

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Serenoa repens*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FATTY-ACIDS	Fruit	30000.0	92000.0		--
0	PROTEIN	Fruit	14300.0	110000.0	0.006722289355626528	--
0	SUGARS	Fruit	13000.0	100000.0	-0.4714231435724017	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
7	LAURIC-ACID	Fruit	12080.0	240000.0	2.5127886336588405	--
18	OLEIC-ACID	Fruit	11400.0	332000.0	2.0780900532057363	--
0	EO	Fruit	5400.0	20000.0	-0.4312216686487416	--
6	MYRISTIC-ACID	Fruit	4800.0	116000.0	5.20324818328259	--
13	PALMITIC-ACID	Fruit	3800.0	87000.0	0.9888703977409701	--
0	ASH	Fruit	3770.0	29000.0	-0.7163626815965894	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FAT	Fruit	3510.0	27000.0	-0.435028261598363	--
14	POTASSIUM	Fruit	2325.0	17900.0	-0.00146044676900111	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	PHOSPHORUS	Fruit	2105.0	16200.0	3.94375903676458	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
27	LINOLEIC-ACID	Fruit	1840.0	36000.0	0.15250551841720983	--
3	CAPRIC-ACID	Fruit	1000.0	3200.0	1.413939973823674	--
5	CAPRYLIC-ACID	Fruit	920.0	13000.0		--
8	STEARIC-ACID	Fruit	720.0	2305.0	-0.12635840819349412	--
24	PECTIN	Fruit	605.0	4640.0	-0.5751588917297177	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
28	CALCIUM	Fruit	605.0	4640.0	0.18085004106340866	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	CAPROIC-ACID	Fruit	600.0	1920.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
65	MAGNESIUM	Fruit	510.0	3930.0	0.8336264369951842	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	LINOLENIC-ACID	Fruit	240.0	770.0	-0.8207413427736995	--
1	SODIUM	Fruit	65.0	495.0	-0.1370104923804784	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	1-OCTACOSANOL	Fruit	58.0	187.0		--
5	DAUCOSTEROL	Fruit	47.0	416.0		--
47	BETA-SITOSTEROL	Fruit	33.0	281.0	-0.42504048544050566	--
2	CAMPESTEROL	Fruit	28.0	90.0	0.10490824541035179	--
0	TRICONTANOL	Fruit	13.0	42.0		--
12	STIGMASTEROL	Fruit	12.0	38.0	-0.6454844173695994	--
112	ASCORBIC-ACID	Fruit	11.0	88.0	-0.27901743011351393	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
39	NIACIN	Fruit	10.0	75.0	0.19119140633704487	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	IRON	Fruit	9.0	66.0	-0.26568397107756236	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
53	BETA-CAROTENE	Fruit	3.0	24.0	-0.1044090615440342	--
0	HEXACOSANOL	Fruit	2.0	7.0		--
0	TETRACOSANOL	Fruit	1.6	5.0		--
14	MANGANESE	Fruit	1.2	8.9	-0.3448520509579119	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	SILICON	Fruit	1.0	7.8	-0.5831009322457926	--
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
77	ZINC	Fruit	0.7	5.2	-0.7552020844764787	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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.
2	COBALT	Fruit	0.6	5.0	0.07018107914482831	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
60	SELENIUM	Fruit	0.3	2.6	0.2585513872614546	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
24	CHROMIUM	Fruit	0.2	1.4	-0.3109918416443979	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	SPHINGOLIPIDES	Fruit				--
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		--
0	CERAMIDES	Fruit				--
5	CAPRYLIC-ACID	Seed Oil				--
3	MANNOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SABAL-SERRULATA-ACIDIC-POLYSACCHARIDE	Fruit		6000.0		--
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	RHAMNOSE	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
0	24-METHYLENE-CYCLOARTENOL	Fruit				--
0	WATER	Fruit		870000.0	0.43230600391521135	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	CAPRINIC-ACID	Fruit		18000.0		--
1	CAPROIC-ACID	Seed Oil				--
87	RUTIN	Fruit				--
11	SORBITOL	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	P-OXYBENZALDEHYDE	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
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.
25	P-COUMARIC-ACID	Fruit Juice				--
3	CAPRIC-ACID	Seed Oil				--
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)
18	OLEIC-ACID	Seed				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	KAEMPFEROL-3-O-GLUCOSIDE	Fruit				--
0	OCTACOSAN-1-OL	Fruit				--
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	APIGENIN-7-O-RHAMNOGLUCOSIDE	Fruit				--
28	VANILLIN	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	POPULNIN	Fruit				--
8	FRUCTOSE	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	MYRISTIC-ACID	Seed				--
6	1-MONOMYRISTIN	Fruit				--
18	MANNITOL	Seed Oil				--
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	UNDECANOIC-ACID	Fruit				--
24	VANILLIC-ACID	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	PHYTOL	Fruit				--
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)

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18	MANNITOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	1-MONOLAURIN	Fruit				--
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.
21	LUPEOL	Fruit				--
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	TRIDECANOIC-ACID	Fruit				--
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.
0	FIBER(DIETARY)	Fruit		400000.0	0.3503027017814249	--
22	ISOQUERCITRIN	Fruit				--
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	LIPASE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	XYLOSE	Fruit				--
7	GLUCOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	LUPEN-3-ONE	Fruit				--

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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.
2	PHYTOSTEROLS	Fruit		128.0	-1.0530092799127762	--
1	TRIACONTAN-1-OL	Fruit				--
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.
0	FIBER(CRUDE)	Fruit		130000.0	-0.1382131172135812	--
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	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)
7	LAURIC-ACID	Seed				--
1	GALACTOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
3	DECANOIC-ACID	Fruit				--
6	ANTHRANILIC-ACID	Fruit				--
13	P-HYDROXY-BENZOIC-ACID	Plant				--
0	STEROLS	Mesocarp				--
6	SYRINGIC-ACID	Wood				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
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.
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	HEXACOSAN-1-OL	Fruit				--
0	FUCOSE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ACETOVANILLONE	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				--
0	STEROLS	Exocarp				--
4	SYRINGALDEHYDE	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
8	GLYCEROL	Seed Oil				--
7	CYCLOARTENOL	Fruit				--
0	ACETOSYRINGONE	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	SERENOA-POLYPRENOL-3	Fruit		35.0		--
8	STEARIC-ACID	Seed				--
11	GERANYL-GERANIOL	Fruit		16.0		--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
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	CAROTENE	Seed Oil				--
0	SERENOA-POLYPRENOL-2	Fruit		5.0		--
13	PALMITIC-ACID	Seed				--