

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Ulmus rubra*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	CARBOHYDRATES	Bark	134316.0	819000.0	0.4253002673770889	--
0	PENTOSANS	Bark	120000.0	180000.0	1.0	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	MUCILAGE	Bark	41000.0	350000.0	1.0	--
35	TANNIN	Bark	30000.0	65000.0	-0.6655743179937075	--
0	PROTEIN	Bark	15908.0	97000.0	0.6596597557889142	--
0	SUGARS	Bark	14760.0	90000.0	0.9622504486493763	--
5	STARCH	Bark	13120.0	210000.0	1.8603586442275013	--
0	ASH	Bark	12464.0	76000.0	-0.03696421978047823	--
28	CALCIUM	Bark	1602.0	9770.0	-0.8508922219141178	--
0	FAT	Bark	1312.0	8000.0	-0.8086779671088092	--
14	POTASSIUM	Bark	444.0	2710.0	-0.7118794255547221	--
65	MAGNESIUM	Bark	95.0	580.0	-0.7978764763909307	--
4	PHOSPHORUS	Bark	36.0	220.0	-0.8274253906754868	--
39	NIACIN	Bark	33.0	200.0	2.104604179683411	--
53	BETA-CAROTENE	Bark	4.0	25.0	0.7778259438536158	--
5	ALUMINUM	Bark	3.6	22.0	-0.7439000789249773	--
4	TIN	Bark	2.6	16.0	0.4159231879939711	--
1	SODIUM	Bark	1.6	10.0	-0.5262399113885332	--
0	THIAMINE	Bark	0.8	5.0	0.5000000000000001	--
15	RIBOFLAVIN	Bark	0.7	4.1	0.31889318866969746	--
14	MANGANESE	Bark	0.3	1.9	-0.6638645681955431	--
60	SELENIUM	Bark	0.3	1.5	-0.4079856019036855	--
2	COBALT	Bark	0.3	1.8	-0.49763977280155086	--
24	CHROMIUM	Bark	0.2	1.0	-0.48598491785883197	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	KILOCALORIES	Bark		2740.0	0.19097823438993944	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
77	ZINC	Bark				--
1	CITROSTADIENOL	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ALPHA-SITOSTEROL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
6	IRON	Bark				--
0	WATER	Bark		836000.0	0.6561250321199624	--
0	7-HYDROXYCALAMENENE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	HEXOSAN	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CHOLESTEROL	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	7-HYDROXYCALAMENAL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
7	GLUCOSE	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
31	THIAMIN	Bark		5.0	2.1636579972822734	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	5-ISOPROPYL-3,8-DIMETHYL-2-NAPHTHOL	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

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34	SALICYLIC-ACID	Bark		23.0		Luo, W., Ang, C. Y. W., Schmitt, T. C., Betz, J. M. 1998. Determination of Salicin and Related Compounds in Botanical Dietary Supplements by Liquid Chromatography with Fluorescence Detection. J Aoac Int, 81(4): 757-762.
0	GALACTURONIC-ACID	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	CAMPESTEROL	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-HYDROXY-5-ISOPROPYL-8-METHYL-5,6,7,8-TETRAHYDRO-3-NAPTH...	Plant				--
2	PHYTOSTEROLS	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.
8	FRUCTOSE	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-PENTOSAN	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-HYDROXY-5-ISOPROPYL-6-METHOXY-8-METHYL-3-NAPHTHALDEHYDE	Wood				--
4	CALCIUM-OXALATE	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.
15	FIBER	Bark		92000.0	-0.9340975708942237	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

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47	BETA-SITOSTEROL	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	MANSONONE-C	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	SILICON	Bark				--
0	DOLICHOL	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FIBER(DIETARY)	Bark		586000.0	1.506664728341349	--
0	D-GALACTOSE	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
112	ASCORBIC-ACID	Bark		0.0	-1.0104899665727316	--
0	L-RHAMNOSE	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FIBER(CRUDE)	Bark		92000.0	-0.6733163495891362	--