

**Dr. Duke's Phytochemical and Ethnobotanical Databases**

**List of Chemicals for Nematicide**

| Chemical   | Dosage        |
|--|---------------|
| 1'-ACETOXYCHAVICOL-ACETATE                           | 100 ug/ml     |
| 1,8-CINEOLE  | --            |
| 2,3-DIHYDRO-2-HYDROXY-3-METHYLENE-6-METHYLBENZOFURAN | --            |
| 2-CIS,8-CIS-DECA-2,8-DIENE-4,6-DIYNOATE              | EC50=3 ug/ml  |
| 2-UNDECANONE   | --            |
| 28-DEACETYL-SENADANIN                                | --            |
| 4-TERT-BUTYLCYCLOHEXANONE                            | MLC=1,000 uM  |
| 5-(3-BUTEN-1-YNYL)-2,2'-BITHIENYL                    | --            |
| 5-BUTYL-2,2'-BITHIENYL                               | --            |
| 6-ALPHA-HYDROXYMEDICARPIN                            | LD50=25 ug/ml |
| 6-GINGEROL   | LD90=62 ug/ml |
| 6-SHOGAOL  | LD90=62 ug/ml |
| 6-SHOGAOL  | MLC=0.1 mg/ml |
| 9,10-EPOXYHEPTADEC-16-EN-4,6-DIYN-8-OL               | --            |
| ALANTOLACTONE  | --            |
| ALLICIN  | --            |
| ALLIGRIN   | --            |
| ALLYLPYROCATECHOL                                    | --            |
| ALPHA-TERPINEOL                                      | MLC=1 mg/ml   |
| ALPHA-TERTHIENYL                                     | --            |
| ANACARDIC-ACID                                       | --            |
| ANNONACIN  | --            |
| ANNONACIN-A  | --            |
| ANNONASTATIN   | --            |
| ANNONIN-VI   | --            |
| ASCARIDOLE   | --            |
| ASIMICIN   | 1 ppm         |

| Chemical              | Dosage            |
|-----------------------|-------------------|
| ASPARAGUSIC-ACID      | 50 ug/ml          |
| BENZALDEHYDE          | MLC=1 mg/ml       |
| BENZYL-ISOTHIOCYANATE | 0.3-6 mM          |
| BETA-IONONE           | MLC=1 mg/ml       |
| BIS-DEMETHOXYCURCUMIN | --                |
| BOCCONINE             | 50-100 ug/ml      |
| BORNEOL               | MLC=1 mg/ml       |
| BROMELAIN             | --                |
| CAMPHOR               | MLC=1 mg/ml       |
| CARVACROL             | MLC=1 mg/ml       |
| CARVONE               | MLC=1 mg/ml       |
| CHAVIBETEL            | --                |
| CHAVICOL              | --                |
| CHELERYTHRINE         | 50-100 ug/ml      |
| CHUANLIANSU           | --                |
| CINNAMALDEHYDE        | 100 ug/ml         |
| CINNAMYL-ACETATE      | MLC=1,000 uM      |
| CINNAMYL-ALCOHOL      | MLC=1,000 uM      |
| CIS-DEHYDROMATRICARIA | --                |
| CITRAL                | IC52=100 ug/ml    |
| CITRAL                | MLC=100-260 ug/ml |
| CITRONELLAL           | MIC 1 mg/ml       |
| CITRONELLOL           | MLC=100 ug/ml     |
| CONCAVALIN-A          | --                |
| COUMESTROL            | ED50=10-15 ug/ml  |
| CURCUMIN              | --                |
| CURCUMIN-IV           | --                |

| Chemical                               | Dosage            |
|--|-------------------|
| CYCLOCURCUMIN                          | --                |
| DECANOIC-ACID                          | --                |
| DECANOL                                | MLC 100-700 ug/ml |
| DEMETHOXYCURCUMIN                      | --                |
| DI-N-BUTYL-SUCCINATE                   | --                |
| ERYSOLIN                               | --                |
| ETHYL-CINNAMATE                        | MLC=1,000 uM      |
| EUGENOL                                | MLC=2,000 ug/ml   |
| FALCARINDIOL                           | --                |
| FARNESOL                               | MLC=100 ug/ml     |
| GERANIOL                               | IC86=100 ug/ml    |
| GERANIOL                               | MLC=1,000 ug/ml   |
| GINGEROL                               | --                |
| GLYCEOLLIN                             | --                |
| GLYCEOLLIN-I                           | --                |
| GLYCEOLLIN-II                          | --                |
| HEPTADECA-1,9-DIENE-4,6-DIYNE-3,8-DIOL | --                |
| HINOKITOL                              | MLC=0.1-1 mg/ml   |
| HYDROXYVERNOLIDE                       | --                |
| INDOLE                                 | MLC=1 mg/ml       |
| ISOALANTOLACTONE                       | --                |
| ISOBORNEOL                             | MLC=1 mg/ml       |
| JASMONE                                | MLC=1 mg/ml       |
| KOSAMIN                                | --                |
| LIMONENE                               | IC=100 ug/ml      |
| LINALOOL                               | MLC=1 mg/ml       |
| LINOLEIC-ACID                          | --                |

| Chemical  | Dosage         |
|---|----------------|
| MEDICARPIN  | LD50=25 ug/ml  |
| MENTHOFURAN   | MLC=1 mg/ml    |
| MENTHOL   | MLC=1 mg/ml    |
| MENTHONE  | MLC=1 mg/ml    |
| METHYL-CINNAMATE  | MLC=1 mg/ml    |
| METHYL-EUGENOL  | MIC=1 mg/ml    |
| METHYL-ISOEUGENOL   | MLC=1 mg/ml    |
| MYRISTIC-ACID   | --             |
| N-BUTYL-P-ACETOXYCINNAMATE                                    | MLC=80 uM      |
| NEROLIDOL   | MLC=1 mg/ml    |
| P-ANISALDEHYDE  | MLC=1 mg/ml    |
| PALMITIC-ACID   | --             |
| PAPAIN  | --             |
| PERILLALDEHYDE  | MLC=1 mg/ml    |
| PERILLYL-ALCOHOL  | MLC=1 mg/ml    |
| PYROCATECHOL  | --             |
| SAFROLE   | MLC=1 mg/ml    |
| SANGUINARINE  | 50-100 ug/ml   |
| SANTONIN  | --             |
| SHOGAOL   | --             |
| SN-GLYCEROL-1-EICOSA-9,12-DIENOATE-2-PALMITOLEATE-3-LINOLEATE | ED50=100 ug/ml |
| SULFORAPHAN   | --             |
| TERPINEN-4-OL   | MLC=1 mg/ml    |
| THIARRUBRINE-A  | 5 ppm          |
| THIOPHENE   | --             |
| THYMOL  | MLC=0.1 mg/ml  |
| TRANS-ASARONE   | 200 ug/ml      |

| Chemical                        | Dosage |
|---------------------------------|--------|
| TRANS-DEHYDROMATRICARIA         | --     |
| TRANS-DEHYDROMATRICARIA-ESTER   | --     |
| TRIDEC-1-EN-3,5,7,9,11-PENTAYNE | --     |