

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for MYRCENE

| Plant                 | Part                | Low PPM | High PPM | StdDev               | Reference   |
|-----------------------|---------------------|---------|----------|----------------------|---|
| Abies alba            | Leaf                | 25.0    | 35.0     | -0.1600457060081973  | --  |
| Achillea millefolium  | Leaf                | 0.5     | 20.0     | -0.1654584943659963  | --  |
| Acinos suaveolens     | Shoot               |         | 15.0     | -0.32521825907613217 | Tumen, G. 1991. The Volatile Constituents of Acinos suaveolens (Sibt. et Smith). G. Don fil. Growing in Turkey. J. Ess. Oil Res. 3:191-2.   |
| Acorus calamus        | Plant               |         |          |                      | --  |
| Agastache foeniculum  | Plant               |         | 30.0     | -0.44314297648900247 | Mazza, G. and Kiehn, F.A. 1992. Essential Oil of Agastache foeniculum, A Potential Source of Methyl Chavicol. J. Ess. Oil Res., 4: 295-299. |
| Agastache urticifolia | Plant               |         | 266.0    | -0.1838601143310639  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| Agastache nepetoides  | Plant               |         | 2.0      | -0.4739053499653681  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| Agathosma betulina    | Leaf Essent. Oil    |         |          |                      | --  |
| Agathosma betulina    | Leaf                |         |          |                      | --  |
| Aloysia citrodora     | Plant               | 1.0     | 7.0      | -0.4684120689874457  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| Alpinia galanga       | Leaf Essent. Oil    |         | 945100.0 | 3.3129178351863113   | --  |
| Alpinia galanga       | Rhizome             | 3.0     | 45365.0  | 1.0                  | --  |
| Alpinia galanga       | Rhizome Essent. Oil |         | 945100.0 | 1.0                  | --  |
| Alpinia galanga       | Leaf                |         | 5235.0   | 1.7163875913621174   | --  |
| Anethum graveolens    | Shoot Essent. Oil   |         | 15600.0  | -0.4397404959457284  | --  |
| Anethum graveolens    | Seed                | 20.0    | 924.0    | -0.5501224655274027  | --  |
| Anethum graveolens    | Fruit               | 84.0    | 924.0    | -0.24028812670479283 | --  |
| Anethum graveolens    | Leaf                | 15.0    | 115.0    | -0.1311775014332694  | --  |
| Anethum graveolens    | Essential Oil       |         |          |                      | --  |
| Angelica archangelica | Root Essent. Oil    |         |          |                      | --  |
| Angelica archangelica | Fruit               |         |          |                      | --  |
| Angelica archangelica | Seed Essent. Oil    |         |          |                      | --  |

| Plant                 | Part              | Low PPM | High PPM | StdDev               | Reference   |
|-----------------------|-------------------|---------|----------|----------------------|---|
| Angelica archangelica | Root              | 7.0     | 380.0    | 1.4075966148229513   | --  |
| Aniba rosaeodora      | Essential Oil     |         |          |                      | --  |
| Apium graveolens      | Shoot             |         |          |                      | --  |
| Apium graveolens      | Et                |         | 18000.0  | 1.0                  | --  |
| Apium graveolens      | Fruit Essent. Oil | 2000.0  | 61000.0  | 0.9225422159382141   | --  |
| Apium graveolens      | Stem Essent. Oil  |         | 18000.0  | 1.0                  | --  |
| Apium graveolens      | Root Essent. Oil  |         | 18000.0  | -0.41513379237755443 | --  |
| Apium graveolens      | Seed              | 40.0    | 1830.0   | -0.02492651845909201 | --  |
| Apium graveolens      | Seed Essent. Oil  | 2000.0  | 61000.0  | -0.07142759971351088 | --  |
| Apium graveolens      | Leaf Essent. Oil  |         | 14000.0  | -0.31228842453179745 | --  |
| Aralia cordata        | Root              |         | 22.0     | -0.8221360759142902  | --  |
| Artemisia dracunculus | Essential Oil     |         |          |                      | --  |
| Artemisia capillaris  | Essential Oil     |         |          |                      | --  |
| Artemisia annua       | Plant             | 12.0    | 2040.0   | 1.7651559766358145   | --  |
| Artemisia vulgaris    | Plant             |         |          |                      | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.                  |
| Artemisia dracunculus | Shoot             | 80.0    | 1000.0   | 0.799029445609138    | --  |
| Artemisia salsoloides | Shoot             |         | 7000.0   | 7.647238814250376    | V. Kaul, P. Weyerstahl, H. Wahlberg, H. Marschall, (1992); Volatile constituents of the essential oil and the absolute of Aremisia salsoloides Willd. from Ladakh, Flavour and Fragrance journal, Vol.7, 299-305. |
| Aspalathus linearis   | Leaf Essent. Oil  |         |          |                      | --  |
| Avena sativa          | Seed              |         |          |                      | --  |
| Barosma betulina      | Leaf              |         |          |                      | --  |
| Boswellia sacra       | Essential Oil     |         | 36000.0  | 0.02796719068873602  | --  |

| Plant                      | Part              | Low PPM | High PPM | StdDev               | Reference   |
|----------------------------|-------------------|---------|----------|----------------------|---|
| Boswellia sacra            | Resin Essent. Oil |         | 2000.0   |                      | Abdel Wahab, S. M., Aboutabl, E. A., El-Zalabani, S. M., Fouad, H. A., De Pooter, H. L., El-Fallaha, B. 1987. The Essential Oil of Olibanum. Plant Med. 53 (4): 382-384.            |
| Boswellia serrata          | Essential Oil     |         |          |                      | --  |
| Bursera delpechiana        | Wood              | 75.0    | 360.0    |                      | --  |
| Calamintha nepeta          | Shoot             |         | 32.0     | -0.30581499919831534 | Kirimer, N., Baser, K.H.C., Ozek, T. and Kurkcuoglu, M. 1992. Composition of the Essential Oil of Calamintha nepeta subsp. glandulosa. J. Ess. Oil Res. 4:189-190                   |
| Calamintha nepeta          | Leaf              |         | 55.0     | -0.15282865486446534 | Akgul, A., De Pooter, H.L., and De Buyck, L.F. 1991. The Essential Oils of Calamintha nepeta subsp. glandulosa and Ziziphora clinopodioides from Turkey. J. Ess. Oil Res., 3: 7-10. |
| Camellia sinensis          | Leaf              |         |          |                      | --  |
| Canarium indicum           | Essential Oil     | 2400.0  | 6000.0   | -0.3653970753458515  | --  |
| Capsicum annuum            | Fruit             |         |          |                      | --  |
| Capsicum frutescens        | Fruit             |         |          |                      | --  |
| Carica papaya              | Fruit             |         |          |                      | --  |
| Carum carvi                | Fruit             | 180.0   | 1560.0   | -0.14096760282697604 | --  |
| Carum carvi                | Plant             |         | 150.0    | -0.3113042330188643  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| Carum carvi                | Seed              | 12.0    | 1560.0   | -0.1814418669231581  | --  |
| Centella asiatica          | Shoot             |         |          |                      | Jim Duke's personal files.  |
| Centella asiatica          | Essential Oil     |         | 6000.0   | -0.3653970753458515  | Jim Duke's personal files.  |
| Chamaemelum nobile         | Plant             |         |          |                      | --  |
| Chenopodium ambrosioides   | Plant             |         |          |                      | --  |
| Chrysanthemum x morifolium | Plant             | 24.0    | 90.0     | -0.37722360475393335 | Wealth of India.  |
| Cinnamomum verum           | Bark              | 5.0     | 20.0     |                      | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| Cinnamomum verum           | Root Bark         |         |          |                      | --  |

| Plant                | Part                 | Low PPM | High PPM | StdDev               | Reference   |
|----------------------|----------------------|---------|----------|----------------------|---|
| Cinnamomum camphora  | Leaf                 | 48.0    | 96.0     | -0.13803370001981477 | --  |
| Cinnamomum verum     | Leaf                 |         | 42.0     | -0.15751973810789113 | Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242. |
| Cistus ladaniferus   | Leaf                 | 3.0     | 210.0    | -0.09689650850054249 | --  |
| Citrus limon         | Pericarp Essent. Oil |         |          |                      | Jim Duke's personal files.  |
| Citrus sinensis      | Fruit                | 130.0   | 140.0    | -0.36272097374914564 | --  |
| Citrus limon         | Leaf Essent. Oil     | 5500.0  | 10000.0  | -0.32786228882013646 | Jim Duke's personal files.  |
| Citrus paradisi      | Pericarp             | 77.0    | 185.0    |                      | --  |
| Citrus aurantium     | Plant                |         |          |                      | --  |
| Citrus mitis         | Fruit                |         |          |                      | --  |
| Citrus limon         | Pericarp             |         |          |                      | Jim Duke's personal files.  |
| Citrus aurantium     | Leaf                 | 130.0   | 550.0    | 0.025793360942901168 | --  |
| Citrus reticulata    | Fruit                | 160.0   | 180.0    | -0.3564743999203521  | --  |
| Citrus aurantium     | Flower               |         |          |                      | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.                            |
| Citrus limon         | Petiole              |         | 75.0     |                      | --  |
| Citrus aurantiifolia | Fruit                | 70.0    | 1030.0   | -0.22373470605849002 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| Citrus paradisi      | Fruit                | 72.0    | 190.0    | -0.35491275646315373 | --  |
| Citrus limon         | Essential Oil        | 65.0    | 1270.0   | -0.42741750795730477 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| Cleonia lusitanica   | Leaf                 |         | 8.0      | -0.1697887250522355  | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442.             |
| Coleus barbatus      | Leaf Essent. Oil     |         | 3800.0   | -0.352001778467062   | Jim Duke's personal files.  |
| Coleus barbatus      | Root Essent. Oil     |         | 4000.0   | -0.6155432093874083  | Jim Duke's personal files.  |
| Coleus barbatus      | Stem Essent. Oil     |         | 3800.0   | -1.0                 | Jim Duke's personal files.  |

| Plant                  | Part             | Low PPM | High PPM | StdDev                | Reference  |
|------------------------|------------------|---------|----------|-----------------------|--|
| Coriandrum sativum     | Fruit            | 13.0    | 169.0    | -0.3581922077232703   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Coriandrum sativum     | Essential Oil    |         |          |                       | --   |
| Coriandrum sativum     | Seed Essent. Oil |         | 6500.0   | -0.6568116875911565   | --   |
| Coridothymus capitatus | Shoot            |         | 285.0    | -0.017048837487276286 | Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23. |
| Croton eluteria        | Bark             |         |          |                       | --   |
| Croton lechleri        | Plant            |         |          |                       | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.  |
| Cuminum cyminum        | Seed Essent. Oil |         | 5000.0   | -0.6729231762483394   | --   |
| Cuminum cyminum        | Seed             | 36.0    | 120.0    | -1.016190392064844    | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Cuminum cyminum        | Fruit            | 36.0    | 120.0    | -0.36584426066354236  | --   |
| Cunila origanoides     | Shoot            |         | 672.0    | 0.42466066679008363   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Cymbopogon winterianus | Plant            |         |          |                       | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Cymbopogon citratus    | Plant            | 240.0   | 3600.0   | 3.4790596417476127    | --   |
| Cymbopogon nardus      | Plant            | 9.0     | 36.0     | -0.4365510393154956   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Cymbopogon flexuosus   | Plant            |         |          |                       | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.   |
| Daucus carota          | Seed             | 10.0    | 250.0    | -0.9408311502117752   | --   |
| Dictamnus albus        | Shoot            |         | 0.7      | -0.34153982473806044  | Baser, K.H.C., Kosar, M.Malyer, H. & Ozek, T. 1994. The Essential Oil Composition of Dictamnus albus from Turkey. Planta Med. 60:481-2   |

| Plant                    | Part              | Low PPM | High PPM | StdDev               | Reference   |
|--------------------------|-------------------|---------|----------|----------------------|---|
| Dictamnus albus          | Shoot             |         | 0.7      | -0.34153982473806044 | Baser, K.H.C., Kosar, M.Malyer, H. & Ozek, T. 1994. The Essential Oil Composition of Dictamnus albus from Turkey. Planta Med. 60:481-2  |
| Dictamnus albus          | Leaf              |         |          |                      | --  |
| Dictamnus albus          | Shoot             |         | 1.0      | -0.3411974142696284  | Baser, K.H.C., Kosar, M.Malyer, H. & Ozek, T. 1994. The Essential Oil Composition of Dictamnus albus from Turkey. Planta Med. 60:481-2  |
| Dracocephalum parviflora | Plant             |         | 160.0    | -0.30031767106301943 | --  |
| Dracocephalum thymiflora | Plant             |         | 20.0     | -0.4541295384448474  | --  |
| Echinacea spp            | Fruit             |         |          |                      | Economic & Medicinal Plant Research, 5: 253.  |
| Elettaria cardamomum     | Seed Essent. Oil  |         | 271400.0 | 2.188477209267345    | --  |
| Elettaria cardamomum     | Fruit Essent. Oil | 14000.0 | 19000.0  | -0.7123427236991273  | --  |
| Elettaria cardamomum     | Fruit             | 336.0   | 3000.0   | 0.08390905500959031  | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.   |
| Elettaria cardamomum     | Root Essent. Oil  |         | 186000.0 | 1.9897792117406918   | --  |
| Elsholtzia pilosa        | Shoot             |         | 10.0     | -0.33092510021666655 | --  |
| Elsholtzia polystachya   | Leaf              |         | 1.6      | -0.17209818141822975 | Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from Elsholtzia polystachya from Two Different Locations in India. Planta Medica 58: 376-379. |
| Elsholtzia eriostachya   | Shoot             |         | 0.1      | -0.34222464567492455 | Pant, A.K., Dev, V., Parihar, R., Mathela,C.S., Rauscher, J., Vostrowsky, O. and Bestmann, H.J. 1992. The Essential Oil from Elsholtzia eriostachya var. pusilla. J. Ess. Oil Res. 4: 547-549.  |
| Elsholtzia blanda        | Shoot             |         | 4.0      | -0.33777330958530777 | Bestman, H.J., Rauscher, J., Vostrowsky O., Pant, A.K., Dev, V., Parihar, R. and Mathela, C.S. 1992. Constituents of the Essential Oil of Elsholtzia blanda Benth. (Labiatae). J. Ess. Oils Res. 4: 121-124   |

| Plant                    | Part             | Low PPM | High PPM | StdDev               | Reference  |
|--------------------------|------------------|---------|----------|----------------------|--|
| Elsholtzia polystachya   | Leaf             |         | 1.6      | -0.17209818141822975 | Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from Elsholtzia polystachya from Two Different Locations in India. Planta Medica 58: 376-379.    |
| Elsholtzia cristata      | Shoot            |         | 0.1      | -0.34222464567492455 | Kobold, U., Vostrowsky, O., Bestmann, H.J., Bisht, J.C., Pant, A.K., Melkani, A.B. and Mathela, C.S. 1987. Terpenoids from Elsholtzia Species; II. Constituents of Essential Oil from a New Chemotype of Elsholtzia cristata. Planta Medica 1987: 268-271.       |
| Ephedra sinica           | Essential Oil    |         |          |                      | Jim Duke's personal files.   |
| Ephedra sinica           | Stem             |         |          |                      | Jim Duke's personal files.   |
| Eucalyptus camaldulensis | Shoot            |         | 95.0     | -0.2339088008275823  | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.   |
| Eucalyptus maideni       | Shoot            |         | 0.1      | -0.34222464567492455 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.   |
| Eucalyptus angulosa      | Leaf             |         | 4.0      | -0.17123213528098188 | Bignell,C.M.,Dunlop,P.J.,Brophy,J. J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Symphyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7 |
| Eucalyptus globulus      | Shoot            |         | 5000.0   | 5.3645023580366304   | --   |
| Eucalyptus globulus      | Leaf Essent. Oil | 900.0   | 1000.0   | -0.3629034834688993  | --   |
| Eucalyptus blakelyi      | Shoot            |         | 2585.0   | 2.608098087158532    | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.   |

| Plant                   | Part | Low PPM | High PPM | StdDev               | Reference  |
|-------------------------|------|---------|----------|----------------------|--|
| Eucalyptus behriana     | Leaf |         | 2.7      | -0.17170124360532452 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364              |
| Eucalyptus sparsa       | Leaf |         | 345.0    | -0.04818141328035162 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364              |
| Eucalyptus leucoxydon   | Leaf |         | 8.0      | -0.1697887250522355  | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364              |
| Eucalyptus viridis      | Leaf |         | 1.5      | -0.17213426667394838 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364              |
| Eucalyptus lansdowneana | Leaf |         | 29.0     | -0.1622108213513169  | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364              |
| Eucalyptus tetraptera   | Leaf |         | 65.0     | -0.14922012929259934 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J.9(3):113-7 |



| Plant                   | Part  | Low PPM | High PPM | StdDev               | Reference   |
|-------------------------|-------|---------|----------|----------------------|---|
| Eucalyptus sideroxylon  | Shoot |         | 70.0     | -0.26244300653025415 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |
| Eucalyptus forrestiana  | Leaf  |         | 70.0     | -0.14741586650666635 | Bignell, C.M., Dunlop, P.J., Brophy, J. J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J.9(3):113-7 |
| Eucalyptus diversicolor | Shoot |         | 0.1      | -0.34222464567492455 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |
| Eucalyptus polyanthemos | Shoot |         | 40.0     | -0.2966840533734603  | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |
| Eucalyptus citriodora   | Shoot |         | 0.1      | -0.34222464567492455 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |
| Eucalyptus moluccana    | Shoot |         | 170.0    | -0.1483061837195667  | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |
| Eucalyptus astringens   | Shoot |         | 0.1      | -0.34222464567492455 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |
| Eucalyptus maculata     | Shoot |         | 0.1      | -0.34222464567492455 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |

| Plant                  | Part              | Low PPM | High PPM | StdDev               | Reference   |
|------------------------|-------------------|---------|----------|----------------------|---|
| Eucalyptus albens      | Shoot             |         | 0.1      | -0.34222464567492455 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |
| Eucalyptus brassiana   | Leaf              |         | 5.0      | -0.1708712827237953  | Singh, A. K., Gupta, K. C., & Brophy, J. J. 1991. Chemical Constituents of the Leaf Essential Oil of Eucalyptus brassiana S. T. Blake. Journal of Essential Oil Res. 3: 45-7.   |
| Eucalyptus odorata     | Leaf              |         | 4.4      | -0.17108779425810722 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364 |
| Eucalyptus citriodora  | Leaf              | 1.0     | 120.0    | -0.1293732386473364  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| Eucalyptus globulus    | Fruit Essent. Oil |         |          |                      | --  |
| Eucalyptus ochrophloia | Leaf              |         | 0.5      | -0.17249511923113497 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364 |
| Eucalyptus cuprea      | Leaf              |         | 42.0     | -0.15751973810789113 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364 |
| Eucalyptus populnea    | Leaf              |         | 1.8      | -0.17202601090679234 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364 |

| Plant                          | Part  | Low PPM | High PPM | StdDev               | Reference  |
|--------------------------------|-------|---------|----------|----------------------|--|
| <i>Eucalyptus fasciculosa</i>  | Leaf  | 0.0     | 1.3      | -0.17220643718538564 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . Flavour and Fragrance J. 10(6):359-364                        |
| <i>Eucalyptus desquamata</i>   | Leaf  |         | 31.0     | -0.1614891162369437  | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part VI. Subgenus <i>Symphyomyrtus</i> , Section <i>Adnataria</i> . Flavour and Fragrance J. 10(6):359-364                        |
| <i>Eucalyptus tereticornis</i> | Shoot |         | 18.0     | -0.3217941543918116  | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |
| <i>Eucalyptus siderophloia</i> | Shoot |         | 0.1      | -0.34222464567492455 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |
| <i>Eucalyptus erythrandra</i>  | Leaf  |         | 24.0     | -0.1640150841372499  | Bignell, C.M., Dunlop, P.J., Brophy, J. J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus <i>Eucalyptus</i> . Part I. Subgenus <i>Symphyomyrtus</i> , Section <i>Dumaria</i> , Series <i>Incrassatae</i> . Flavour and Fragrance J. 9(3):113-7 |
| <i>Eucalyptus dealbata</i>     | Shoot |         | 85.0     | -0.24532248310865104 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |
| <i>Eucalyptus oviformis</i>    | Shoot |         | 20.0     | -0.3195114179355978  | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |

| Plant                  | Part             | Low PPM | High PPM | StdDev               | Reference  |
|------------------------|------------------|---------|----------|----------------------|--|
| Eucalyptus ceratocorys | Leaf             |         | 6.0      | -0.1705104301666087  | Bignell, C.M., Dunlop, P.J., Brophy, J. J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7 |
| Eucalyptus melliodora  | Shoot            |         | 0.1      | -0.34222464567492455 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.   |
| Eucalyptus incrassata  | Leaf             |         | 100.0    | -0.13659028979106838 | Bignell, C.M., Dunlop, P.J., Brophy, J. J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7 |
| Eucalyptus botryoides  | Shoot            |         | 0.1      | -0.34222464567492455 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.   |
| Eucalyptus bosistoana  | Shoot            |         | 160.0    | -0.15971986600063542 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.   |
| Eucalyptus citriodora  | Leaf Essent. Oil |         |          |                      | --   |
| Eucalyptus intertexta  | Leaf             |         | 24.0     | -0.1640150841372499  | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364                |

| Plant                     | Part  | Low PPM | High PPM | StdDev               | Reference   |
|---------------------------|-------|---------|----------|----------------------|---|
| Eucalyptus largisparsa    | Leaf  |         | 4.6      | -0.17101562374666995 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364               |
| Eucalyptus melanophloia   | Leaf  |         | 1.0      | -0.17231469295254168 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364               |
| Eucalyptus porosa         | Leaf  |         | 240.0    | -0.08607093178494452 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Symphyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364               |
| Eucalyptus stoatei        | Leaf  |         | 75.0     | -0.14561160372073334 | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7 |
| Eucalyptus punctata       | Shoot |         | 110.0    | -0.21678827740597922 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.  |
| Eucalyptus dolichorhyncha | Leaf  |         | 19.0     | -0.1658193469231829  | Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1994. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part I. Subgenus Symphyomyrtus, Section Dumaria, Series Incrassatae. Flavour and Fragrance J. 9(3):113-7 |

| Plant                          | Part              | Low PPM | High PPM | StdDev               | Reference  |
|--------------------------------|-------------------|---------|----------|----------------------|--|
| <i>Eucalyptus cladocalyx</i>   | Shoot             |         | 17.0     | -0.3229355226199184  | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.                               |
| <i>Eucalyptus occidentalis</i> | Shoot             |         | 0.1      | -0.34222464567492455 | Zrira, S. S., Benjilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven Eucalyptus Species Grown in Morocco. Journal of Essential Oil Res. 4: 259-264.                               |
| <i>Ferula gummosa</i>          | Plant             |         |          |                      | --   |
| <i>Ficus carica</i>            | Leaf Essent. Oil  |         |          |                      | --   |
| <i>Foeniculum vulgare</i>      | Seed              | 100.0   | 2700.0   | 0.4794007154806766   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Foeniculum vulgare</i>      | Fruit             | 100.0   | 2700.0   | 0.037059751293639    | --   |
| <i>Glechoma hederacea</i>      | Plant             | 3.0     | 20.0     | -0.4541295384448474  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Gossypium sp</i>            | Plant             |         |          |                      | --   |
| <i>Hedeoma pulegioides</i>     | Plant             | 30.0    | 150.0    | -0.3113042330188643  | --   |
| <i>Hedeoma hispida</i>         | Plant             |         | 164.0    | -0.2959230462806815  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Hedeoma reverchonii</i>     | Plant             |         | 461.0    | 0.030377843807910893 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Hedeoma drummondii</i>      | Plant             | 6.0     | 232.0    | -0.22121442498093644 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Hesperis matronalis</i>     | Flower            |         |          |                      | Nielsen, J. K., Jakobsen, H. B., Friis, P., Hansen, K., Moller, J., Olsen, C. E. 1995. Asynchronous Rhythmus in the Emission of Volatiles from <i>Hesperis matronalis</i> Flowers. Phytochemistry, 38(4): 847-851. |
| <i>Houttuynia cordata</i>      | Plant             |         |          |                      | Chemical Constituents of Oriental Herbs (3 diff. books)  |
| <i>Houttuynia cordata</i>      | Shoot Essent. Oil |         |          |                      | --   |
| <i>Houttuynia cordata</i>      | Essential Oil     |         |          |                      | --   |
| <i>Humulus lupulus</i>         | Plant             |         |          |                      | --   |

| Plant                 | Part              | Low PPM | High PPM | StdDev               | Reference  |
|-----------------------|-------------------|---------|----------|----------------------|--|
| Humulus lupulus       | Strobilus         |         |          |                      | --   |
| Humulus lupulus       | Essential Oil     |         |          |                      | --   |
| Humulus lupulus       | Inflorescence     |         |          |                      | --   |
| Humulus lupulus       | Fruit             |         |          |                      | --   |
| Hyacinthus orientalis | Flower            | 0.016   | 0.23     | -0.9055293093578053  | --   |
| Hypericum perforatum  | Fruit Essent. Oil |         |          |                      | --   |
| Hypericum perforatum  | Essential Oil     |         |          |                      | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.   |
| Hypericum perforatum  | Leaf Essent. Oil  |         |          |                      | --   |
| Hypericum perforatum  | Plant             | 10.0    | 190.0    | -0.26735798519548487 | --   |
| Hypericum perforatum  | Shoot             |         |          |                      | --   |
| Hyptis suaveolens     | Shoot             |         | 1.5      | -0.340626730155575   | Mallvarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of Hyptis suaveolens (L.) Poit. J. Ess. Oil Res. 5: 321.         |
| Hyptis suaveolens     | Shoot             |         | 1.5      | -0.340626730155575   | Mallvarapu, G.R., Ramesh, S., Kaul, P.N., Bhattacharya, A.K., and Rao, B.R.R. 1993. The Essential Oil of Hyptis suaveolens (L.) Poit. J. Ess. Oil Res. 5: 321.         |
| Hyssopus officinalis  | Shoot             |         | 180.0    | -0.13689250143849796 | Tsankova, E.T., Konatchiev, A.N. and Genova, E.M. 1993. Chemical Composition of the Essential Oils of Two Hyssopus officinalis cultivars. J. Ess. Oil Res. 5: 609-611. |
| Hyssopus officinalis  | Shoot             | 27.0    | 400.0    | 0.11420850874501413  | --   |
| Hyssopus officinalis  | Shoot             |         | 180.0    | -0.13689250143849796 | Tsankova, E.T., Konatchiev, A.N. and Genova, E.M. 1993. Chemical Composition of the Essential Oils of Two Hyssopus officinalis cultivars. J. Ess. Oil Res. 5: 609-611. |
| Illicium verum        | Fruit             | 40.0    | 200.0    | -0.35335111300595534 | --   |
| Isanthus brachiatus   | Plant             |         | 58.0     | -0.4123806030126369  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Juniperus sabina      | Plant             |         |          |                      | --   |

| Plant                  | Part              | Low PPM | High PPM | StdDev               | Reference  |
|------------------------|-------------------|---------|----------|----------------------|--|
| Juniperus communis     | Fruit             | 110.0   | 1800.0   | -0.10348815985421497 | --   |
| Juniperus communis     | Leaf Essent. Oil  |         |          |                      | --   |
| Juniperus virginiana   | Leaf              |         |          |                      | --   |
| Juniperus communis     | Fruit Essent. Oil |         |          |                      | --   |
| Laurus nobilis         | Leaf              | 5.0     | 320.0    | -0.0572027272100166  | --   |
| Laurus nobilis         | Leaf Essent. Oil  |         | 46800.0  | -0.1845827373674177  | --   |
| Lavandula x hybrida    | Shoot             | 70.0    | 105.0    | -0.22249511854651358 | Tucker, A.O., Maciarelo, M.J., Angell, S., Espailat, J.R., and French, E.C. 1993. The Essential Oil of Lavandula x hybrida Balb. ex Ging., a Distinct Hybrid from L. x heterophylla Poir. (Labiatae). J. Ess. Oil Res. 5: 443-445. |
| Lavandula x intermedia | Plant             | 47.0    | 65.0     | -0.4046900096435455  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Lavandula latifolia    | Plant             | 39.0    | 74.0     | -0.3948021038832851  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Lavandula angustifolia | Flower            |         |          |                      | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Ledum palustre         | Leaf              |         |          |                      | --   |
| Lepechinia calycina    | Plant             |         | 85.0     | -0.38271688573185575 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Levisticum officinale  | Root              | 6.0     | 60.0     | -0.5854605389086612  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Lindera benzoin        | Twig              | 0.0     | 10.0     | -1.0                 | --   |
| Lindera benzoin        | Leaf              |         | 0.1      | -0.17263946025400964 | --   |
| Lindera benzoin        | Fruit             | 170.0   | 225.0    | -0.34944700436295945 | --   |
| Lippia javanica        | Essential Oil     |         |          |                      | Van Wyk, B. E. and Gericke, N. 2000. People's Plants. Briza Publications, Arcadia, South Africa. 351 pp.   |
| Litsea glaucescens     | Shoot             | 40.0    | 50.0     | -0.2852703710923916  | Tucker, et al, EB46(1):21-24.1992  |
| Lycopus virginicus     | Plant             | 6.0     | 14.0     | -0.4607214756183543  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |



| Plant  | Part             | Low PPM | High PPM | StdDev               | Reference   |
|--|------------------|---------|----------|----------------------|---|
| <i>Lycopus uniflorus</i>                       | Plant            | 12.0    | 18.0     | -0.4563268508360163  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Magnolia denudata</i>                       | Leaf             |         |          |                      | --  |
| <i>Magnolia denudata</i>                       | Bark             |         |          |                      | --  |
| <i>Magnolia denudata</i>                       | Flower           |         |          |                      | --  |
| <i>Magnolia denudata</i>                       | Bulb             |         |          |                      | --  |
| <i>Magnolia denudata</i>                       | Twig             |         |          |                      | --  |
| <i>Melaleuca alternifolia</i>                  | Essential Oil    | 8000.0  | 14000.0  | -0.26049993773662816 | --  |
| <i>Melaleuca alternifolia</i>                  | Root Essent. Oil |         | 22000.0  | -0.3578739589461676  | --  |
| <i>Melaleuca linariifolia</i>                  | Leaf             | 150.0   | 200.0    | -0.10050503407240848 | Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.  |
| <i>Melaleuca alternifolia</i>                  | Leaf             | 52.0    | 130.0    | -0.1257647130754704  | --  |
| <i>Melissa officinalis</i>                     | Shoot            | 1.0     | 8.0      | -0.3332078366728803  | Deutsche Apot. Ztit. 129(4):155-163. W. Schulze et al. Die Melisse.   |
| <i>Mentha pulegium</i>                         | Plant            | 27.0    | 600.0    | 0.18309105499415446  | --  |
| <i>Mentha aquatica</i>                         | Leaf             |         |          |                      | Jim Duke's personal files.  |
| <i>Mentha pulegium</i>                         | Essential Oil    | 2700.0  | 4500.0   | -0.38506528864758083 | --  |
| <i>Mentha x piperita</i>                       | Leaf             | 1.0     | 10.0     | -0.1690670199378623  | --  |
| <i>Mentha longifolia</i>                       | Shoot            | 17.0    | 550.0    | 0.2854137429610451   | --  |
| <i>Mentha spicata</i>                          | Essential Oil    |         |          |                      | --  |
| <i>Mentha spicata</i>                          | Plant            | 21.0    | 1350.0   | 1.007083201682519    | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.                        |
| <i>Mentha arvensis</i> var. <i>piperascens</i> | Leaf             | 10.0    | 2485.0   | 0.7240430590989703   | --  |
| <i>Mentha spicata</i>                          | Shoot            |         |          |                      | --  |
| <i>Micromeria thymifolia</i>                   | Leaf             |         | 35.0     | -0.1600457060081973  | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393. |

| Plant                 | Part  | Low PPM | High PPM | StdDev               | Reference  |
|-----------------------|-------|---------|----------|----------------------|--|
| Micromeria dalmatica  | Leaf  |         | 35.0     | -0.1600457060081973  | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.  |
| Micromeria fruticosa  | Shoot |         | 120.0    | -0.2053745951249105  | Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of Micromeria fruticosa (L.) Druce subsp. barbata (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res 3: 477-479. |
| Micromeria teneriffae | Leaf  |         | 170.0    | -0.11133061078800645 | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.  |
| Micromeria croatica   | Leaf  |         | 25.0     | -0.16365423158006331 | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.  |
| Micromeria myrtifolia | Shoot |         | 0.1      | -0.34222464567492455 | Ozek, T., Kirimer, N., and Baser, K.H.C. 1992. Composition of the Essential Oil of Micromeria myrtifolia Boiss. et Hohen. J. Ess. Oil Res., 4: 79-80.  |
| Micromeria fruticosa  | Leaf  |         | 300.0    | -0.06441977835374858 | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.  |
| Micromeria juliana    | Leaf  |         | 10.0     | -0.1690670199378623  | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.  |
| Micromeria congesta   | Leaf  | 40.0    | 65.0     | -0.14922012929259934 | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of Micromeria congesta. J. Ess. Oil Res., 3: 387-393.  |
| Micromeria fruticosa  | Shoot |         | 120.0    | -0.2053745951249105  | Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of Micromeria fruticosa (L.) Druce subsp. barbata (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res 3: 477-479. |

| Plant                       | Part   | Low PPM | High PPM | StdDev               | Reference  |
|-----------------------------|--------|---------|----------|----------------------|--|
| <i>Minthostachys mollis</i> | Shoot  | 0.4     | 0.5      | -0.34176809838368183 | Alkire, B.H., Tucker, A.O., and Maciarelo, M.J. 1994. Tipo ( <i>Minthostachys mollis</i> (Lamiaceae): An Ecuadorian Mint. Econ. Bot. 48(1): 60-64.   |
| <i>Moldavica thymiflora</i> | Plant  |         | 20.0     | -0.4541295384448474  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Moldavica parviflora</i> | Plant  |         | 160.0    | -0.30031767106301943 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Monarda fistulosa</i>    | Plant  | 3.0     | 1860.0   | 1.567397861430607    | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Monarda didyma</i>       | Flower |         | 30.0     | -0.48499255419406617 | Flavour and Fragrance Journal, 6: 80.  |
| <i>Monarda citriodora</i>   | Leaf   |         | 15.0     | -0.1672627571519293  | Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9. |
| <i>Monarda media</i>        | Plant  |         | 140.0    | -0.32229079497470914 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Monarda didyma</i>       | Plant  | 10.0    | 485.0    | 0.05674559250193856  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Monarda clinopodia</i>   | Plant  |         | 10.0     | -0.46511610040069223 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Monarda citriodora</i>   | Flower |         | 205.0    | 1.9870911593986225   | Collins, J.E., Bishop, C.D., Deans, S.G. and Svoboda, K.P. 1994. Composition of the Essential Oil from the Leaves and Flowers of <i>Monarda citriodora</i> var. <i>citriodora</i> grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9. |
| <i>Monarda lindheimeri</i>  | Plant  |         | 16.0     | -0.4585241632271853  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| <i>Monarda didyma</i>       | Leaf   | 25.0    | 40.0     | -0.15824144322226433 | --   |
| <i>Monarda citriodora</i>   | Plant  |         | 14.0     | -0.4607214756183543  | --   |
| <i>Murraya koenigii</i>     | Leaf   |         | 53.0     | -0.15355035997883854 | --   |
| <i>Myristica fragrans</i>   | Seed   | 740.0   | 5920.0   | 2.345991167533613    | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |

| Plant                    | Part              | Low PPM | High PPM | StdDev               | Reference  |
|--------------------------|-------------------|---------|----------|----------------------|--|
| Myristica fragrans       | Essential Oil     | 16000.0 | 37000.0  | 0.041079332889888936 | --   |
| Myristica fragrans       | Seed Essent. Oil  | 25000.0 | 38000.0  | -0.3184704257903154  | --   |
| Myrrhis odorata          | Leaf Essent. Oil  |         | 19000.0  | -0.2928210941713737  | --   |
| Myrtus communis          | Plant             | 2.0     | 6.0      | -0.46951072518303016 | --   |
| Nepeta racemosa          | Shoot             |         | 24.0     | -0.3149459450231703  | Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.                                     |
| Nepeta cataria           | Plant             | 8.0     | 40.0     | -0.4321564145331576  | --   |
| Nepeta racemosa          | Shoot             |         | 24.0     | -0.3149459450231703  | Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.                                     |
| Ocimum basilicum         | Essential Oil     |         | 1300.0   | -0.4270241436912702  | --   |
| Ocimum kilimandscharicum | Leaf              | 8.0     | 15.0     | -0.1672627571519293  | Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum kilimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.  |
| Ocimum basilicum         | Leaf              | 2.0     | 80.0     | -0.14380734093480035 | --   |
| Ocimum gratissimum       | Shoot             |         | 75.0     | -0.2567361653897198  | Vostrowsky, O., Garbe, W., Bestmann, H.J. and Maia, J.G.S. 1990. Essential Oil of Alfavaca, Ocimum gratissimum, from Brazilian Amazon. Zeitschr. Naturforschung 45(C): 1073-6. |
| Ocimum gratissimum       | Flower            | 8.0     | 10.0     | -0.7675164071760877  | Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.   |
| Ocimum basilicum         | Leaf Essent. Oil  | 1000.0  | 8600.0   | -0.3333131413210551  | --   |
| Ocimum basilicum         | Plant             | 2.0     | 80.0     | -0.3882101667097782  | --   |
| Ocimum kilimandscharicum | Flower            |         | 0.1      | -0.9073657144021885  | Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum kilimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128.  |
| Ocimum gratissimum       | Plant             | 15.0    | 480.0    | 0.051252311524016124 | --   |
| Ocimum basilicum         | Shoot Essent. Oil | 2600.0  | 18000.0  | -0.40439631676723714 | --   |

| Plant              | Part              | Low PPM | High PPM | StdDev               | Reference   |
|--------------------|-------------------|---------|----------|----------------------|---|
| Ocimum canum       | Shoot             |         |          |                      | =ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp |
| Ocimum tenuiflorum | Leaf              |         | 8.0      | -0.1697887250522355  | Brophy, J.J., Goldsack, R.J., and Clarkson, J.R. 1993. The Essential Oil of Ocimum tenuiflorum L. (Lamiaceae) Growing in Northern Australia, J. Ess. Oil Res. 5: 459-461.   |
| Ocimum gratissimum | Leaf              | 24.0    | 47.0     | -0.15571547532195812 | Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.  |
| Origanum vulgare   | Shoot Essent. Oil | 6100.0  | 180900.0 | 1.994589844972855    | --  |
| Origanum syriacum  | Shoot             |         | 565.0    | 0.3025342663826482   | Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.  |
| Origanum sipyleum  | Shoot             |         | 35.0     | -0.3023908945139947  | Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of Origanum sipyleum of Turkish Origin. J. Ess. Oil Res. 4: 139-142.   |
| Origanum majorana  | Essential Oil     |         |          |                      | --  |
| Origanum onites    | Shoot             |         | 330.0    | 0.03431273277753301  | Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.  |
| Origanum vulgare   | Plant             |         | 645.0    | 0.23253058379545632  | Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.   |
| Origanum syriacum  | Shoot             |         |          |                      | Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.  |

| Plant                 | Part  | Low PPM | High PPM | StdDev               | Reference  |
|-----------------------|-------|---------|----------|----------------------|--|
| Origanum sipyleum     | Shoot |         | 1950.0   | 1.8833292623106677   | Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of Origanum sipyleum of Turkish Origin. J. Ess. Oil Res. 4: 139-142.  |
| Origanum sipyleum     | Shoot |         | 445.0    | 0.16557007900982343  | Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of Origanum sipyleum of Turkish Origin. J. Ess. Oil Res. 4: 139-142.  |
| Origanum minutiflorum | Shoot | 40.0    | 220.0    | -0.09123777231422305 | Baser, K.H.C., Tumen, G., Sezik, E. 1991. The Essential Oil of Origanum minutiflorum O. Schwarz and P.H. Davis. J. Ess. Oil Res. 3: 445-446.   |
| Origanum onites       | Plant |         | 41.0     | -0.43105775833757315 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Origanum vulgare      | Plant | 8.0     | 180.0    | -0.2783445471513297  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Origanum vulgare      | Plant |         | 6.0      | -0.46951072518303016 | Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.                          |
| Origanum vulgare      | Shoot |         | 585.0    | 0.32536163094478565  | Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23. |
| Origanum syriacum     | Shoot |         | 565.0    | 0.3025342663826482   | Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.   |
| Origanum sipyleum     | Shoot |         | 445.0    | 0.16557007900982343  | Baser, K.H.C., Ozek, T., Kurkcuoglu, M. and Tumen, G. 1992. Composition of the Essential Oil of Origanum sipyleum of Turkish Origin. J. Ess. Oil Res. 4: 139-142.  |
| Origanum onites       | Shoot |         | 170.0    | -0.1483061837195667  | Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Frag. J. 8: 331-7.                           |

| Plant                  | Part              | Low PPM | High PPM | StdDev               | Reference  |
|------------------------|-------------------|---------|----------|----------------------|--|
| Origanum majorana      | Plant             | 18.0    | 103.0    | -0.36294107421133504 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Origanum vulgare       | Plant             |         | 5.0      | -0.47060938137861463 | Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.  |
| Origanum vulgare       | Plant             |         | 6.0      | -0.46951072518303016 | Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.  |
| Pastinaca sativa       | Root              |         |          |                      | --   |
| Pelargonium graveolens | Essential Oil     | 1.0     | 2.0      | -0.44404370426836665 | --   |
| Pelargonium citrosum   | Shoot             |         | 4.0      | -0.33777330958530777 | Matsuda, B. M., et al. 1996. Essential Oil Analysis and Field Evaluation of the Citrosa Plant 'Pelargonium citrosum' as a Repellent Against Populations of Aedes Mosquitoes. J. Am. Mosq. Contr. Assoc. 12(1):69-74.                     |
| Perilla frutescens     | Leaf Essent. Oil  |         |          |                      | Kang, R., Helms, R., Stout, M.J., Jaber, H., Chen, Z., and Nakatsu, T. 1992. Antimicrobial Activity of the Volatile Constituents of Perilla frutescens and Its Synergistic Effects with Polygodial. J. Agric. Food Chem., 40: 2328-2330. |
| Perilla frutescens     | Shoot Essent. Oil |         | 9000.0   | -0.5369369886865792  | Nguyen, X. D., La, D. M., Lu'u, D. C., Leclercq, P. A. 1995. Essential Oil Constituents from the Aerial Parts of Perilla frutescens (L.) Britton. J. Essent. Oil Res., 7(4): 429-432.  |
| Petroselinum crispum   | Seed Essent. Oil  |         | 24000.0  | -0.4688443199240226  | --   |
| Petroselinum crispum   | Seed              | 168.0   | 1680.0   | -0.11187948982801763 | --   |
| Petroselinum crispum   | Fruit Essent. Oil |         | 5200.0   | -1.2495192038656824  | --   |
| Petroselinum crispum   | Leaf              | 18.0    | 255.0    | -0.08065814342714553 | --   |
| Phellodendron amurense | Fruit             |         |          |                      | --   |
| Picea mariana          | Twig              |         | 161.0    | 1.0                  | --   |
| Pilocarpus jaborandi   | Leaf              |         | 25.0     | -0.16365423158006331 | --   |

| Plant                | Part                 | Low PPM | High PPM | StdDev               | Reference  |
|----------------------|----------------------|---------|----------|----------------------|--|
| Pimenta dioica       | Leaf                 |         | 20.0     | -0.1654584943659963  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Pimenta dioica       | Fruit                |         | 45.0     | -0.3775565865925302  | --   |
| Pimenta racemosa     | Leaf                 | 735.0   | 23800.0  | 8.415615315531328    | --   |
| Pinus sylvestris     | Twig                 |         |          |                      | --   |
| Pinus sylvestris     | Leaf Essent. Oil     |         | 34500.0  | -0.23247237005406013 | --   |
| Pinus mugo           | Leaf                 |         |          |                      | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.                                       |
| Pinus sylvestris     | Flower               |         |          |                      | --   |
| Pinus sylvestris     | Essential Oil        |         |          |                      | --   |
| Piper cubeba         | Fruit                |         |          |                      | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.                                       |
| Piper nigrum         | Fruit Essent. Oil    | 22300.0 | 64000.0  | 1.0393197116265955   | --   |
| Piper auritum        | Leaf                 |         |          |                      | Tramil   |
| Piper cubeba         | Fruit Essent. Oil    |         |          |                      | --   |
| Piper nigrum         | Seed Essent. Oil     |         |          |                      | --   |
| Piper nigrum         | Fruit                |         |          |                      | --   |
| Pistacia lentiscus   | Plant                |         |          |                      | --   |
| Porophyllum ruderale | Plant                | 35.0    | 55.0     | -0.41567657159939037 | Loayza, I., de Groot, W., Lorenzo, D. et al. 1999. Composition of the essential oil of Porophyllum ruderale (Jacq.) Cass. from Bolivia. Flav. & Fragr. J. 14: 393-8. |
| Prunella vulgaris    | Plant                |         | 300.0    | -0.14650580368119137 | --   |
| Prunella vulgaris    | Essential Oil        |         |          |                      | --   |
| Prunus armeniaca     | Essential Oil        |         |          |                      | --   |
| Psidium guajava      | Pericarp Essent. Oil |         |          |                      | --   |
| Psidium guajava      | Essential Oil        |         |          |                      | --   |
| Psidium guajava      | Fruit                |         | 27000.0  | 3.8318533522856955   | --   |



| Plant                               | Part             | Low PPM | High PPM | StdDev                | Reference   |
|-------------------------------------|------------------|---------|----------|-----------------------|---|
| <i>Ptychopetalum olacoides</i>      | Root Essent. Oil |         | 5000.0   | -0.6012282510295616   | Uber Bucek, E., Fournier, G., Dadoun, H. 1987. Volatile Constituents of <i>Ptychopetalum olacoides</i> Root Oil. <i>Planta Med.</i> 53, 2: 231. |
| <i>Pycnanthemum virginianum</i>     | Shoot            | 6.0     | 261.0    | -0.044441674961841246 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum tenuifolium</i>     | Shoot            | 16.0    | 2560.0   | 2.57956388145586      | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum pilosum</i>         | Leaf             | 10.0    | 105.0    | -0.1347860270051354   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum montanum</i>        | Shoot            | 7.0     | 16.0     | -0.3240768908480253   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum curvipes</i>        | Shoot            |         | 63.0     | -0.2704325841270023   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum beadleii</i>        | Shoot            |         | 28.0     | -0.3103804721107428   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum verticillatum</i>   | Shoot            |         | 126.0    | -0.19852638575626924  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum setosum</i>         | Shoot            | 40.0    | 341.0    | 0.04686778328670861   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum pilosum</i>         | Flower           | 10.0    | 105.0    | 0.5744718944885145    | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum loomisii</i>        | Shoot            | 495.0   | 756.0    | 0.520535597951061     | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum clinopodioides</i>  | Shoot            | 84.0    | 352.0    | 0.059422833795884214  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum torreyi</i>         | Shoot            |         | 90.0     | -0.2396156419681167   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum pycnanthemoides</i> | Shoot            | 273.0   | 406.0    | 0.12105671811365537   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum muticum</i>         | Shoot            | 29.0    | 200.0    | -0.11406513687636051  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Pycnanthemum incanum</i>         | Shoot            | 44.0    | 114.0    | -0.21222280449355174  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |

| Plant                            | Part                | Low PPM  | High PPM | StdDev               | Reference   |
|----------------------------------|---------------------|----------|----------|----------------------|---|
| <i>Pycnanthemum californicum</i> | Shoot               |          | 108.0    | -0.21907101386219296 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| <i>Ribes nigrum</i>              | Leaf                |          |          |                      | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.  |
| <i>Ribes nigrum</i>              | Fruit               |          |          |                      | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.  |
| <i>Rosa centifolia</i>           | Essential Oil       |          |          |                      | --  |
| <i>Rosa gallica</i>              | Essential Oil       |          |          |                      | --  |
| <i>Rosa damascena</i>            | Essential Oil       |          |          |                      | --  |
| <i>Rosmarinus officinalis</i>    | Shoot               |          | 20.0     | -0.3195114179355978  | Tucker, A. O. and Maciarelo, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986.   |
| <i>Rosmarinus officinalis</i>    | Leaf                |          | 7.0      | -0.1701495776094221  | Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, M.H. 1994. Analysis and Biological Activity of the Essential Oil of <i>Rosmarinus officinalis</i> L. from Egypt. Flavour and Fragrance J. 9: 29-33.       |
| <i>Rosmarinus tomentosus</i>     | Shoot               | 55.0     | 80.0     | -0.2510293242491854  | Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246. |
| <i>Rosmarinus officinalis</i>    | Essential Oil       | 179000.0 | 295000.0 | 3.424012020787341    | --  |
| <i>Rosmarinus eriocalyx</i>      | Shoot               | 38.0     | 70.0     | -0.26244300653025415 | Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the <i>Rosmarinus eriocalyx-tomentosus</i> Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246. |
| <i>Rosmarinus officinalis</i>    | Resin, Exudate, Sap |          |          |                      | --  |

| Plant                      | Part              | Low PPM | High PPM | StdDev               | Reference  |
|----------------------------|-------------------|---------|----------|----------------------|--|
| Rosmarinus officinalis     | Shoot             | 50.0    | 100.0    | -0.22820195968704796 | Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246. |
| Rosmarinus officinalis     | Plant             | 0.1     | 5605.0   | 5.681865313894507    | --   |
| Rosmarinus x mendizabalii  | Shoot             | 4.0     | 55.0     | -0.27956352995185724 | Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246. |
| Rosmarinus officinalis     | Shoot Essent. Oil |         | 3800.0   | -0.6135160435733102  | --   |
| Rosmarinus officinalis     | Shoot             |         |          |                      | Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246. |
| Rosmarinus officinalis     | Leaf              |         | 7.0      | -0.1701495776094221  | Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaïd, M.H. 1994. Analysis and Biological Activity of the Essential Oil of Rosmarinus officinalis L. from Egypt. Flavour and Fragrance J. 9: 29-33.       |
| Rosmarinus x lavandulaceus | Shoot             | 19.0    | 110.0    | -0.21678827740597922 | Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246. |
| Rosmarinus eriocalyx       | Shoot             | 38.0    | 70.0     | -0.26244300653025415 | Soriano Cano, M.C., Sotomayor Sanchez, J.A., Sanchez Gomez, P. and Garcia Vallejo, M.C. 1993. Essential Oils of the Rosmarinus eriocalyx-tomentosus Complex in Southeast Spain. J. Ess. Oil Res. 5: 243-246. |
| Rosmarinus officinalis     | Leaf Essent. Oil  |         | 14000.0  | -0.31228842453179745 | --   |
| Salvia officinalis         | Plant             | 0.0     | 336.0    | -0.10695418064014987 | --   |
| Salvia officinalis         | Essential Oil     | 3700.0  | 10400.0  | -0.3077036496607786  | --   |

| Plant                      | Part               | Low PPM | High PPM | StdDev               | Reference   |
|----------------------------|--------------------|---------|----------|----------------------|---|
| Salvia canariensis         | Leaf               |         | 0.1      | -0.17263946025400964 | Casnigueral,S., Iglesias,J., Vila,R., Virgili,A. and Ibanez,C.1994. The Essential Oil from Leaves of Salvia canariensis L. Flav. & Frag. J. 9:201-204. S. Canigueral, Facultat de Farmacia, Universitat de Barcelona, Ave.Diagonal 643,E-08028, Barcelone Spain |
| Salvia triloba             | Plant              | 150.0   | 900.0    | 0.5126879136695003   | --  |
| Salvia officinalis         | Leaf Essent. Oil   | 9000.0  | 15700.0  | -0.3056695322092534  | --  |
| Salvia gilliesii           | Shoot              |         | 29.0     | -0.3092391038826359  | Velasco-Negueruela, A. et al. 1993. The Essential Oil of Salvia gilliesii Benth. J. Ess. Oil Res. 5: 319-320.   |
| Salvia sclarea             | Plant              | 1.0     | 42.0     | -0.4299591021419887  | Flavour and Fragrance Journal, 6: 154.  |
| Salvia officinalis         | Et                 |         | 8000.0   | -1.0                 | --  |
| Salvia dorisiana           | Shoot              | 10.5    | 12.1     | -0.3285282269376421  | Tucker, A.O. & Maciarelo, M.J. 1994. The Essential Oil of Salvia dorisiana Standley. J. Ess. Oil Res. 6: 97-8.  |
| Sambucus nigra             | Flower Essent. Oil |         |          |                      | --  |
| Santolina chamaecyparissus | Plant              |         |          |                      | --  |
| Sassafras albidum          | Leaf               | 0.0     | 5.4      | -0.17072694170092062 | --  |
| Satureja obovata           | Leaf               |         | 215.0    | -0.09509224571460949 | Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.   |
| Satureja odora             | Shoot              |         | 0.0      | -0.34233878249773525 | Zygadlo, J.A., Merino, E.F., Maestri, D.M., Guzman, C.A. and Espinar, L.A. 1993. The Essential Oils of Satureja odora and Satureja parvifolia from Argentina. J. Ess. Oil Res. 5: 549-51.   |
| Satureja cilicica          | Shoot              |         | 150.0    | -0.17113354828170416 | Tumen, G. Baser, K.H.C. and Kirimer, N. 1993. The Essential Oil of Satureja cilicica P.H. Davis. J. Ess. Oil Res. 5: 547-548.   |
| Satureja hortensis         | Plant              |         |          |                      | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.  |
| Satureja obovata           | Shoot              | 1.0     | 30.0     | -0.3080977356545291  | Fitoterapia No.60: 277.   |

| Plant                | Part             | Low PPM | High PPM | StdDev               | Reference  |
|----------------------|------------------|---------|----------|----------------------|--|
| Satureja obovata     | Leaf             |         |          |                      | Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.  |
| Satureja thymbra     | Shoot            |         | 590.0    | 0.33106847208532003  | Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23. |
| Satureja montana     | Essential Oil    |         | 11300.0  | -0.295902721679741   | --   |
| Satureja grandiflora | Shoot            |         | 4.0      | -0.33777330958530777 | Carnat, A., Chossegros, A., and Lamaison, J. 1991. The Essential Oil of Satureja grandiflora (L.) Scheele from France. J. Ess. Oil Res., 3: 361-362  |
| Satureja obovata     | Leaf             |         | 70.0     | -0.14741586650666635 | Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.  |
| Satureja douglasii   | Plant            |         | 104.0    | -0.3618424180157505  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.   |
| Satureja obovata     | Leaf             |         | 70.0     | -0.14741586650666635 | Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.  |
| Satureja parvifolia  | Shoot            |         | 22.0     | -0.31722868147938404 | Zygodlo, J.A., Merino, E.F., Maestri, D.M., Guzman, C.A. and Espinar, L.A. 1993. The Essential Oils of Satureja odora and Satureja parvifolia from Argentina. J. Ess. Oil Res. 5: 549-51.                      |
| Satureja cuneifolia  | Shoot            | 50.0    | 420.0    | 0.13703587330715158  | Tumen, G. 1991. The Volatile Constituents of Satureja cuneifolia. J. Ess. Oil Res., 3: 365-366.  |
| Satureja montana     | Plant            | 7.0     | 295.0    | -0.1519990846591138  | --   |
| Saussurea lappa      | Root Essent. Oil |         |          |                      | --   |
| Schinus molle        | Fruit            |         |          |                      | --   |

| Plant                      | Part              | Low PPM | High PPM | StdDev               | Reference   |
|----------------------------|-------------------|---------|----------|----------------------|---|
| Sideritis athoa            | Shoot             |         | 975.0    | 0.7704952399064662   | Ozek, T., Baser, K.H.C. and Tumen, G. 1993. The Essential Oil of Sideritis athoa Papanikolaou Et Kokkini. J. Ess. Oil Res. 5: 669-670.  |
| Sideritis mugronensis      | Leaf              | 15.0    | 20.0     | -0.1654584943659963  | Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of Sideritis mugronensis Flower and Leaf. J. Ess. Oil Res., 3: 395-397.  |
| Sideritis mugronensis      | Flower            | 15.0    | 100.0    | 0.5038409312430092   | Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of Sideritis mugronensis Flower and Leaf. J. Ess. Oil Res., 3: 395-397.  |
| Sideritis germanicolpitana | Plant             | 1285.0  | 1625.0   | 1.3092136554682527   | J. Essential Oil, 4: 533.   |
| Sideritis pauli            | Shoot             |         | 22.0     | -0.31722868147938404 | Burzaco, A., Velasco-Negueruela, A. and Perez-Alonso, M.J. 1992. Essential Oil Analysis of Sideritis pauli Pau. FFJ7: 47-8. 1992.   |
| Skimmia arborescens        | Leaf              |         |          |                      | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.  |
| Stachys germanica          | Plant             |         | 7.0      | -0.4684120689874457  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| Stevia rebaudiana          | Flower            |         |          |                      | Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.                            |
| Stevia rebaudiana          | Leaf              |         |          |                      | Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.                            |
| Tagetes lucida             | Shoot             |         | 75.0     | -0.2567361653897198  | Bicchi, C., Fresia, M., Rubiolo, P., Monti, D., Franz, C., Goehler, I. 1997. Constituents of Tagetes lucida Cav. ssp. lucida essential oil. Flavor & Fragrance, 12(1): 47-52. |
| Tagetes lucida             | Leaf              | 40.0    | 50.0     | -0.15463291765039833 | Tramil  |
| Tamarindus indica          | Fruit Essent. Oil |         |          |                      | --  |
| Tanacetum parthenium       | Fruit Essent. Oil |         |          |                      | --  |

| Plant                     | Part  | Low PPM | High PPM | StdDev               | Reference   |
|---------------------------|-------|---------|----------|----------------------|---|
| Teucrium salviastrum      | Shoot |         | 1.05     | -0.3411403458582231  | Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9. |
| Teucrium kotschyianum     | Leaf  |         | 0.0      | -0.17267554550972827 | Arnold, N., Bellomaria, B., Velentini G. and Razaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.       |
| Teucrium cyprium          | Leaf  |         | 39.0     | -0.15860229577945092 | Arnold, N., Bellomaria, B., Velentini G. and Razaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. <i>J. Ethnopharm.</i> 35: 105-113.       |
| Teucrium polium           | Shoot |         | 15.0     | -0.32521825907613217 | Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian Teucrium Species. <i>J. Ess. Oil Res.</i> 5: 397-402.                        |
| Teucrium pseudoscorodonia | Shoot |         | 0.75     | -0.34148275632665515 | Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9. |
| Teucrium gnaphalodes      | Shoot |         | 8.0      | -0.3332078366728803  | Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian Teucrium Species. <i>J. Ess. Oil Res.</i> 5: 397-402.                        |
| Teucrium asiaticum        | Shoot |         | 1.24     | -0.34092348589488275 | Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9. |
| Teucrium oxylepis         | Shoot |         | 2.02     | -0.3400332186769594  | Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9. |
| Teucrium polium           | Plant |         |          |                      | Rizk, A.F.M., <i>The Phytochemistry of the Flora of Qatar</i> , Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.                         |

| Plant                   | Part  | Low PPM | High PPM | StdDev                | Reference  |
|-------------------------|-------|---------|----------|-----------------------|--|
| Teucrium micropodioides | Leaf  |         | 24.0     | -0.1640150841372499   | Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.   |
| Teucrium divaricatum    | Leaf  |         | 15.0     | -0.1672627571519293   | Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.   |
| Teucrium scorodonia     | Shoot |         |          |                       | Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.   |
| Teucrium oxylepis       | Shoot |         | 1.48     | -0.3406495575201371   | Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six Teucrium Species from the Iberian Peninsula and the Balearic Islands. Phytochemistry 29(4): 1165-9.   |
| Thymus saturejoides     | Shoot |         | 50.0     | -0.2852703710923916   | Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjlali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of Thymus broussonettii, T. zygis and T. saturejoides. J. Ess. Oil Res. 5: 45-53. |
| Thymus capitatus        | Shoot |         | 21.0     | -0.31837004970749094  | Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Fragr. J. 8: 331-7.                                |
| Thymus funkii           | Shoot |         | 280.0    | -0.022755678627810652 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.   |
| Thymus zygis            | Shoot |         | 42.0     | -0.2944013169172466   | Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. Thymus zygis Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. JEO5: 153-8.                         |



| Plant                | Part          | Low PPM | High PPM | StdDev                | Reference   |
|----------------------|---------------|---------|----------|-----------------------|---|
| Thymus longicaulis   | Shoot         |         | 115.0    | -0.21108143626544484  | Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.                      |
| Thymus vulgaris      | Essential Oil |         | 17500.0  | -0.21460744003259294  | --  |
| Thymus orospedanus   | Plant         |         | 858.0    | 0.4665443534549519    | J. Nat. Prod.   |
| Thymus riatarum      | Shoot         |         | 215.0    | -0.09694461345475741  | Iglesias, J., Vila, R., Canigual, S., Bellakdhar, and I Idrissi, A. 1991. Analysis of the Essential Oil of Thymus riatarum. J. Ess. Oil Res. 3: 43-4.   |
| Thymus capitatus     | Plant         | 150.0   | 180.0    | -0.2783445471513297   | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| Thymus funkii        | Shoot         |         | 280.0    | -0.022755678627810652 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.  |
| Thymus zygis         | Shoot         | 0.1     | 200.0    | -0.11406513687636051  | De Cunha, A.P. and Salguiero, L.R. 1991. The Chemical Polymorphism of Thymus zygis ssp. sylvestris from Central Portugal. J. Ess. Oil Res. 3: 409-12.   |
| Thymus longicaulis   | Shoot         |         | 4.0      | -0.33777330958530777  | Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.                      |
| Thymus vulgaris      | Plant         | 36.0    | 676.0    | 0.2665889258585754    | --  |
| Thymus mastichina    | Plant         | 20.0    | 90.0     | -0.37722360475393335  | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.  |
| Thymus broussonettii | Shoot         |         | 110.0    | -0.21678827740597922  | Tantaoui-Elaraki, A., Lattaoui, N., Errifi, A. and Benjilali, B. 1993. Composition and Antimicrobial Activity of the Essential Oils of Thymus broussonettii, T. zygis and T. saturejoides. J. Ess. Oil Res. 5: 45-53. |

| Plant                    | Part                | Low PPM | High PPM | StdDev               | Reference   |
|--------------------------|---------------------|---------|----------|----------------------|---|
| Thymus zygis             | Shoot               |         | 42.0     | -0.2944013169172466  | Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. Thymus zygis Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. JEO5: 153-8.  |
| Thymus longicaulis       | Shoot               |         | 4.0      | -0.33777330958530777 | Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.                                    |
| Thymus serpyllum         | Plant               | 13.0    | 229.0    | -0.2245103935676899  | --  |
| Trachyspermum ammi       | Fruit               | 90.0    | 120.0    | -0.36584426066354236 | --  |
| Tsuga canadensis         | Branches            | 104.0   | 120.0    |                      | --  |
| Umbellularia californica | Plant               | 130.0   | 520.0    | 0.09519855934739557  | --  |
| Vaccinium corymbosum     | Fruit               |         |          |                      | --  |
| Valeriana officinalis    | Root                |         |          |                      | --  |
| Valeriana officinalis    | Plant               |         |          |                      | --  |
| Valeriana officinalis    | Root Essent. Oil    |         |          |                      | --  |
| Vitex agnus-castus       | Flower              |         |          |                      | Jim Duke's personal files.  |
| Vitex agnus-castus       | Leaf Essent. Oil    |         | 18000.0  | -0.2967145602434585  | Jim Duke's personal files.  |
| Vitex agnus-castus       | Leaf                |         | 3.0      | -0.17159298783816848 | Ekundayo, O., Laakso, I., Holopainen, M., Hiltunen, R., Oguntimein, B., and Kauppinen, V. 1990. The Chemical Composition and Antimicrobial Activity of the Leaf Oil of Vitex agnus-castus L. J. Essential Oil Research, 2: 115-119. |
| Vitex agnus-castus       | Fruit               |         |          |                      | Jim Duke's personal files.  |
| Zea mays                 | Seed Essent. Oil    |         |          |                      | --  |
| Zea mays                 | Seed                |         |          |                      | --  |
| Zea mays                 | Husk Essent. Oil    |         |          |                      | --  |
| Zea mays                 | Leaf                |         |          |                      | --  |
| Zingiber officinale      | Rhizome Essent. Oil |         | 19000.0  | -1.0                 | --  |
| Zingiber officinale      | Rhizome             | 2.0     | 950.0    | -1.0                 | --  |

| Plant               | Part | Low PPM | High PPM | StdDev | Reference |
|---------------------|------|---------|----------|--------|-----------|
| Zingiber officinale | Rf   | 2.0     | 950.0    |        | --        |