

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in Melia azedarach**

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	1,5-DIHYDROXY-8-METHOXY-2-METHYLANTHRAQUINONE-3-O-ALPHA-L...	Plant	--	--		
0	1,8-DIHYDROXY-2-METHYLANTHRAQUINONE-3-O-BETA-D-GALACTOPYRANOSIDE	Plant	--	--		
0	1-ALPHA-METHOXY-1,2-DIHYDROEPOXYAZADIRADIONE	Fruit	--	--		
0	1-CINNAMYLMELIANOLINE	Plant	--	--		
0	1-OCTEN-3-OL	Wood	--	--		
0	1-TERPEN-4-OL	Wood	--	--		
0	17-EPIAZADIRADIONE	Fruit	--	--		
0	21,23,24,25-DIEPOXI-TIRUCALL-7-EN-21-OL	Fruit	--	--		
5	24-METHYLENE-CYCLOARTANOL	Root	--	--		
0	24-METHYLENECYCLOARTENONE	Root	--	--		
0	3-BETA-HYDROXY-5-CAMPESTEN-7-ONE	Plant	--	--		
0	3-BETA-HYDROXY-STIGMAST-5-EN-7-ONE	Fruit	--	--		
0	3-OCTAL	Wood	--	--		
0	3-PHENETHYL-ALCOHOL	Wood	--	--		
0	4',5-DIHYDROXYFLAVONE-7-O-BETA-L-RHAMNOPYRANOSYL...BK	Plant	--	--		
0	4-CAMPESTEN-3-ONE	Root	--	--		
0	6-BETA-HYDROXY-STIGMAST-4-EN-3-ONE	Plant	--	--		
0	6-HYDROXY-7-METHOXY-COUMARIN	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	7-ACETYLNEOTRICHILENONE	Fruit	--	--		
0	7-KETO-BETA-SITOSTEROL	Fruit	--	--		
0	7-O-ALPHA-L-RHAMNOPYRANOSYL-(1-4)-BETA-D-GLUCOPYRANOSIL	Plant	--	--		
0	7-TRICOSANOL	Fruit	--	--		
16	ACETIC-ACID	Fruit	--	--		
0	ALKALOIDS	Root	800	800	-0.882372901503533	
0	ALKALOIDS	Bark	400	400	-0.8936160586734141	
0	ALPHA-COPAENE	Wood	--	--		
23	ALPHA-TERPINEOL	Wood	--	--		
14	ARGININE	Seed	--	--		
3	AROMADENDRENE	Wood	--	--		
7	ASTRAGALIN	Flower	--	--		
0	AZADARACTIN	Fruit	--	--		
0	AZADARINE	Fruit	--	--		
0	AZARIDINE	Fruit	--	--		
0	AZEDARACHOL	Root Bark	--	--		
0	BAKALACTONE	Wood	--	--		
0	BAKAYANIC-ACID	Fruit	--	--		
0	BAKAYANIN	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
20	BENZOIC-ACID	Root	--	--		
9	BENZYL-ACETATE	Wood	--	--		
0	BETA-CARYOPHYLLENE	Wood	--	--		
0	BETA-PHENYLACETATE	Wood	--	--		
47	BETA-SITOSTEROL	Root	--	--		
0	BETA-SITOSTEROL-3-O-BETA-D-GLUCOSIDE	Root	--	--		
102	CAFFEIC-ACID	Plant	--	--		
28	CALCIUM	Leaf	25500	25500	0.4825858163119555	
28	CALCIUM	Seed	2310	2310	-0.3372728725480661	
1	CAPROIC-ACID	Fruit	--	--		
0	CARBOHYDRATES	Plant	586000	586000	-0.5562905578741347	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
37	CARVACROL	Essential Oil	--	--		
43	CATECHIN	Plant	--	--		
3	CHAVICOL	Wood	--	--		
18	CINNAMIC-ACID	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	CINNAMIC-ACID	Leaf	--	--		
18	CINNAMIC-ACID	Root	--	--		
0	CIS-3-N-HEXEN-1-OL	Wood	--	--		
0	CIS-P-MENTHEN-1-OL	Wood	--	--		
2	CITRONELLYL-ACETATE	Wood	--	--		
2	CREOSOL	Wood	--	--		
0	CUBENOL	Wood	--	--		
3	CYCLOEUCALENOL	Root	--	--		
3	CYCLOEUCALENOL	Fruit	--	--		
2	CYSTINE	Seed	--	--		
0	DIEPOXYAZADIRADIONE	Fruit	--	--		
0	DL-CATECHOL	Bark	--	--		
3	ELEMENE	Wood	--	--		
0	EO	Plant	200	200	-0.7249289438155381	
0	EPI-MELIANOL	Fruit	--	--		
0	EPICUBENOL	Wood	--	--		
30	ESCULETIN	Leaf	--	--		
76	EUGENOL	Wood	--	--		
0	FAT	Seed	40000	400000	0.7090517076840918	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
61	FERULIC-ACID	Plant	--	--		
15	FIBER	Seed	116000	116000	-0.1482807912686459	
2	FRAXINELLONE	Plant	--	--		
1	FURFURYL-ALCOHOL	Wood	--	--		
4	GEDUNIN	Plant	--	--		
5	GERANYL-ACETATE	Wood	--	--		
7	GLUCOSE	Fruit	--	--		
8	GLUTAMIC-ACID	Plant	--	--		
12	GLYCINE	Plant	--	--		
0	GUM	Plant	--	--		
14	HYPERIN	Flower	--	--		
75	KAEMPFEROL	Plant	--	--		
0	KAEMPFEROL-3-O-RUTINOSIDE	Leaf	--	--		
0	KILACTONE	Plant	--	--		
0	KULACTONE	Plant	--	--		
0	KULINONE	Plant	--	--		
0	KULOLACTONE	Plant	--	--		
2	LEUCINE	Seed	--	--		
7	LINALYL-ACETATE	Wood	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	LYSINE	Seed	--	--		
0	MANGROVINE	Plant	--	--		
0	MARGOSINE	Fruit	--	--		
0	MELANOL	Plant	--	--		
2	MELDENIN	Seed	--	--		
0	MELIANDIOL	Plant	--	--		
0	MELIANIN-A	Plant	--	--		
0	MELIANIN-B	Plant	--	--		
0	MELIANONE	Fruit	--	--		
3	MELIANTRIOL	Plant	--	--		
0	MELIATOXIN-A-1	Plant	--	--		
0	MELIATOXIN-A-2	Plant	--	--		
0	MELIATOXIN-B-1	Plant	--	--		
0	MELIATOXIN-B-2	Plant	--	--		
0	MELICITRIN	Flower	--	--		
0	MELIOTANNIC-ACID	Fruit	--	--		
15	METHIONINE	Seed	--	--		
0	METHYLKULONATE	Plant	--	--		
0	MUUROLINE	Wood	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-HEPTANOL	Wood	--	--		
0	N-HEXANOL	Wood	--	--		
0	NEO-BAKAYANIN	Fruit	--	--		
10	NEROL	Wood	--	--		
6	NIMBIN	Plant	--	--		
6	NIMBININ	Seed	--	--		
0	NIMBIOL	Bark	--	--		
0	NIMBOLIDIN-A	Fruit	--	--		
0	NIMBOLIDIN-B	Fruit	--	--		
0	NIMBOLININ-A	Fruit	--	--		
0	OCHCINAL	Plant	--	--		
0	OCHINOLAL	Fruit	--	--		
0	OHCHININ	Fruit	--	--		
0	OHCHINOLIDE-A	Fruit	--	--		
0	OHCHINOLIDE-B	Fruit	--	--		
0	OHCHINOLOL	Plant	--	--		
13	PALMITIC-ACID	Seed	22800	22800	-0.22916306995346836	
0	PARAISINE	Leaf	--	--		
4	PHOSPHORUS	Leaf	220	2300	-0.49151284599683054	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PROLINE	Seed	--	--		
0	PROTEIN	Seed	287000	287000	0.4732765325212745	
176	QUERCETIN	Plant	--	--		
0	QUERCETIN-3-O-L-RHAMNOSIDE	Leaf	--	--		
44	QUERCITRIN	Leaf	--	--		
0	RESIN	Plant	--	--		
87	RUTIN	Leaf	--	--		
0	SAPONIN	Bark	--	--		
44	SCOPOLETIN	Leaf	--	--		
0	SEDANOLACTONE	Plant	--	--		
2	SENDANIN	Plant	--	--		
1	SERINE	Seed	--	--		
0	SOLANNIN	Plant	--	--		
5	STARCH	Fruit	--	--		
8	STEARIC-ACID	Seed	22800	22800	-0.07070746225830923	
1	STIGMAST-4-EN-3-ONE	Root	--	--		
0	T-CADINOL	Wood	--	--		
0	T-MUUROLOL	Wood	--	--		
35	TANNIN	Bark	180000	260000	1.0402320992514673	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	THREONINE	Seed	--	--		
0	TRANS-P-2-MENTHEN-1-OL	Wood	--	--		
3	TRIACONTANOL	Fruit	--	--		
24	VANILLIC-ACID	Fruit	--	--		
24	VANILLIC-ACID	Root	--	--		
24	VANILLIC-ACID	Bark	--	--		
28	VANILLIN	Fruit	--	--		
0	VANNILALDEHYDE	Plant	--	--		