

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Hyoscyamus niger*

| Activities Count | Chemical  | Plant Part | Low PPM | High PPM | StdDev               | Refernce Citation |
|------------------|---|------------|---------|----------|----------------------|-------------------|
| 77               | ZINC  | Seed       |         | 48.0     | 0.08142163294753811  | --                |
| 1                | TROPINE   | Leaf       |         |          |                      | --                |
| 1                | TRIMETHYLAMINE                                    | Leaf       |         |          |                      | --                |
| 0                | TETRAMETHYLPUTRESCIN<br>E                         | Leaf       |         |          |                      | --                |
| 8                | STEARIC-ACID                                      | Seed       | 4000.0  | 6224.0   | -0.43035037511466556 | --                |
| 1                | SODIUM  | Seed       |         | 327.0    | -0.19663068181165294 | --                |
| 0                | SCOPOLINE   | Leaf       |         |          |                      | --                |
| 41               | SCOPOLAMINE                                       | Seed       |         |          |                      | --                |
| 0                | SCOPINE   | Leaf       |         |          |                      | --                |
| 0                | SCOPETOL  | Leaf       |         |          |                      | --                |
| 87               | RUTIN   | Leaf       |         |          |                      | --                |
| 0                | RESIN   | Seed       |         |          |                      | --                |
| 0                | QUERCETIN-7-<br>GLUCOSIDO-3-<br>RHAMNOGALACTOSIDE | Leaf       |         |          |                      | --                |
| 3                | PYRIDINE  | Leaf       |         |          |                      | --                |
| 0                | PROTEIN   | Seed       |         | 212000.0 | -0.19388730833174384 | --                |
| 0                | POTASSIUM-NITRATE                                 | Leaf       |         |          |                      | --                |
| 14               | POTASSIUM   | Seed       |         | 5680.0   | -0.6059355609756366  | --                |
| 2                | PHYTOSTEROLS                                      | Seed       |         |          |                      | --                |
| 13               | PALMITIC-ACID                                     | Seed       | 16250.0 | 25285.0  | -0.17788945682521423 | --                |
| 18               | OLEIC-ACID  | Seed       | 88000.0 | 136928.0 | 0.14652834542746918  | --                |
| 6                | MYRISTIC-ACID                                     | Seed       | 750.0   | 1167.0   | -0.280726178330212   | --                |
| 3                | MUCILAGE  | Plant      |         |          |                      | --                |
| 0                | METHYL-PYRROLINE                                  | Leaf       |         |          |                      | --                |
| 0                | METHYL-PYROLLIDINE                                | Leaf       |         |          |                      | --                |
| 14               | MANGANESE   | Seed       |         | 166.0    | 1.4011187949470836   | --                |
| 65               | MAGNESIUM   | Seed       |         | 5250.0   | 0.9102542446893895   | --                |

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|------------------|--------------------------|------------|----------|----------|----------------------|-------------------|
| 27               | LINOLEIC-ACID            | Seed       | 141000.0 | 219396.0 | 0.9619730936420571   | --                |
| 0                | KAEMPFEROL-3-DIGLYCOSIDE | Leaf       |          |          |                      | --                |
| 6                | IRON                     | Seed       |          | 180.0    | 0.13570418938452208  | --                |
| 0                | HYOSCYPICRIN             | Leaf       |          |          |                      | --                |
| 27               | HYOSCYAMINE              | Shoot      |          |          |                      | --                |
| 27               | HYOSCYAMINE              | Leaf       |          |          |                      | --                |
| 0                | GUM                      | Seed       |          | 62000.0  | -0.337157955441029   | --                |
| 22               | GABA                     | Leaf       |          |          |                      | --                |
| 0                | FAT                      | Seed       | 250000.0 | 389000.0 | 0.6511107729929847   | --                |
| 30               | ESCULETIN                | Plant      |          |          |                      | --                |
| 0                | CUSCOHYGRINE             | Leaf       |          |          |                      | --                |
| 57               | COUMARIN                 | Plant      |          |          |                      | --                |
| 12               | COPPER                   | Seed       |          | 26.0     | 1.0145818147623382   | --                |
| 20               | CHOLINE                  | Plant      |          |          |                      | --                |
| 77               | CHLOROGENIC-ACID         | Leaf       |          |          |                      | --                |
| 28               | CALCIUM                  | Seed       |          | 7420.0   | 0.6012192415894938   | --                |
| 0                | BIMETHYLAMINE            | Leaf       |          |          |                      | --                |
| 0                | ATROSCINE                | Seed       |          |          |                      | --                |
| 51               | ATROPINE                 | Seed       |          |          |                      | --                |
| 51               | ATROPINE                 | Leaf       |          |          |                      | --                |
| 2                | ARSENIC                  | Seed       |          | 0.29     | 2.5129489672254346   | --                |
| 2                | APOATROPINE              | Leaf       |          |          |                      | --                |
| 0                | ALKALOIDS                | Leaf       | 300.0    | 1700.0   | -0.49541809872497533 | --                |
| 0                | ALKALOIDS                | Seed       | 600.0    | 100.0    | -0.8112080142662688  | --                |
| 0                | ALKALOIDS                | Root       |          | 1600.0   | -0.8432744380450734  | --                |