

Dr. Duke's Phytochemical and Ethnobotanical Databases

Moringa oleifera LAM. - Moringaceae

Common names: Ben Nut -- Benzolive Tree -- Drumstick Tree -- Horseradish Tree -- Jacinto (Sp.) -- Moringa -- West Indian Ben

Synonyms: *Guilandina moringa*, *M. moringa*, *M. pterygosperma*

[\[Search the USDA Germplasm database for this species\]](#)

Activities

Number of distinct activities for species = 539. [\[View activities\]](#)

List of chemicals

| Chemical | Part | Lo ppm | Hi ppm | Reference |
|---------------------------------------------------------------|-----------|--------|--------|----------------------------|
| 1-BETA-D-GLUCOSYL-2,6-DIMETHYL-BENZOATE | Root | | | PH2 |
| 2,4-METHYLENE-CHOLESTEROL | Seed | | | JAF47:4495 |
| 28-ISOAVENASTEROL | Seed | | | JAF47:4495 |
| 4-(ALPHA-L-RHAMNOSYLOXY)-BENZYLGLUCOCYANATE | Root | | 10000 | PH2 |
| 4-(ALPHA-L-RHAMNOSYLOXY)-BENZYLGLUCOSINOLATE | Seed | | | PH2 |
| 4-(ALPHA-L-RHAMNOSYLOXY)-BENZYLISOTHIOCYANATE | Seed | 80000 | 100000 | PH2 TRA |
| 4-HYDROXYMELLEIN | Stem | | | MPI |
| ALANINE | Shoot | 5320 | 24930 | USA |
| ALKALOIDS | Root Bark | | 1000 | HHB WOI |
| ALPHA-TOCOPHEROL | Seed | | | JAF47:4495 |
| ARACHIDIC-ACID | Seed | 16600 | 39000 | HHB WOI |
| ARGININE | Shoot | 5320 | 24930 | USA |
| ASCORBIC-ACID | Fruit | | 1200 | MPI |
| ASCORBIC-ACID | Shoot | 517 | 2425 | USA |
| ASCORBIC-ACID | Leaf | 2200 | 8800 | WOI |
| ASH | Fruit | 9700 | 82200 | USA |
| | | | | |

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|---------------------------------------|------------------------|--------|--------|----------------------------|
| ASH | Shoot | 22600 | 105900 | USA |
| ASH | Leaf | 23000 | 92000 | WOI |
| ASH | Seed | 32000 | 33333 | WOI |
| ASPARTIC-ACID | Shoot | 9200 | 43110 | USA |
| BASSORIN | Stem | | | TRA |
| BAYRENOL | Bark | | | MPI |
| BEHENIC-ACID | Seed | 17200 | 43000 | PH2 WOI |
| BENZYL-AMINE | Root Bark | | | HHB WOI |
| BENZYL-ISOTHIOCYANATE | Root | | | PH2 |
| BETA-CAROTENE | Leaf | 18 | 72 | WOI MPI |
| BETA-CAROTENE | Shoot | 45 | 215 | USA |
| BETA-CAROTENE | Seed | | 100 | NUT |
| BETA-SITOSTEROL | Seed | | | JAF47:4495 |
| BETA-SITOSTEROL | Stem | | | MPI |
| BETA-SITOSTERONE | Stem | | | MPI |
| BRASSICASTEROL | Seed | | | JAF47:4495 |
| CAFFEIC-ACID | Leaf | | | HHB |
| CALCIUM | Fruit | 300 | 2545 | USA |
| CALCIUM | Leaf | 4400 | 17600 | WOI |
| CAMPESTANOL | Seed | | | JAF47:4495 |
| CAMPESTEROL | Seed | | | JAF47:4495 |
| CARBOHYDRATES | Fruit | 85300 | 722880 | USA |
| CARBOHYDRATES | Seed | 199000 | 207290 | WOI |
| CARBOHYDRATES | Shoot | 82800 | 388000 | USA |
| CARBOHYDRATES | Leaf | 134000 | 536000 | USA |
| CHOLESTEROL | Seed | | | JAF47:4495 |
| CHOLINE | Fruit | | 4230 | EB34:278 |
| CHOLINE | Leaf | | 4230 | EB34:278 |
| CLEROSTEROL | Seed | | | JAF47:4495 |
| COPPER | Leaf | 1 | 4 | WOI |
| CYSTINE | Shoot | 1400 | 6560 | USA |
| D-GALACTOSE | Resin, Exudate, Sap | | | ABS |
| D-GLUCURONIC-ACID | Resin, Exudate, Sap | | | ABS |
| D-MANNOSE | Resin, Exudate, Sap | | | ABS |
| D-XYLOSE | Resin, Exudate, Sap | | | ABS |

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|-----------------------------------------|------------------------|--------|--------|-----------------------------|
| DELTA-5-AVENASTEROL | Seed | | | JAF47:4495 |
| DELTA-7,14-STIGMASTANOL | Seed | | | JAF47:4495 |
| DELTA-7-AVENASTEROL | Seed | | | JAF47:4495 |
| DELTA-TOCOPHEROL | Seed | | | JAF47:4495 |
| EICOSANIC-ACID | Seed | | | PH2 |
| EMULSIN | Stem | | | TRA |
| ERGOSTADIENOL | Seed | | | JAF47:4495 |
| FAT | Fruit | 2000 | 16950 | USA |
| FAT | Leaf | 17000 | 68000 | USA |
| FAT | Shoot | 14000 | 65600 | USA |
| FAT | Seed | 200000 | 500000 | PH2 TRA WOI |
| FIBER | Fruit | 13000 | 110170 | USA |
| FIBER | Leaf | 9000 | 36000 | USA |
| FIBER | Shoot | 15000 | 70290 | USA |
| FIBER | Seed | 35000 | 36450 | WOI |
| FLUORINE | Leaf | | 4 | MPI |
| GADOLEIC-ACID | Seed | 4800 | 12700 | JAF47:4495 |
| GAMMA-TOCOPHEROL | Seed | | | JAF47:4495 |
| GLUCOSINOLATES | Seed | | 70000 | PH2 |
| GLUCOTROPAEOLIN | Root | | 500 | PH2 |
| GLUTAMIC-ACID | Shoot | 10350 | 48500 | USA |
| GLYCINE | Shoot | 5170 | 24225 | USA |
| HISTIDINE | Shoot | 1960 | 9185 | USA |
| INDOLE-ACETIC-ACID | Fruit | | | NUT |
| INDOLEACETONITRILE | Fruit | | | NUT |
| IODINE | Leaf | 0.05 | 0.7 | MPI WOI |
| IRON | Fruit | 3 | 30 | USA |
| IRON | Shoot | 40 | 185 | USA |
| IRON | Leaf | 70 | 280 | WOI |
| ISOLEUCINE | Shoot | 4510 | 21135 | USA |
| KAEMPFEROL | Flower | | | WOI |
| KAEMPFEROL | Leaf | | | HHB |
| KILOCALORIES | Fruit | 370 | 3135 | USA |
| KILOCALORIES | Shoot | 640 | 3000 | USA |
| L-ARABINOSE | Resin, Exudate, Sap | | | ABS |
| L-RHAMNOSE | Resin, Exudate, Sap | | | ABS |
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|-----------------------------------|-----------|--------|--------|-------------------------------------------------------|
| LEUCINE | Shoot | 7910 | 37065 | USA |
| LIGNOCERIC-ACID | Seed | | | HHB PH2 |
| LYSINE | Shoot | 5370 | 25165 | USA |
| MAGNESIUM | Fruit | 450 | 3815 | USA |
| MAGNESIUM | Shoot | 1470 | 6890 | USA |
| METHIONINE | Shoot | 1230 | 5765 | USA |
| MORINGINE | Root Bark | | | HHB WOI |
| MORINGININE | Root Bark | | | HHB WOI |
| MYRISTIC-ACID | Seed | | | HHB |
| MYROSIN | Stem | | | TRA |
| NIACIN | Fruit | 2 | 52 | USA MPI |
| NIACIN | Shoot | 8 | 105 | USA |
| NIAZIMIN | Leaf | | | NR54:24S |
| OCTACOSANOIC-ACID | Stem | | | MPI |
| OLEIC-ACID | Seed | 120000 | 380000 | PH2 WOI JAF47:4495 |
| OXALATE | Leaf | | 32400 | MPI |
| OXALIC-ACID | Fruit | | 1010 | EB34:278 |
| OXALIC-ACID | Leaf | | 1010 | EB34:278 MPI |
| PALMITIC-ACID | Seed | 6000 | 60000 | PH2 WOI |
| PHENYLALANINE | Shoot | 4870 | 22820 | USA |
| PHOSPHORUS | Fruit | 500 | 4235 | USA |
| PHOSPHORUS | Leaf | 700 | 2800 | USA |
| PHOSPHORUS | Shoot | 1120 | 5250 | USA |
| PHYTOSTEROLS | Root | | | HHB |
| POTASSIUM | Fruit | 4610 | 39065 | USA |
| POTASSIUM | Shoot | 3370 | 15790 | USA |
| PROLAMINE | Leaf | | | HHB |
| PROLINE | Shoot | 4510 | 21135 | USA |
| PROTEIN | Fruit | 21000 | 177965 | USA |
| PROTEIN | Shoot | 94000 | 440485 | USA |
| PROTEIN | Seed | 384000 | 400000 | WOI |
| PROTEIN | Leaf | 67000 | 268000 | WOI |
| PTERYGOSPERMIN | Root | | | HHB WOI |
| QUERCETIN | Flower | | | WOI |
| QUERCETIN | Leaf | | | HHB |
| RIBOFLAVIN | Fruit | 0.7 | 6.3 | USA MPI |
| RIBOFLAVIN | Leaf | 0.6 | 6 | MPI |

| | | | | |
|------------------------------|-------|------|--------|----------------------------|
| RIBOFLAVIN | Shoot | 6 | 30 | USA |
| SERINE | Shoot | 4140 | 19400 | USA |
| SODIUM | Fruit | 420 | 3560 | USA |
| SODIUM | Shoot | 90 | 420 | USA |
| SPIROCHIN | Root | | | WOI |
| STEARIC-ACID | Seed | 6000 | 60000 | PH2 WOI |
| STIGMASTANOL | Seed | | | JAF47:4495 |
| STIGMASTEROL | Seed | | | JAF47:4495 |
| SULFUR | Fruit | | 1370 | EB34:278 |
| SULFUR | Leaf | | 1370 | EB34:278 |
| THIAMIN | Fruit | 0.5 | 4.5 | USA |
| THIAMIN | Shoot | 2 | 12 | USA |
| THREONINE | Shoot | 4110 | 19260 | USA |
| TOCOPHEROLS | Leaf | 74 | 296 | WOI |
| TOCOPHEROLS | Seed | | | JAF47:4495 |
| TRYPTOPHAN | Shoot | 1440 | 6745 | USA |
| TYROSINE | Shoot | 3470 | 16260 | USA |
| VALINE | Shoot | 6110 | 28630 | USA |
| VANILLIN | Stem | | | MPI |
| VIT-B-6 | Fruit | 1 | 10 | USA |
| VIT-B-6 | Shoot | 12 | 56 | USA |
| WATER | Fruit | | 882000 | USA |
| WATER | Leaf | | 750000 | WOI |
| WATER | Shoot | | 786600 | USA |
| WATER | Seed | | 40000 | WOI |

[WARNING and DISCLAIMER](#)

Please send pharmacy comments to

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