200.0	1.413939973823674	--
3	CAPRIC-ACID	Seed Oil				--
2	CAMPESTEROL	Fruit	28.0	90.0	0.10490824541035179	--
28	CALCIUM	Fruit	605.0	4640.0	0.18085004106340866	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	BETA-SITOSTEROL-D-GLUCOSIDE	Fruit		220.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BETA-SITOSTEROL-3-O-MYRISTYL-BETA-GLUCOSIDES	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
0	BETA-SITOSTEROL-3-O-MYRISTATE	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
0	BETA-SITOSTEROL-3-O-DIGLUCOSIDE	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
47	BETA-SITOSTEROL	Fruit	33.0	281.0	-0.42504048544050566	--
53	BETA-CAROTENE	Fruit	3.0	24.0	-0.1044090615440342	--
0	ASH	Fruit	3770.0	29000.0	-0.7163626815965894	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
112	ASCORBIC-ACID	Fruit	11.0	88.0	-0.27901743011351393	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ARABINOSE	Fruit				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.
0	APIGENIN-7-O-RHAMNOGLUCOSIDE	Fruit				--
101	APIGENIN	Fruit				By assumption; if a glycoside is reported, it is automatically assumed that the aglycone is present also in the plant, though sometimes in traces only.
6	ANTHRANILIC-ACID	Fruit				--
0	ACETOVANILLONE	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ACETOSYRINGONE	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	3,7,11,15,19,23,31,35-NONAMETHYL-HEXATRIACONTA-2-CIS-6-CIS-10-CIS-14-CIS-18-CIS-22-TRANS-26-TRANS-30-TRANS-3,4-TRANS-NON	Fruit		19.0		--
0	3,7,11,15,19,23,27,31-OCTAMETHYL-DOTRIACONTA-2-CIS-6-CIS-10-CIS-14-CIS-18-TRANS-22-TRANS-26-TRANS-OCTAEN-1-OL	Fruit		270.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	24-METHYLENE-CYCLOARTENOL	Fruit				--
0	1-OCTACOSANOL	Fruit	58.0	187.0		--
6	1-MONOMYRISTIN	Fruit				--
6	1-MONOLAURIN	Fruit				--