

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Ruta graveolens

| Activities Count | Chemical   | Plant Part    | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|--|---------------|---------|----------|--------|-------------------|
| 3                | CHALEPENSIN  | Root          |         |          |        | --                |
| 22               | UMBELLIFERONE  | Plant         |         |          |        | --                |
| 0                | 1-HYDROXY-3-METHOXY-N-METHYLACRIDONE                   | Plant         |         |          |        | --                |
| 0                | METHYL-N-NONYL-KETONE                                  | Essential Oil |         |          |        | --                |
| 5                | ISOVALERIC-ACID  | Leaf          |         |          |        | --                |
| 0                | GRAVEOLINE   | Plant         |         |          |        | --                |
| 0                | 6-METHOXYDICTAMNINE                                    | Plant         |         |          |        | --                |
| 0                | RUTAMINE   | Leaf          |         |          |        | --                |
| 0                | FURACRIDONE  | Plant         |         |          |        | --                |
| 0                | 2-N-UNDECYL-4-QUINOLONE                                | Root          |         |          |        | --                |
| 6                | PROPIONIC-ACID   | Lg            |         |          |        | --                |
| 0                | CERYL-ALCOHOL  | Seed          |         |          |        | --                |
| 0                | TAIWANIN-C   | Plant         |         |          |        | --                |
| 0                | 1-(4',4'-DIMETHYLHEXEN-5'-YL)-3,4-METHYLENEDIOXYBENZOL | Root          |         |          |        | --                |
| 0                | METHYL-N-NONYL-CARBINOL                                | Essential Oil |         |          |        | --                |
| 0                | ISORUTARIN   | Plant         |         |          |        | --                |
| 0                | GRAVELLIFERONE-METHYL-ETHER                            | Root          |         |          |        | --                |
| 0                | 3-(1',1'-DIMETHYLALLYL)-HERNIARIN                      | Root          |         |          |        | --                |
| 0                | RUTAMARIN-ALCOHOL                                      | Root          |         |          |        | --                |
| 0                | 2-N-TRIDECYL-4-QUINOLONE                               | Root          |         |          |        | --                |
| 0                | PREGEIJERENE   | Plant         |         |          |        | --                |
| 0                | SUBERENONE   | Plant         |         |          |        | --                |
| 0                | METHYL-N-HEPTYL-CARBINOL                               | Essential Oil |         |          |        | --                |
| 0                | ISOPROPYLDIHYDROXYFUROQUINOLINE                        | Leaf          |         |          |        | --                |
| 0                | GRAVELLIFERONE   | Root          |         |          |        | --                |

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|------------------|---|---------------|---------|----------|--------|--------------------|
| 0                | 3-(1',1'-DIMETHYLALLYL)-DAPHNETINDIMETHYLETH ER             | Root          |         |          |        | --                 |
| 4                | RUTAMARIN   | Plant         |         |          |        | --                 |
| 1                | ETHYL-VALERATE  | Essential Oil |         |          |        | --                 |
| 0                | 2-N-TETRADECYL-4-QUINOLONE                                  | Root          |         |          |        | --                 |
| 0                | PHOLIOSIDINE  | Leaf          |         |          |        | --                 |
| 5                | BYAKANGELICIN   | Plant         |         |          |        | --                 |
| 8                | STEARIC-ACID  | Seed Oil      |         |          |        | --                 |
| 0                | METHYL-HEPTYL-KETONE  | Essential Oil |         |          |        | --                 |
| 15               | ISOPIMPINELLIN  | Plant         |         |          |        | --                 |
| 0                | GRAVACRIDONETRIOL   | Plant         |         |          |        | --                 |
| 0                | 3-(1',1'-DIMETHYLALLYL)-8-(3',3'-DIMETHYLALLYL)-XANTHYLETIN | Plant         |         |          |        | --                 |
| 0                | RUTALINIUM  | Leaf          |         |          |        | --                 |
| 0                | ERYTHROBUTAN-2,3-DIOL                                       | Plant         |         |          |        | --                 |
| 0                | 2-N-DODECYL-1,4-QUINOLONE                                   | Root          |         |          |        | --                 |
| 26               | PHENOL  | Plant         |         |          |        | --                 |
| 21               | SKIMMIANINE   | Plant         |         |          |        | --                 |
| 0                | METHYL-BUTYRIC-ACID   | Leaf          |         |          |        | --                 |
| 0                | ISOIMPERATOPIN  | Plant         |         |          |        | --                 |
| 13               | BETA-PINENE   | Plant         |         |          |        | --                 |
| 0                | GRAVACRIDONEDIOL-O-METHYL-ETHER                             | Plant         |         |          |        | --                 |
| 0                | 2-UNDECYLALCOHOL  | Leaf          |         |          |        | --                 |
| 0                | RUTACULTIN  | Root          |         |          |        | --                 |
| 0                | MARMESININE   | Root          |         |          |        | --                 |
| 0                | 2-HEPTANONE   | Plant         |         |          |        | --                 |
| 0                | PANGELIN  | Plant         |         |          |        | --                 |

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|------------------|-------------------------------------|---------------|---------|----------|--------|--|
| 0                | SITOSTEROL                          | Seed          |         |          |        | --   |
| 0                | METHYL-ANTHRALINATE                 | Essential Oil |         |          |        | --   |
| 2                | ISOBUTYRIC-ACID                     | Leaf          |         |          |        | --   |
| 26               | BERGAPTEN                           | Plant         |         |          |        | --   |
| 0                | GRAVACRIDONEDIOL-O-BETA-D-GLUCOSIDE | Plant         |         |          |        | --   |
| 0                | RUTACRIDONE                         | Plant         |         |          |        | --   |
| 0                | MARMESINE                           | Root          |         |          |        | --   |
| 0                | EMODIC-ACID                         | Leaf          |         |          |        | --   |
| 0                | 2-HEPTANOL                          | Plant         |         |          |        | --   |
| 13               | PALMITIC-ACID                       | Seed Oil      |         |          |        | --   |
| 12               | HERNIARIN                           | Plant         |         |          |        | --   |
| 44               | SCOPOLETIN                          | Plant         |         |          |        | --   |
| 0                | GRAVACRIDONEDIOL                    | Plant         |         |          |        | --   |
| 0                | 2-UNDECANOL                         | Plant         |         |          |        | --   |
| 0                | RUTACRIDINE                         | Plant         |         |          |        | --   |
| 15               | MALIC-ACID                          | Leaf          |         |          |        | --   |
| 11               | DICTAMNINE                          | Plant         |         |          |        | --   |
| 6                | PROPIONIC-ACID                      | Leaf          |         |          |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0                | 2-DECYL-ALCOHOL                     | Leaf          |         |          |        | --   |
| 18               | OLEIC-ACID                          | Seed Oil      |         |          |        | --   |
| 1                | HELIOXANTHIN                        | Plant         |         |          |        | --   |
| 8                | ARBORININE                          | Plant         |         |          |        | --   |
| 0                | SAVININE                            | Plant         |         |          |        | --   |
| 0                | GRAVACRIDOCHLORINE                  | Plant         |         |          |        | --   |
| 0                | 2-OCTANONE                          | Plant         |         |          |        | --   |

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|------------------|--|---------------|---------|----------|--------|-------------------|
| 0                | RIBALINIUM   | Leaf          |         |          |        | --                |
| 0                | LINOLENIC-ACID                                     | Seed          |         |          |        | --                |
| 0                | DAPHNORETIN-METHYL-ETHER                           | Root          |         |          |        | --                |
| 60               | LIMONENE   | Plant         |         |          |        | --                |
| 0                | 2-DECANONE   | Essential Oil |         |          |        | --                |
| 0                | NAPTHOHERNIARIN                                    | Plant         |         |          |        | --                |
| 18               | GUAIACOL   | Plant         |         |          |        | --                |
| 6                | ANISIC-ACID  | Plant         |         |          |        | --                |
| 0                | GRAVACRIDINOLCHLORINE                              | Plant         |         |          |        | --                |
| 0                | 2-NONYL-ALCOHOL                                    | Leaf          |         |          |        | --                |
| 0                | RIBALINIDINE                                       | Leaf          |         |          |        | --                |
| 27               | LINOLEIC-ACID                                      | Seed          |         |          |        | --                |
| 2                | DAPHNORETIN  | Root          |         |          |        | --                |
| 43               | XANTHOTOXIN  | Plant         |         |          |        | --                |
| 0                | 2-(4-(3,4-METHYLENEDIOXYPHENYL)-BUTYL)-4-QUINOLINE | Leaf          |         |          |        | --                |
| 0                | N-METHYLPLATYDESMINIUM                             | Leaf          |         |          |        | --                |
| 3                | GRAVEOLININE                                       | Plant         |         |          |        | --                |
| 28               | ALPHA-PINENE                                       | Plant         |         |          |        | --                |
| 0                | GEIGERINE  | Plant         |         |          |        | --                |
| 2                | 2-NONANONE   | Plant         |         |          |        | --                |
| 176              | QUERCETIN  | Plant         |         |          |        | --                |
| 0                | CINEOLE  | Plant         |         |          |        | --                |
| 0                | UNDECYL-2-ACETATE                                  | Plant         |         |          |        | --                |
| 0                | 1-METHYL-2-N-NONYL-4-QUINOLONE                     | Plant         |         |          |        | --                |
| 21               | METHYL-SALICYLATE                                  | Essential Oil |         |          |        | --                |
| 0                | KOKUSAGININE                                       | Plant         |         |          |        | --                |

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|------------------|-------------------------|------------|---------|----------|----------------------|-------------------|
| 0                | GRAVEOLINIC-ACID        | Leaf       |         |          |                      | --                |
| 0                | 8-METHOXYGRAVELLIFERONE | Root       |         |          |                      | --                |
| 0                | RUTARETIN               | Plant      |         |          |                      | --                |
| 0                | GAMMA-FAGARINE          | Plant      |         |          |                      | --                |
| 0                | 2-NONANOL               | Plant      |         |          |                      | --                |
| 31               | PSORALEN                | Plant      |         |          |                      | --                |
| 0                | CAROTENE                | Leaf       |         | 944.0    | 0.312259432406706    | --                |
| 112              | ASCORBIC-ACID           | Leaf       |         | 4790.0   | 5.308659189316285E-4 | --                |
| 4                | 2-UNDECANONE            | Plant      | 630.0   | 6300.0   | 1.0                  | --                |
| 0                | EO                      | Leaf       | 600.0   | 7000.0   | -0.39890044792521095 | --                |
| 0                | RUTARIN                 | Leaf       |         | 9000.0   |                      | --                |
| 87               | RUTIN                   | Plant      |         | 20000.0  | -0.38149048246186607 | --                |
| 0                | FAT                     | Seed       |         | 370000.0 | 0.5510309767083454   | --                |