

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Piper methisticum

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------|---------------------|---------|----------|---------------------|--|
| 5 | STARCH | Root | | 430000.0 | 0.47798800143335857 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | RESINIC-ACID | Root | | 233000.0 | | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| 15 | FIBER | Root | | 200000.0 | 2.4848485237263582 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | KAVALACTONES | Root | 30000.0 | 200000.0 | | -- |
| 47 | BETA-SITOSTEROL | Root | | 166000.0 | 3.7415916306490002 | -- |
| 0 | WATER | Root | | 120000.0 | -4.249475521429359 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | CINNAMALACETONE | Resin, Exudate, Sap | | 64550.0 | | -- |
| 0 | RESIN | Root | | 53000.0 | 1.582097407375253 | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| 12 | YANGONIN | Resin, Exudate, Sap | | 43300.0 | | -- |
| 0 | PROTEIN | Root | | 36000.0 | -0.925459680358799 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 29 | KAWAIN | Resin, Exudate, Sap | | 33800.0 | | -- |
| 0 | SUGARS | Root | | 32000.0 | -0.6957589764007501 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | ASH | Root | | 32000.0 | -1.0153986345301809 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|---------------------|---------|----------|--------|--|
| 0 | 3-4-METHYLENEDIOXY-CINNAMYLIDENEACETONE | Resin, Exudate, Sap | | 25450.0 | | -- |
| 18 | METHYSTICIN | Resin, Exudate, Sap | | 22200.0 | | -- |
| 18 | METHYSTICIN | Rhizome | 12000.0 | 13400.0 | | -- |
| 29 | KAWAIN | Rhizome | 9300.0 | 12000.0 | | -- |
| 0 | DEHYDROKAWAIN | Resin, Exudate, Sap | | 11100.0 | | -- |
| 0 | TRANS-PHYTOL | Root | | 10500.0 | | -- |
| 14 | DIHYDROKAWAIN | Rhizome | 6000.0 | 10500.0 | | -- |
| 0 | DESMETHOXYANGONIN | Rhizome | | 10000.0 | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 12 | YANGONIN | Rhizome | 6800.0 | 10000.0 | | -- |
| 18 | DIHYDROMETHYSTICIN | Rhizome | 5000.0 | 8500.0 | | -- |
| 18 | METHYSTICIN | Leaf | | 7100.0 | | -- |
| 0 | OCTADECANOL | Root | | 5300.0 | | -- |
| 1 | HEXADECANOL | Root | | 3600.0 | | -- |
| 0 | TETRACOSANOL | Root | | 3200.0 | | -- |
| 1 | EICOSANOL | Root | | 2100.0 | | -- |
| 0 | DOCOSANOL | Root | | 2000.0 | | -- |
| 0 | PIPERMETHYSTINE | Leaf | | 1700.0 | | -- |
| 0 | FLAVOKAWIN-A | Resin, Exudate, Sap | | 1620.0 | | -- |
| 0 | FLAVOKAWIN-B | Resin, Exudate, Sap | | 1400.0 | | -- |
| 14 | DIHYDROKAWAIN | Root | | 740.0 | | -- |
| 29 | KAWAIN | Root | | 306.0 | | -- |
| 3 | CINNAMIC-ACID-BORNYL-ESTER | Root | | 300.0 | | -- |
| 12 | YANGONIN | Root | | 280.0 | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------------|------------|---------|----------|--------|--|
| 0 | FLAVOKAWAIN | Root | | 200.0 | | -- |
| 0 | FLAVOKAWAIN-C | Plant | | 200.0 | | J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991. |
| 18 | DIHYDROMETHYSTICIN | Root | | 160.0 | | -- |
| 18 | METHYSTICIN | Root | | 140.0 | | -- |
| 0 | COMPOUND-A | Root | | 90.0 | | -- |
| 6 | PINOSTROBIN | Root | | 70.0 | | -- |
| 1 | 5,7-DIMETHOXYFLAVONE | Root | | 40.0 | | -- |
| 0 | 11,12-DIMETHOXYDIHYDROKAWAIN | Root | | 22.0 | | -- |
| 0 | 11-HYDROXY-12-METHOXYDIHYDROKAWAIN | Root | | 9.0 | | -- |
| 0 | (+)-5-6-7-8-TETRAHYDROYANGONIN | Rhizome | | 3.0 | | -- |
| 0 | CEPHARADIONE-A | Root | | 2.0 | | -- |
| 0 | 5,6-DIHYDROYANGONIN | Root | | | | -- |
| 29 | KAWAIN | Leaf | | | | -- |
| 2 | CAMPESTEROL | Rhizome | | | | -- |
| 0 | YANGONIN-I | Plant | | | | -- |
| 0 | EICOSAN-1-OL | Rhizome | | | | -- |
| 0 | CAPRONIC-ACID | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 0 | KAWAINIC-ACID | Plant | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--------------------------------------|------------|---------|----------|--------|--|
| 0 | METHYLENE-DIOXY-3,4-CINNAMAOYLKETONE | Root | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | TETRAHYDROYANGONIN | Plant | | | | -- |
| 0 | DEMETHOXYANGONIN | Rhizome | | | | -- |
| 0 | HEXADECAN-1-OL | Rhizome | | | | -- |
| 18 | CINNAMIC-ACID | Plant | | | | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 0 | P-METHOXY-PHENYL-ACETIC-ACID | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 47 | BETA-SITOSTEROL | Rhizome | | | | -- |
| 5 | 5,6-DEHYDROKAWAIN | Plant | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| 0 | 11-METHOXY-12-HYDROXY-DEHYDROKAWAIN | Root | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | DOCOSAN-1-OL | Rhizome | | | | -- |
| 20 | BENZOIC-ACID | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 29 | KAWAIN | Plant | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------------|------------|---------|----------|--------|--|
| 2 | MALTOSE | Root | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | DEMETHOXYANGONIN | Root | | | | -- |
| 20 | BENZOIC-ACID | Plant | | | | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 29 | KAWAIN | Stem | | | | -- |
| 47 | BETA-SITOSTEROL | Leaf | | | | -- |
| 0 | 11-HYDROXY-ANGONIN | Root | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 6 | ANISIC-ACID | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 0 | FLAVOKAWIN-B | Plant | | | | -- |
| 0 | M-METHOXYCINNAMIC-ACID-PYRROLIDIDE | Plant | | | | -- |
| 0 | 2-METHOXYCINNAMIC-ACID-PYRROLIDIDE | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 0 | DEHYDROMETHYSTICIN | Plant | | | | -- |
| 0 | FLAVOKAWIN-A | Rhizome | | | | -- |
| 0 | 5-DIHYDROANGONIN | Plant | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|------------|---------|----------|--------|--|
| 0 | HYDROXYCINNAMIC-ACID | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 0 | TETRADECAN-1-OL | Rhizome | | | | -- |
| 0 | 7-8-DIHYDROKAWAIN | Rhizome | | | | -- |
| 5 | 5,6-DEHYDROKAWAIN | Leaf | | | | -- |
| 18 | DIHYDROMETHYSTICIN | Stem | | | | -- |
| 0 | FLAVOKAWIN-A | Plant | | | | -- |
| 3 | 3,4-METHYLENE-DIOXYCINNAMIC-ACID-BORNYL-ESTER | Root | | | | -- |
| 0 | DEHYDROKAWAIN | Stem | | | | -- |
| 0 | DODECAN-1-OL | Rhizome | | | | -- |
| 0 | 5,6,7,8-TETRAHYDROYANGONIN | Plant | | | | J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991. |
| 0 | DIMETHOXYKAVAIN | Plant | | | | -- |
| 0 | FLAVOKAVIN-B | Root | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 0 | TETRACOSAN-1-OL | Rhizome | | | | -- |
| 0 | FLAVOKAWIN-C | Rhizome | | | | -- |
| 0 | FLAVOKAVIN-A | Root | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--|------------|---------|----------|--------|--|
| 0 | 5,6,7,8-TETRAHYDROYANGONIN | Rhizome | | | | -- |
| 12 | YANGONIN | Stem | | | | -- |
| 18 | DIHYDROMETHYSTICIN | Leaf | | | | -- |
| 0 | HYDROXYKAWAIN | Plant | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | 4-OXO-N-NANANOIC-ACID | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 0 | 3,4-(METHYLENE-DIOXY)CINNAMYLIDENACE TOL | Plant | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | CINNAMIC-ACID-PYRROLIDIDE | Plant | | | | -- |
| 0 | STIGMASTANOL | Rhizome | | | | -- |
| 0 | FLAVOKAWIN-C | Root | | | | -- |
| 14 | SUCROSE | Root | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | DIHYDROKAWAIN-5-OL | Rhizome | | | | -- |
| 12 | YANGONIN | Leaf | | | | -- |
| 18 | DIHYDROMETHYSTICIN | Plant | | | | -- |
| 0 | DEHYDROKAWAIN | Root | | | | -- |
| 0 | 2',4'-DIMETHYLCHALCONARING ENIN | Plant | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------|------------|---------|----------|--------|--|
| 0 | CINNAMALAKETONE | Root | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | FLAVOKAWIN-B | Leaf | | | | -- |
| 0 | 11-METHOXYANGONIN | Rhizome | | | | -- |
| 0 | STIGMASTENDIONE | Plant | | | | -- |
| 14 | DIHYDROKAWAIN | Stem | | | | -- |
| 0 | TETRAHYDROANGONIN | Root | | | | -- |
| 0 | DIHYDROKAWAIN-5-OL | Plant | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 7 | GLUCOSE | Root | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | 11-METHOXYANGONIN | Plant | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | OCTADECAN-1-OL | Rhizome | | | | -- |
| 0 | 11,12-DIMETHOXYDIHYDROKAWAIN | Rhizome | | | | -- |
| 0 | FLAVOKAWIN-B | Rhizome | | | | -- |
| 0 | CINNAMALACETONE | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 0 | 11-METHOXYNORANGONIN | Rhizome | | | | -- |
| 0 | STIGMASTEN-4,3,6-DIONE | Plant | | | | -- |
| 12 | STIGMASTEROL | Rhizome | | | | -- |
| 14 | DIHYDROKAWAIN | Plant | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------------|------------|---------|----------|--------|--|
| 8 | FRUCTOSE | Root | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | 11-METHOXYNORYANGONIN | Plant | | | | -- |
| 0 | FLAVOKAWIN-A | Leaf | | | | -- |
| 0 | CINNAMIC-ACID-PYRROLIDIDE | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 12 | YANGONIN | Plant | | | | -- |
| 0 | YANGOININ | Rhizome | | | | -- |
| 14 | DIHYDROKAWAIN | Leaf | | | | -- |
| 0 | DESMETHOXYANGONIN | Plant | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | FLAVOKAVIN-C | Plant | | | | -- |
| 2 | PHENYLACETIC-ACID | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 0 | 11-HYDROXY-12-METHOXYDIHYDROKAWAIN | Plant | | | | -- |
| 0 | 7,8-DIHYDROYANGONIN | Root | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 18 | METHYSTICIN | Stem | | | | -- |
| 1 | CHOLESTEROL | Rhizome | | | | -- |
| 0 | YANGONIN-III | Plant | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------|------------|---------|----------|--------|--|
| 0 | PIPERMETHYSTINE | Plant | | | | J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991. |
| 0 | TRANS-PHYTOL | Rhizome | | | | -- |
| 0 | DEMETHOXYANGONIN | Leaf | | | | -- |
| 0 | DEMETHOXYANGONIN | Plant | | | | -- |
| 0 | FLAVOKAVIN-B | Plant | | | | -- |
| 9 | OXALIC-ACID | Root | | | | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| 0 | 11,12-DIMETHOXYDIHYDROKAWAIN | Plant | | | | -- |
| 0 | 7-8-DIHYDROKAWAIN | Plant | | | | -- |
| 0 | YANGONIN-II | Plant | | | | -- |
| 0 | FLAVOKAWIN-A | Root | | | | -- |
| 18 | CINNAMIC-ACID | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 18 | METHYSTICIN | Plant | | | | -- |
| 0 | TETRAHYDROYANGONIN | Stem | | | | -- |
| 0 | DEMETHOXYANGONIN | Stem | | | | -- |
| 0 | CINNAMYLIDENACETOL | Plant | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | FLAVOKAVIN-A | Plant | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|---------------------------------------|------------|---------|----------|--------|--|
| 0 | METHYLENE-DIOXY-3,4-CINNAMAOYLACETONE | Rhizome | | | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |