

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Azadirachta indica*

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|-------------------|------------|---------|----------|----------------------|-------------------|
| 0 | VILASANIN | Leaf | | | | -- |
| 0 | VEPININ | Seed | | | | -- |
| 35 | TANNIN | Stem Bark | | 60000.0 | -0.4287334899984996 | -- |
| 14 | SULFUR | Seed | | 1921.0 | -0.3472066642061236 | -- |
| 1 | SUGIOL | Bark | | | | -- |
| 8 | STEARIC-ACID | Fruit | 79650.0 | 81000.0 | 5.092538330435788 | -- |
| 44 | SCOPOLETIN | Plant | | | | -- |
| 0 | SALANNOLIDE | Plant | | | | -- |
| 4 | SALANNIN | Seed | | | | -- |
| 87 | RUTIN | Leaf | | | | -- |
| 0 | RESIN | Seed | | | | -- |
| 44 | QUERCITRIN | Leaf | | | | -- |
| 176 | QUERCETIN | Leaf | | | | -- |
| 176 | QUERCETIN | Flower | | 1000.0 | 0.9439875157035426 | -- |
| 0 | PROTEIN | Leaf | | 154000.0 | -0.5770602589639733 | -- |
| 0 | PROTEIN | Fruit | | 72000.0 | -0.5026842346219537 | -- |
| 4 | PHOSPHORUS | Leaf | 1900.0 | 2400.0 | -0.47311414829736437 | -- |
| 4 | PHOSPHORUS | Fruit | 2265.0 | 2400.0 | -0.24785004305130007 | -- |
| 13 | PALMITIC-ACID | Fruit | 63000.0 | 71550.0 | 0.7483465722098749 | -- |
| 18 | OLEIC-ACID | Fruit | | 238050.0 | 1.3539859314921616 | -- |
| 2 | NONACOSANE | Flower | | | | -- |
| 0 | NIMOLINONE | Fruit | | | | -- |
| 0 | NIMOLICINOL | Seed | | | | -- |
| 0 | NIMOLICINOIC-ACID | Fruit | | | | -- |
| 2 | NIMOCINOL | Fruit | | | | -- |
| 0 | NIMBOSTEROL | Stem Bark | | 300.0 | | -- |
| 0 | NIMBOLIN-B | Wood | | | | -- |

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|------------------|---------------|------------|---------|----------|----------------------|-------------------|
| 0 | NIMBOLIN-A | Wood | | | | -- |
| 5 | NIMBOLIDE | Leaf | | | | -- |
| 0 | NIMBOCINOME | Plant | | | | -- |
| 0 | NIMBOCINOLIDE | Plant | | | | -- |
| 0 | NIMBIONE | Stem Bark | | | | -- |
| 0 | NIMBIOL | Bark | | | | -- |
| 0 | NIMBINONE | Stem Bark | | | | -- |
| 6 | NIMBININ | Stem Bark | | 10.0 | | -- |
| 0 | NIMBINENE | Leaf | | | | -- |
| 0 | NIMBINENE | Bark | | | | -- |
| 0 | NIMBINENE | Stem | | | | -- |
| 6 | NIMBIN | Stem Bark | | 400.0 | | -- |
| 28 | NIMBIDIN | Seed | | | | -- |
| 28 | NIMBIDIN | Stem Bark | | 4000.0 | | -- |
| 2 | NIMBANDIOL | Stem | | | | -- |
| 2 | NIMBANDIOL | Leaf | | | | -- |
| 0 | NIMBAFLAVONE | Leaf | | | | -- |
| 6 | MYRISTIC-ACID | Fruit | | 630.0 | -0.23942294885205886 | -- |
| 34 | MYRICETIN | Flower | | 1000.0 | | -- |
| 3 | MELIANTRIOL | Seed | | | | -- |
| 2 | MELDENIN | Seed | | | | -- |
| 0 | MARGOSINOLIDE | Plant | | | | -- |
| 0 | MARGOSINE | Stem Bark | | | | -- |
| 0 | MARGODUNOLIDE | Plant | | | | -- |
| 65 | MAGNESIUM | Leaf | | 7100.0 | 1.148461790245598 | -- |
| 65 | MAGNESIUM | Fruit | | 4000.0 | 0.8660405039796483 | -- |
| 27 | LINOLEIC-ACID | Fruit | | 47250.0 | 0.3112259523104981 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|--------------------|------------|---------|----------|----------------------|-------------------|
| 1 | LIGNOCERIC-ACID | Fruit | | 1125.0 | 1.0 | -- |
| 75 | KAEMPFEROL | Flower | | 2000.0 | 1.332774642908181 | -- |
| 0 | ISONIMOLICINOLIDE | Fruit | | | | -- |
| 0 | ISONIMBOCINOLIDE | Leaf | | | | -- |
| 1 | ISONIMBINOLIDE | Stem Bark | | | | -- |
| 0 | ISONIMBINOCINOLIDE | Plant | | | | -- |
| 0 | ISOMARGOSINOLIDE | Plant | | | | -- |
| 0 | ISOAZADIROLIDE | Leaf | | | | -- |
| 30 | HYPEROSIDE | Leaf | | | | -- |
| 4 | GEDUNIN | Seed | | | | -- |
| 15 | FIBER | Leaf | | 127000.0 | -0.4270638916011892 | -- |
| 0 | FAT | Seed | | 450000.0 | 0.9724195926436688 | -- |
| 0 | FAT | Fruit | | 42000.0 | -0.32045946814985354 | -- |
| 0 | EPOXYAZADIRADIONE | Seed | | | | -- |
| 0 | EO | Stem Bark | | 200.0 | -1.0 | -- |
| 0 | DESACETYLNIMBIN | Stem Bark | | | | -- |
| 0 | CARBOHYDRATES | Leaf | | 692000.0 | 0.6374047506069042 | -- |
| 0 | CARBOHYDRATES | Fruit | | 834000.0 | 0.2733559389170977 | -- |
| 28 | CALCIUM | Leaf | 16700.0 | 26500.0 | 0.5509134616992524 | -- |
| 28 | CALCIUM | Fruit | 1381.0 | 3400.0 | -0.10529282176440947 | -- |
| 47 | BETA-SITOSTEROL | Leaf | | | | -- |
| 47 | BETA-SITOSTEROL | Flower | | | | -- |
| 1 | BEHENIC-ACID | Fruit | | 2385.0 | | -- |
| 1 | AZADIRONE | Seed | | | | -- |
| 2 | AZADIRADIONE | Seed | | | | -- |
| 0 | AZADIRACHTOL | Fruit | | | | -- |
| 8 | AZADIRACHTIN | Seed | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|------------|---------|----------|----------------------|--------------------|
| 0 | AZADIRACHTANIN-A | Leaf | | | | -- |
| 0 | AZADIRACHTANIN | Leaf | | | | -- |
| 0 | ASH | Leaf | | 112000.0 | -0.12071840690882082 | -- |
| 0 | ASH | Fruit | | 39000.0 | -0.4574092073357425 | -- |
| 0 | ARACHIDIC-ACID | Fruit | | 9360.0 | 1.3891147803586739 | -- |
| 0 | 7-DESACETYL-GEDUNIN | Seed | | | | -- |
| 0 | 7-DESACETYL-7-HYDROXY-AZADIRADIONE | Fruit | | | | -- |
| 0 | 7-DESACETYL-7-BENZOYLEPOXY-AZADIRADIONE | Seed | | | | -- |
| 0 | 7-DESACETYL-7-BENZOYL-AZADIRADIONE | Seed | | | | -- |
| 0 | 7-ACETYLNEOTRICHILENONE | Seed | | | | -- |
| 2 | 6-O-ACETYL-NIMBANDIOL | Plant | | | | -- |
| 0 | 6-DESACETYLNIMBINENE | Seed | | | | -- |
| 0 | 6-DESACETYLNIMBINENE | Leaf | | | | -- |
| 0 | 6-DESACETYLNIMBINENE | Bark | | | | -- |
| 0 | 6-ACETYL-NIMBANDIOL | Seed | | | | -- |
| 0 | 4ALPHA,6ALPHA-DIHYDROXY-A-HOMO-AZADIRADIONE | Leaf | | | | -- |
| 0 | 4-EPINIMBIN | Seed | | | | -- |
| 0 | 3-TIGLOYLAZADIRACHLOL | Seed | | | | -- |
| 0 | 3-DESACETYLSALANNIN | Seed | | | | -- |
| 0 | 3-DESACETYL-SALANIN | Leaf | | | | -- |
| 0 | 3-DESACETYL-3-CINNAMOYL-AZADIRACHTIN | Leaf | | | | -- |
| 0 | 3-ACETYL-7-TIGLOYL-LACTONE-VILASININ | Leaf | | | | -- |
| 0 | 22,23-DIHYDRO-23BETA-METHOXY-AZADIRACHTIN | Seed | | | | -- |
| 0 | 1BETA,2BETA-DIEPOXY-AZADIRADIONE | Seed | | | | -- |

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|------------------|--|------------|---------|----------|--------|-------------------|
| 0 | 1ALPHA-METHOXY-1,2-DIHYDROAZADIRADIONE | Seed | | | | -- |
| 0 | 17-EPIAZADIRADIONE | Seed | | | | -- |
| 0 | 17-BETA-HYDROXYAZADIRDIONE | Seed | | | | -- |
| 0 | 1-TIGLOYL-3-ACETYL-11-METHOXY-AZADIRACHTININ | Bark | | | | -- |