

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Maclura pomifera*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	1,3,6,7-TETRAHYDROXYXANTHONE	Wood				Smith, J. L. and Perino, J. V. 1981. Osage Orange ( <i>Maclura pomifera</i> ): History and Economic Uses. Economic Botany 35(1): 24-41
1	1,3,6,7-TETRAHYDROXYXANTHONE	Heart Wood		917.0		--
0	18-ALPHA-OLEOMANE-3-BETA-19-ALPHA-DIOL	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange ( <i>Maclura pomifera</i> ): History and Economic Uses. Economic Botany 35(1): 24-41
0	19-ALPHA-H-LUPEOL	Fruit		429.0		--
0	2'',3',4',5-TETRAHYDROXY-6-(3''-METHYL-3''-BUTENYL)-ISOFLAVONE	Fruit		12.0		--
0	2',4',5,7-TETRAHYDROXY-6-(3-METHYL-BUT-3-ENYL)-FLAVONE	Fruit		17.0		--
0	2,2',4,4'-TETRAHYDROXY-3-(3-METHYL-2-BUTENYL)-CHALCONE	Tissue Culture				--
0	2-3-4'-5-TETRAHYDROXYSTILBENE	Heart Wood		833.0		--
0	2-3-4'-5-TETRAHYDROXYSTILBENE	Wood		10000.0		--
0	3,6,7,2'-TETRAMETHOXY-4,5-DIHYDROXYFLAVONE	Root Bark				Smith, J. L. and Perino, J. V. 1981. Osage Orange ( <i>Maclura pomifera</i> ): History and Economic Uses. Economic Botany 35(1): 24-41
0	4',5,7-TRIHYDROXY-6-(3-METHYL-BUT-3-ENYL)-FLAVONE	Fruit		11.0		--
4	6-DEOXYJACAREUBIN	Bark				--
4	6-DEOXYJACAREUBIN	Wood				Smith, J. L. and Perino, J. V. 1981. Osage Orange ( <i>Maclura pomifera</i> ): History and Economic Uses. Economic Botany 35(1): 24-41
0	6-DEOXYJAKAREUBIN	Root Bark		60.0		--
0	8,8'-BIS-NARINGENIN	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	8-C-PRENYLNARINGENIN	Tissue Culture				--
0	8-DEOXYGARTANIN	Wood				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	8-DEOXYGARTANIN	Bark				--
0	8-PRENYL-TOXYLOXANTHONE	Root Bark				--
0	8-PRENYL-TOXYLOXANTHONE-C	Root Bark		4153.0		--
0	ALKALOIDS	Fruit	120.0	600.0	-0.7577692253774314	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
2	ALPNUMISOFLAVONE	Tissue Culture				--
3	ALVAXANTHONE	Root Bark	600.0	14200.0		--
1	AMYRIN	Fruit		9000.0		Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
101	APIGENIN	Tissue Culture				--
101	APIGENIN	Fruit		5.0		--
0	ARACHIDIC-ACID	Fruit				--
3	AROMADENDRIN	Tissue Culture				--
3	AROMADENDRIN	Bark		857.0		--
3	AROMADENDRIN	Heart Wood				--
0	AROMADENDRIN-7-O-BETA-D-GLUCOSIDE	Fruit		16.0		--
0	AROMADENDRIN-7-O-BETA-D-GLUCOSIDE	Shoot				--
0	ARTOCARPESIN	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
112	ASCORBIC-ACID	Fruit	30.0	150.0	-0.2751624565642925	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	ASH	Wood		3300.0	-0.586480687305161	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	ASH	Leaf		99600.0	-0.3391911839173297	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	ASTRAGALIN	Fruit		3200.0		--
0	AURICULASIN	Fruit				--
47	BETA-SITOSTEROL	Fruit		80.0	-0.6891305552196143	--
47	BETA-SITOSTEROL	Root				--
47	BETA-SITOSTEROL	Leaf				--
47	BETA-SITOSTEROL	Tissue Culture				--
0	BETA-SITOSTERYL-ACETATE	Root Bark				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	BUTYROSPERMOL	Fruit	117.0	175.0		--
0	BUTYROSPERMOL	Root Bark				--
0	BUTYROSPERMOL	Tissue Culture				--
0	BUTYROSPERMOL-ACETATE	Root Bark				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	BUTYROSPERMOL-ACETATE	Fruit		45.0		--
0	CAFAFLAVANONE	Tissue Culture				--
0	CYCLOARTOCARPESIN	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	D-FRUCTOSE	Fruit				--
1	D-GLUCOSE	Fruit				--
0	DIHYDROISOOSAJIN	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	DIHYDROISOPOMIFERIN	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	DIHYDROKAEMPFEROL	Wood				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	DIHYDROMORIN	Bark		1286.0		--
0	DIHYDROMORIN	Wood				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	DIHYDROMORIN	Heart Wood				--
0	DIHYDROOSAJAXANTHON E-MONOMETHYL-ETHER	Root Bark				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
3	DIHYDROQUERCETIN	Wood				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	DISAIN	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	DL-EUCHRESTAFLAVANONE-B	Root Bark		3834.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DL-EUCHRESTAFLAVANONE-C	Root Bark		6901.0		--
0	EUCHRESTAFLAVANONE-B	Root Bark				--
0	EUCHRESTAFLAVANONE-C	Root Bark				--
0	FAT	Fruit	51600.0	183400.0	0.7595423580914289	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	FAT	Seed		420000.0	0.8143988616679225	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	FAT	Leaf		18700.0	-0.7524775607735339	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	FIBER	Fruit		160000.0	0.17291047495919168	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
8	FRUCTOSE	Shoot				--
7	GLUCOSE	Shoot				--
0	GLUCOSIDES	Fruit	236.0	1180.0		Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	HEMAGGLUTININS	Seed				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
8	INOSITOL	Shoot				--
0	ISOOSAJIN	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ISOPOMIFERIN	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
75	KAEMPFEROL	Fruit		10000.0	1.7320451833851958	--
75	KAEMPFEROL	Wood				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
75	KAEMPFEROL	Bark		29.0		--
1	KAEMPFEROL-7-GLUCOSIDE	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
13	LIGNIN	Wood		412200.0	1.089026839260062	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
27	LINOLEIC-ACID	Fruit				--
0	LUP-20(29)-EN-3(R)-HYDROXY-HEXADECANOIC-ACID	Leaf		25.0		--
0	LUPANE-3,28-DIOL	Leaf				--
0	LUPANE-3-BETA-20-DIOL	Fruit		23.0		--
0	LUPANE-3-BETA-20-DIOL	Root Bark				--
0	LUPANE-3-BETA-20-DIOL	Plant				--
0	LUPANE-3-BETA-20-DIOL-3-MONOACETATE	Root Bark				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	LUPENOL-ACETATE	Fruit		15.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LUPENYL-ACETATE	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
21	LUPEOL	Plant				--
21	LUPEOL	Root Bark				--
21	LUPEOL	Fruit	137.0	2300.0		--
0	LUPEOL-BENZOATE	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	LUPINIFOLIN	Tissue Culture				--
0	LURENOL	Fruit		2459.0		--
0	LURENYL	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	LURENYL-ACETATE	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	LURENYL-BENZOATE	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	MACLURAXANTHONE	Bark				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	MACLURAXANTHONE	Root Bark	1900.0	27250.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	MACLURIN	Fruit				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
1	MACLURIN	Wood				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
15	MORIN	Tissue Culture				--
15	MORIN	Bark		1000.0		--
15	MORIN	Heart Wood		500.0		--
15	MORIN	Wood				--
6	MYRISTIC-ACID	Fruit				--
56	NARINGENIN	Tissue Culture				--
0	NITROGEN	Fruit		25600.0	0.7697338294117962	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	NORARTOCARPENONE	Heart Wood				--
1	NORATHYRIOL	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
18	OLEIC-ACID	Fruit				--
0	OSAJAXANTHONE	Bark				--
0	OSAJAXANTHONE	Root Bark	175.0	639.0		--
0	OSAJIN	Tissue Culture				--
0	OSAJIN	Fruit	9000.0	64000.0		--
1	OXYRESVERATROL	Bark		5714.0		--
1	OXYRESVERATROL	Heart Wood				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	OXYRESVERATROL	Wood				--
13	PALMITIC-ACID	Fruit				--
0	PARVISOFILAVONE-A	Tissue Culture				--
24	PECTIN	Fruit		460400.0	4.835907587345186	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
3	POMIFERIN	Fruit	25.0	19850.0		--
0	POPULNIN	Shoot				--
0	POPULNIN	Fruit	12.0	13.0		--
0	PROTEIN	Leaf		233700.0	0.2180242492216289	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PROTEIN	Fruit		160000.0	0.67699403143139	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
0	PROTEIN	Wood		9700.0		Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
176	QUERCETIN	Root	360.0	1130.0		--
176	QUERCETIN	Bark		14.0		--
176	QUERCETIN	Wood				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
176	QUERCETIN	Fruit	270.0	520.0	2.0037988794180372	--
0	RESIN	Fruit	166640.0	216900.0	2.002753572944224	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
17	RESORCINOL	Bark		21.0		--
17	RESORCINOL	Wood				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
68	RESVERATROL	Heart Wood				--
87	RUTIN	Wood				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
1	SILICIC-ACID	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	STEPPOGENIN	Tissue Culture				--
12	STIGMASTEROL	Leaf				--
14	SUCROSE	Shoot				--
0	SUGAR	Fruit	166640.0	216900.0	0.19476411538055938	Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
35	TANNIN	Wood	90000.0	100000.0	1.2399802396022128	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	TOVOXANTHONE	Root Bark		10.0		--
0	TOXYLOXANTHONE-A	Bark				--
0	TOXYLOXANTHONE-B	Bark				--
0	TOXYLOXANTHONE-C	Bark				--
0	TOXYLOXANTHONE-D	Bark				--
6	UVAOL	Leaf				--
4	WARANGALONE	Fruit				--
4	WARANGALONE	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	WATER	Fruit		800000.0	0.1279394516594334	Smith, J. L. and Perino, J. V. 1981. Osage Orange ( <i>Maclura pomifera</i> ): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
2	WIGHTEONE	Tissue Culture				--