

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Morus alba

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	2,4,4',6-TETRAHYDROXYBENZOPHENONE	Wood				--
0	3,2',4'-TRIHYDROXYDIHYDROSTILBENE	Wood				--
0	3,4'-DIHYDROXYDIHYDROSTILBENE	Wood				--
4	5,7-DIHYDROXYCHROMONE	Plant				--
0	6,3',5'-TRIHYDROXY-2-PHENYLBENZOFURAN	Wood				--
0	A-BETA-HEXENAL	Leaf				--
16	ACETIC-ACID	Leaf				--
3	ACETONE	Leaf				--
11	ADENINE	Leaf				--
0	ALBAFURAN-C	Plant				--
0	ALBANIN-F	Plant				--
0	ALBANIN-G	Plant				--
2	ALBANOL-A	Plant				--
0	ALBANOL-B	Plant				--
10	ALPHA-AMYRIN	Root Bark				--
0	ALPHA-BETA-DIMONTANYGLYCEROL	Plant				--
0	ALUMINUM(AL2O3)	Leaf	8000.0	18000.0		--
12	ARACHIDONIC-ACID	Seed				--
2	ARSENIC	Root Bark		0.1	-0.59974596128421	--
112	ASCORBIC-ACID	Leaf	2000.0	3000.0	-0.16555832480808047	--
112	ASCORBIC-ACID	Fruit	50.0	1040.0	-0.21982493303514608	--
0	ASH	Fruit	7000.0	72000.0	0.39713725772505254	--
0	ASH	Leaf	80000.0	204000.0	1.5002086483155999	--
0	ASPARAGIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
7	ASTRAGALIN	Leaf				--
24	BENZALDEHYDE	Plant				--
9	BETA-AMYRIN	Root Bark				--
53	BETA-CAROTENE	Fruit	1.0	8.0	-0.1353367732684366	--
2	BETA-ECDYSTERONE	Leaf		1.0		--
0	BETA-GAMMA-HEXENOL	Leaf				--
0	BETA-RESORCYLALDEHYDE	Wood				--
47	BETA-SITOSTEROL	Leaf		2000.0	0.002157257976832335	--
4	BETA-SITOSTEROL-BETA-D-GLUCOSIDE	Plant				--
22	BETULINIC-ACID	Root Bark		150.0	-0.9097349416284014	Jim Duke's personal files.
22	BETULINIC-ACID	Bark		1800.0	-0.45685844107981316	Jim Duke's personal files.
4	BIOTIN	Leaf				--
2	BUTYL-ALCOHOL	Plant				--
0	BUTYLAMINE	Leaf				--
102	CAFFEIC-ACID	Plant				--
28	CALCIUM	Root Bark	16100.0	16500.0	-0.29288458740782497	--
28	CALCIUM	Leaf	7000.0	27400.0	0.6124083425478194	--
28	CALCIUM	Fruit	300.0	6400.0	0.5869882979803118	--
0	CALCIUM(CAO)	Leaf	14000.0	24000.0		--
0	CALCIUM-MALATE	Leaf				--
2	CAMPESTEROL	Plant				--
1	CAPROIC-ACID	Plant				--
0	CARBOHYDRATES	Leaf	400000.0	633000.0	0.16820046009689596	--
0	CARBOHYDRATES	Fruit	97000.0	813000.0	0.16105814689833803	--
1	CELLULOSE	Leaf	86000.0	106000.0	-0.7011564552432713	--
3	CHALCOMORACIN	Root				--
77	CHLOROGENIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
20	CHOLINE	Leaf				--
0	CHRYSANTHEMIN	Fruit				--
0	CIS-5-HYDROXY-L-PIPECOLIC-ACID	Plant				--
0	CIS-BETA-GAMMA-HEXANOL	Plant				--
23	CITRIC-ACID	Plant				--
12	COPPER	Root Bark		6.0	-0.8436614877321073	--
0	CUDRANIN	Wood				--
7	CYANIDIN	Fruit				--
0	CYANIDIN-3-GLUCOSIDE	Fruit				--
0	CYCLOMORUSIN	Root Bark				--
0	CYCLOMULBERRIN	Root Bark				--
0	CYCLOMULBERROCHROMENE	Root				--
0	DIHYDROKAEMPFEROL	Wood				--
0	DIHYDROMORIN	Wood				--
3	DIHYDROQUERCETIN	Wood				--
0	DIHYDROXYRESVERATROL	Wood				--
4	ECDYSTERONE	Leaf				--
0	ETHYL-2,4-DIHYROXYBENZOATE	Plant				--
76	EUGENOL	Plant				--
0	FAT	Seed	330000.0	380000.0	0.6037045537002609	--
0	FAT	Leaf	68000.0	74000.0	0.3494738048001785	--
0	FAT	Fruit	4000.0	32000.0	-0.3968386637821932	--
15	FIBER	Leaf		153000.0	-0.10554407663023341	--
15	FIBER	Fruit	9000.0	60000.0	-0.7707375947396303	--
15	FOLACIN	Leaf				--
0	FOLINIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
8	FRUCTOSE	Leaf				--
22	GABA	Leaf				--
7	GLUCOSE	Leaf				--
8	GLUTAMIC-ACID	Leaf				--
7	GLUTATHIONE	Leaf				--
18	GUAIACOL	Plant				--
0	HEXALDEHYDE	Leaf				--
0	HEXEN-(2)-AL-(1)	Leaf				--
0	HYDROXYCINNAMIC-ACID	Leaf				--
0	HYDROXYRESVERATROL	Wood		20000.0		--
5	INOKOSTERONE	Leaf		10.0		--
6	IRON	Root Bark	70.0	290.0	0.08007358287786974	--
6	IRON	Fruit	19.0	247.0	0.4522942458393192	--
0	IRON-OXIDE(Fe2O3)	Leaf	500.0	2600.0	1.0	--
3	ISOAMYL-ALCOHOL	Plant				--
1	ISOBUTYRALDEHYDE	Leaf				--
2	ISOBUTYRIC-ACID	Leaf				--
3	ISOQUERCETIN	Fruit				--
22	ISOQUERCITRIN	Leaf				--
75	KAEMPFEROL	Wood				--
0	KUWANON-A	Root Bark				--
0	KUWANON-B	Root Bark				--
1	KUWANON-C	Root Bark				--
0	KUWANON-F	Root Bark				--
3	KUWANON-G	Root Bark				--
3	KUWANON-H	Root Bark				--
0	KUWANON-I	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	KUWANON-J	Tissue Culture				--
2	LEUCINE	Leaf				--
0	LINALOL	Plant				--
27	LINOLEIC-ACID	Seed				--
21	LUPEOL	Plant				--
8	M-CRESOL	Plant				--
1	MACLURIN	Wood				--
65	MAGNESIUM	Root Bark	2310.0	2450.0	0.5507122311924819	--
0	MAGNESIUM(MGO)	Leaf	2500.0	7200.0		--
15	MALIC-ACID	Leaf				--
14	MANGANESE	Root Bark	15.0	37.0	-0.6808788386911311	--
0	METHYL-ETHYL-ACETALDEHYDE	Leaf				--
1	METHYL-ETHYL-KETONE	Leaf				--
0	METHYL-HEXYL-KETONE	Leaf				--
21	METHYL-SALICYLATE	Plant				--
1	MORACENIN-D	Root				--
0	MORACETIN	Leaf				--
0	MORACHALCONE-A	Tissue Culture				--
15	MORIN	Wood	3000.0	4400.0		--
0	MORUSIN	Root Bark				--
3	MUCILAGE	Fruit				--
0	MULBERRANOL	Root Bark				--
0	MULBERRIN	Plant				--
0	MULBERROCHROMENE	Root				--
0	MULBERROFURAN-B	Root Bark				--
0	MULBERROFURAN-M	Plant				--
0	MULBERROFURAN-N	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
6	MYRISTIC-ACID	Seed				--
0	N-BUTANOL	Leaf				--
1	N-BUTYRALDEHYDE	Leaf				--
39	NIACIN	Fruit	7.0	54.0	-0.08954214940587216	--
0	NORARTOCARPANONE	Wood				--
6	O-CRESOL	Plant				--
18	OLEIC-ACID	Seed				--
9	OXALIC-ACID	Leaf				--
0	OXYDIHYDROMORUSIN	Root Bark				--
1	OXYRESVERATROL	Wood				--
8	P-CRESOL	Plant				--
2	PALMITOLEIC-ACID	Seed				--
24	PECTIN	Leaf				--
0	PELARGONIDIN-3-GLUCOSIDE	Fruit				--
0	PETUNIDIN-3-RUTINOSIDE	Fruit				--
26	PHENOL	Plant				--
4	PHOSPHORUS	Leaf	2400.0	4500.0	-0.08674149660857437	--
4	PHOSPHORUS	Fruit	320.0	3200.0	-0.004858212337336008	--
0	PHOSPHORUS(P2O3)	Leaf	6500.0	14000.0		--
0	PHYTATE-PHOSPHORUS	Leaf	1183.0	2548.0		--
8	PICEATANNOL	Wood				--
2	PIPECOLIC-ACID	Leaf				--
14	POTASSIUM	Fruit	1520.0	10133.0	-0.6886350931023792	--
14	POTASSIUM	Root Bark	4180.0	5270.0	-0.8845257200549443	--
0	POTASSIUM(K2O)	Leaf	20000.0	39200.0		--
0	PROLINE	Leaf				--
6	PROPIONIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	PROTEIN	Seed		250000.0	0.14414237103378544	--
0	PROTEIN	Leaf	140000.0	288000.0	0.7597192152753078	--
0	PROTEIN	Fruit	15000.0	120000.0	0.14077663777077923	--
176	QUERCETIN	Plant				--
2	QUERCETIN-3'-GLUCOSIDE	Leaf				--
44	QUERCITRIN	Leaf				--
17	RESORCINOL	Wood				--
68	RESVERATROL	Wood				--
15	RIBOFLAVIN	Fruit	1.0	14.0	1.9255081807258456	--
87	RUTIN	Leaf	20000.0	60000.0	2.720389880848415	--
87	RUTIN	Fruit				--
0	SARCOSINE	Leaf				--
44	SCOPOLETIN	Leaf				--
3	SCOPOLIN	Leaf				--
0	SILICA(SIO2)	Leaf	18000.0	26000.0		--
0	SITOSTEROL	Root Bark				--
0	SITOSTEROL-ALPHA-GLUCOSIDE	Root Bark				--
0	SITOSTERYL-CAPRATE	Leaf				--
0	SITOSTERYL-PALMITATE	Leaf				--
1	SODIUM	Root Bark	251.0	520.0	0.4024004495631337	--
1	SODIUM	Fruit	370.0	2467.0	0.04999205291006569	--
0	SOLUBLE-SUGARS	Leaf	122000.0	288000.0		--
8	STEARIC-ACID	Seed				--
0	STIGMAST-5-EN-3-BETA-OL-7-ONE	Tissue Culture				--
7	SUCCINIC-ACID	Leaf				--
14	SULFUR	Leaf	3000.0	5600.0	0.177059964805523	--
35	TANNIN	Stem				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
6	TARTARIC-ACID	Leaf				--
2	TETRAHYDROXYSTILBENE	Wood				--
31	THIAMIN	Fruit	0.0	2.0	-0.4266044741562528	--
0	TRANS-5-HYDROXY-L-PIPECOLIC-ACID	Plant				--
0	TRANS-BETA-GAMMA-HEXANOL	Plant				--
15	TRIGONELLINE	Leaf				--
22	UMBELLIFERONE	Root Bark				--
0	VALERALDEHYDE	Leaf				--
9	VALERIC-ACID	Plant				--
0	WATER	Fruit	850000.0	875000.0	0.4540464719334812	--
3	XANTHOPHYLL	Leaf				--
77	ZINC	Root Bark	9.0	14.0	-1.12857618729367	--