

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Acacia nilotica*

| Activities Count | Chemical   | Plant Part          | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|--|---------------------|---------|----------|--------|-------------------|
| 1                | RAFFINOSE  | Seed                |         |          |        | --                |
| 32               | HYDROQUINONE                                     | Plant               |         |          |        | --                |
| 0                | ALDOBIOTRIOURONIC-ACID                           | Plant               |         |          |        | --                |
| 0                | DIASTASE   | Plant               |         |          |        | --                |
| 0                | 3',4',7,8-TETRAHYDROXYFLAVONOLID                 | Plant               |         |          |        | --                |
| 6                | EPIGALLOCATECHIN                                 | Plant               |         |          |        | --                |
| 0                | PHLOBAPHENE                                      | Plant               |         |          |        | --                |
| 1                | LYSOLECITHIN                                     | Plant               |         |          |        | --                |
| 9                | BETA-AMYRIN                                      | Root                |         |          |        | --                |
| 44               | QUERCITRIN                                       | Plant               |         |          |        | --                |
| 7                | GLUCOSE  | Fruit               |         |          |        | --                |
| 0                | ALDOBIONIC-ACID                                  | Plant               |         |          |        | --                |
| 6                | OCTACOSANOL                                      | Root                |         |          |        | --                |
| 0                | D-GLUCURONIC-ACID                                | Plant               |         |          |        | --                |
| 0                | 3',4',5,7-TETRAHYDROXYFLAVAN-3-OL(-)-EPICATECHOL | Fruit               |         |          |        | --                |
| 0                | EPICATECHOL                                      | Plant               |         |          |        | --                |
| 0                | PEROXIDASE                                       | Plant               |         |          |        | --                |
| 0                | LINOELIC-ACID                                    | Plant               |         |          |        | --                |
| 0                | TANNASE  | Plant               |         |          |        | --                |
| 0                | QUERCETIN-3-O-RUTINOSIDE                         | Plant               |         |          |        | --                |
| 62               | GALLIC-ACID                                      | Resin, Exudate, Sap |         |          |        | --                |
| 0                | 8-HYDROXYQUINOLINE                               | Plant               |         |          |        | --                |
| 0                | MYRECETIN-4'-METHYLEETHER-3-RHAMNOSIDE           | Plant               |         |          |        | --                |
| 0                | D-GALACTOSE                                      | Plant               |         |          |        | --                |

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|------------------|---|------------|---------|----------|--------|--------------------|
| 0                | 3',4',5,7-TETRAHYDROXYFLAVAN-3-OL       | Fruit      |         |          |        | --                 |
| 0                | DICATECHIN                              | Plant      |         |          |        | --                 |
| 0                | OXIDASE                                 | Plant      |         |          |        | --                 |
| 13               | LIGNIN                                  | Plant      |         |          |        | --                 |
| 0                | ASCORBIC-ACID-OXIDASE                   | Plant      |         |          |        | --                 |
| 14               | SUCROSE                                 | Seed       |         |          |        | --                 |
| 176              | QUERCETIN                               | Plant      |         |          |        | --                 |
| 0                | GALACTURONIC-ACID                       | Plant      |         |          |        | --                 |
| 0                | 7-HYDROXYQUINOLINE                      | Plant      |         |          |        | --                 |
| 3                | MUCILAGE                                | Plant      |         |          |        | --                 |
| 0                | D-CATECHOL                              | Plant      |         |          |        | --                 |
| 0                | 2-O-BETA-L-ARABINOFURANOSYL-L-ARABINOSE | Plant      |         |          |        | --                 |
| 3                | XYLOSE                                  | Fruit      |         |          |        | --                 |
| 9                | OXALIC-ACID                             | Plant      |         |          |        | --                 |
| 0                | LACTONE                                 | Plant      |         |          |        | --                 |
| 112              | ASCORBIC-ACID                           | Plant      |         |          |        | --                 |
| 1                | SODIUM                                  | Plant      |         |          |        | --                 |
| 8                | FRUCTOSE                                | Plant      |         |          |        | --                 |
| 0                | 7-COUMARINYL-ACID                       | Plant      |         |          |        | --                 |
| 23               | PYROGALLOL                              | Plant      |         |          |        | --                 |
| 0                | MONOBUTYRINASE                          | Plant      |         |          |        | --                 |
| 77               | CHLOROGENIC-ACID                        | Plant      |         |          |        | --                 |
| 0                | (3)-LEUCOCYANIDIN-GALLATE               | Plant      |         |          |        | --                 |
| 0                | XANTHURENIC-ACID                        | Plant      |         |          |        | --                 |
| 18               | OLEIC-ACID                              | Plant      |         |          |        | --                 |
| 0                | ARABINOSE                               | Fruit      |         |          |        | --                 |

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|------------------|------------------------------|---------------------|---------|----------|--------|--------------------|
| 4                | SILICON                      | Plant               |         |          |        | --                 |
| 0                | L-ARABINOSE                  | Plant               |         |          |        | --                 |
| 0                | 6-HYDROXYQUINOLINE           | Plant               |         |          |        | --                 |
| 43               | PROTocatechuic-acid          | Fruit               |         |          |        | --                 |
| 14               | MANGANESE                    | Plant               |         |          |        | --                 |
| 1                | CELLULOSE                    | Plant               |         |          |        | --                 |
| 0                | (+)-PYROGALLOL               | Plant               |         |          |        | --                 |
| 0                | URONIC-ACID                  | Plant               |         |          |        | --                 |
| 0                | ARABINOFURANOSYL-L-ARABINOSE | Resin, Exudate, Sap |         |          |        | --                 |
| 0                | SAPONIN                      | Plant               |         |          |        | --                 |
| 3                | KAURENIC-ACID                | Plant               |         |          |        | --                 |
| 0                | 4-ALDOBIOURONIC-ACID         | Plant               |         |          |        | --                 |
| 0                | MALTASE                      | Plant               |         |          |        | --                 |
| 0                | CARBOHYDRATES                | Plant               |         |          |        | --                 |
| 0                | (+)-LEUCOCYANIDIN            | Plant               |         |          |        | --                 |
| 31               | THIAMIN                      | Plant               |         |          |        | --                 |
| 0                | ARABIC-ACID                  | Plant               |         |          |        | --                 |
| 0                | ROSIN                        | Plant               |         |          |        | --                 |
| 0                | KAEMPFEROL-3-O-GLUCOSIDE     | Plant               |         |          |        | --                 |
| 0                | EPICATECHOL-GALLATE          | Plant               |         |          |        | --                 |
| 0                | 4',7,8-TRIHYDROXYFLAVONOID   | Plant               |         |          |        | --                 |
| 14               | POTASSIUM                    | Plant               |         |          |        | --                 |
| 15               | MALIC-ACID                   | Plant               |         |          |        | --                 |
| 28               | CALCIUM                      | Plant               |         |          |        | --                 |
| 0                | (+)-GALLOEGICACID            | Plant               |         |          |        | --                 |
| 1                | AMYLASE                      | Plant               |         |          |        | --                 |
| 0                | ROBIDANDIOL                  | Plant               |         |          |        | --                 |

| Activities Count | Chemical                                | Plant Part          | Low PPM | High PPM | StdDev              | Reference Citation         |
|------------------|---|---------------------|---------|----------|---------------------|----------------------------|
| 2                | ISORHAMNETIN-3-RUTINOSIDE               | Plant               |         |          |                     | --                         |
| 51               | ELLAGIC-ACID                            | Bark                |         |          |                     | --                         |
| 0                | 3-QUINOLYL-ACID                         | Plant               |         |          |                     | --                         |
| 0                | POLYPHENOL-OXIDASE                      | Plant               |         |          |                     | --                         |
| 65               | MAGNESIUM                               | Plant               |         |          |                     | --                         |
| 13               | BETULIN                                 | Root Bark           |         |          |                     | Jim Duke's personal files. |
| 30               | (+)-CATECHIN                            | Plant               |         |          |                     | --                         |
| 5                | ALUMINUM                                | Plant               |         |          |                     | --                         |
| 15               | RIBOFLAVIN                              | Plant               |         |          |                     | --                         |
| 22               | ISOQUERCITRIN                           | Plant               |         |          |                     | --                         |
| 4                | DIGITONIN                               | Plant               |         |          |                     | --                         |
| 0                | 3-O-BETA-L-ARABINOPYRANOSYL-L-ARABINOSE | Resin, Exudate, Sap |         |          |                     | --                         |
| 21               | (-)-EPIGALLOCATECHIN                    | Plant               |         |          |                     | --                         |
| 8                | PHLOROGLUCINOL                          | Plant               |         |          |                     | --                         |
| 0                | M-DIGALLIC-ACID                         | Bark                |         |          |                     | --                         |
| 13               | BETULIN                                 | Plant               |         |          |                     | --                         |
| 0                | RHAMNOSE                                | Fruit               |         |          |                     | --                         |
| 1                | INDOLE-ACETIC-ACID                      | Plant               |         |          |                     | --                         |
| 0                | ALPHA-SITOSTEROL                        | Plant               |         |          |                     | --                         |
| 0                | DICATECHOL                              | Plant               |         |          |                     | --                         |
| 0                | 3',4',7-TRIHYDROXYFLAVAN-3,4-DIOL       | Fruit               |         |          |                     | --                         |
| 0                | (-)-DICATECHIN                          | Plant               |         |          |                     | --                         |
| 0                | PHLOBATANNIN                            | Plant               |         |          |                     | --                         |
| 0                | M-AMINOPHENYL-GLYCOSIDE                 | Plant               |         |          |                     | --                         |
| 53               | BETA-CAROTENE                           | Plant               |         |          |                     | --                         |
| 35               | TANNIN                                  | Bark                |         | 27100.0  | -0.9971131037044363 | --                         |

| Activities Count | Chemical | Plant Part          | Low PPM  | High PPM | StdDev               | Refernce Citation |
|------------------|----------|---------------------|----------|----------|----------------------|-------------------|
| 0                | ASH      | Seed                | 40000.0  | 54000.0  | 0.18407167746881994  | --                |
| 35               | TANNIN   | Wood                |          | 63500.0  | 0.39532807016866817  | --                |
| 35               | TANNIN   | Seed                |          | 66100.0  | -0.17202297185321858 | --                |
| 0                | FAT      | Seed                | 35000.0  | 115000.0 | -0.7921452365854982  | --                |
| 15               | FIBER    | Seed                | 25000.0  | 166000.0 | 0.24652774832059782  | --                |
| 35               | TANNIN   | Resin, Exudate, Sap | 170000.0 | 200000.0 | -0.6588112916807376  | --                |
| 35               | TANNIN   | Fruit               |          | 349500.0 | 2.460165206941449    | --                |
| 0                | PROTEIN  | Seed                | 136000.0 | 452000.0 | 1.9410369823979152   | --                |