

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Mentha longifolia*

| Activities Count | Chemical            | Plant Part | Low PPM | High PPM | StdDev                | Reference Citation   |
|------------------|---------------------|------------|---------|----------|-----------------------|--|
| 67               | 1,8-CINEOLE         | Shoot      | 30.0    | 10930.0  | 0.021156215665233555  | --   |
| 2                | 3-OCTANOL           | Shoot      | 1.0     | 2395.0   | 5.319914789020483     | --   |
| 3                | ALPHA-CADINOL       | Shoot      | 34.0    | 250.0    | 3.6671319397513846    | Planta Medica, 57: A83, 1991.  |
| 11               | ALPHA-PHELLANDRENE  | Shoot      | 11.0    | 70.0     | -0.13159795789038686  | Planta Medica, 57: A83, 1991.  |
| 28               | ALPHA-PINENE        | Shoot      | 7.0     | 1065.0   | -0.04123398777705887  | --   |
| 13               | ALPHA-TERPINENE     | Shoot      | 0.0     | 170.0    | -0.004806475844184345 | --   |
| 23               | ALPHA-TERPINEOL     | Shoot      | 1.0     | 1175.0   | 0.9256745012139821    | --   |
| 5                | BETA-ELEMENE        | Shoot      | 0.0     | 275.0    | 0.5927988006074945    | --   |
| 13               | BETA-PINENE         | Shoot      | 28.0    | 1160.0   | -0.0398446940909524   | --   |
| 35               | BORNEOL             | Shoot      | 1.0     | 1250.0   | 0.8099246345244387    | Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from <i>Mentha longifolia</i> Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57. |
| 12               | BORNYL-ACETATE      | Shoot      | 1.0     | 175.0    | -0.11715337786974139  | Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from <i>Mentha longifolia</i> Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57. |
| 9                | CAMPHENE            | Shoot      | 0.0     | 385.0    | -0.0987549654618178   | --   |
| 19               | CARVONE             | Shoot      | 0.0     | 29560.0  | 5.1429437483451235    | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| 31               | CARYOPHYLLENE       | Shoot      | 110.0   | 9995.0   | 4.379447073242362     | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| 8                | CARYOPHYLLENE-OXIDE | Shoot      | 0.0     | 835.0    | 1.4318059365230096    | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| 3                | CIS-OCIMENE         | Shoot      | 1.0     | 685.0    | 2.6374819692309295    | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| 9                | DELTA-CADINENE      | Shoot      | 0.0     | 140.0    | 0.9634066643685961    | --   |
| 2                | DIHYDROCARVEOL      | Shoot      | 1.0     | 3150.0   | 1.4142135623730951    | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |

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|------------------|------------------------|------------|---------|----------|----------------------|---|
| 1                | DIHYDROCARVYL-ACETATE  | Shoot      | 0.0     | 3570.0   | 1.0                  | --  |
| 34               | DIOSMIN                | Plant      |         |          |                      | --  |
| 4                | DIOSPHENOL             | Shoot      |         |          |                      | --  |
| 76               | EUGENOL                | Shoot      |         |          |                      | --  |
| 11               | GAMMA-TERPINENE        | Shoot      | 0.0     | 57.0     | -0.35495130817227305 | --  |
| 35               | GERANIOL               | Shoot      | 1.0     | 115.0    | -0.4373077769387356  | Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57. |
| 5                | GERANYL-ACETATE        | Shoot      | 1.0     | 45.0     | -0.4289795641877345  | Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57. |
| 2                | GERMACRENE-D           | Shoot      | 140.0   | 8850.0   | 4.5910282751920635   | --  |
| 31               | HESPERIDIN             | Plant      |         |          |                      | --  |
| 1                | ISOMENTHOL             | Shoot      | 0.0     | 190.0    | -0.6584710029748253  | Planta Medica, 57: A83, 1991.   |
| 3                | ISOMENTHONE            | Shoot      | 0.0     | 16065.0  | 2.323453721592974    | --  |
| 60               | LIMONENE               | Shoot      | 7.0     | 3040.0   | 1.2190702567969351   | --  |
| 53               | LINALOOL               | Shoot      | 10.0    | 33360.0  | 1.0005419775185522   | --  |
| 7                | LUTEOLIN-7-GLUCOSIDE   | Plant      |         |          |                      | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.          |
| 3                | LUTEOLIN-7-GLUCURONIDE | Plant      |         |          |                      | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.          |
| 5                | MENTHOFURAN            | Shoot      | 0.0     | 14570.0  | 2.447922371975267    | --  |
| 63               | MENTHOL                | Shoot      | 0.0     | 620.0    | 0.29142386877781745  | --  |
| 30               | MENTHONE               | Shoot      | 0.0     | 4485.0   | -0.05903408796777609 | --  |
| 2                | MENTHYL-ACETATE        | Plant      | 43.0    | 275.0    |                      | Planta Medica, 57: A83, 1991.   |
| 22               | MYRCENE                | Shoot      | 17.0    | 550.0    | 0.2854137429610451   | --  |

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|------------------|------------------------------|------------|---------|----------|-----------------------|---|
| 5                | MYRTENAL                     | Shoot      | 1.0     | 100.0    | -0.1860343737134976   | Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57. |
| 2                | MYRTENOL                     | Shoot      | 1.0     | 35.0     | -0.19316706460982225  | Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57. |
| 16               | P-CYMENE                     | Shoot      | 1.0     | 23.0     | -0.4831699125902253   | --  |
| 2                | PHENYLETHYL-2-METHYLBUTYRATE | Shoot      | 1.0     | 60.0     |                       | Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57. |
| 3                | PIPERITENONE                 | Shoot      | 1.0     | 9920.0   | 3.3658952187586366    | --  |
| 2                | PIPERITENONE-OXIDE           | Shoot      | 1.0     | 22380.0  | 2.635518112325883     | --  |
| 7                | PIPERITONE                   | Shoot      | 0.0     | 30400.0  | 5.6949532593088605    | --  |
| 28               | PULEGONE                     | Shoot      | 0.0     | 26600.0  | -0.059281243922669244 | --  |
| 44               | QUERCITRIN                   | Plant      |         |          |                       | --  |
| 57               | ROSMARINIC-ACID              | Plant      |         | 29000.0  | 0.038348584928534366  | --  |
| 5                | SABINENE                     | Shoot      | 20.0    | 750.0    | 0.5026397896400224    | --  |
| 23               | TERPINEN-4-OL                | Shoot      | 1.0     | 800.0    | 0.16443270447025435   | --  |
| 9                | TERPINOLENE                  | Shoot      | 0.0     | 20.0     | -0.22817845236300732  | --  |
| 71               | THYMOL                       | Shoot      | 1.0     | 15.0     | -0.3291951998363978   | Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57. |
| 1                | TRANS-CARVEOL                | Shoot      | 1.0     | 340.0    | -0.14188026442592658  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| 6                | UMBELLULONE                  | Shoot      | 27.0    | 168.0    | 1.413905734276786     | Planta Medica, 57: A83, 1991.   |
| 1                | VIRIDIFLOROL                 | Shoot      | 0.0     | 85.0     | 0.28063481963637366   | Planta Medica, 57: A83, 1991.   |