

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for LIMONENE

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|------------------------|---------------------|---------|----------|----------------------|---|
| Abies alba | Leaf | 855.0 | 1197.0 | 0.8114606080481381 | -- |
| Abies balsamea | Plant | 720.0 | 1550.0 | 0.4668059283834233 | -- |
| Abies spectabilis | Leaf | 115.0 | 305.0 | -0.12692400865166548 | -- |
| Abies alba | Resin, Exudate, Sap | | | | -- |
| Achillea millefolium | Leaf | 1.0 | 170.0 | -0.268944101986277 | -- |
| Acinos suaveolens | Shoot | | 3700.0 | 1.5550426407712443 | Jim Duke's personal files. |
| Acorus calamus | Rhizome | 10.0 | 1400.0 | 1.2836558613056794 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Aeolanthus myriantha | Flower | | | | Wealth of India. |
| Aesculus hippocastanum | Flower Essent. Oil | | 42000.0 | -1.4135017793261806 | Jim Duke's personal files. |
| Agastache foeniculum | Plant | 2.0 | 25.0 | -0.47043922202338057 | -- |
| Agastache urticifolia | Plant | | 2464.0 | 1.0285384316436323 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Agastache rugosa | Essential Oil | | | | Jim Duke's personal files. |
| Agastache nepetoides | Plant | | 2.0 | -0.48457472265246676 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Agathosma betulina | Leaf Essent. Oil | | | | -- |
| Ageratum conyzoides | Shoot | | 340.0 | -0.1553622230979656 | R. Vera, (1993); Chemical composition of the essential oil Ageratum conyzoides L. (Asteraceae) from Reunion, Flavour Fragr. J., Vol.8, 257-260. |
| Aloysia citrodora | Plant | 42.0 | 1050.0 | 0.1595124364467663 | -- |
| Alpinia galanga | Rhizome Essent. Oil | | 3500.0 | -0.6357397413333852 | -- |
| Alpinia galanga | Rhizome | 1.0 | 165.0 | -0.8992219200540644 | -- |
| Alpinia galanga | Leaf | | 50.0 | -0.3951841849503761 | -- |
| Alpinia galanga | Leaf Essent. Oil | | 0.4 | -0.6782227076561912 | -- |
| Alpinia officinarum | Rhizome | | | | Wealth of India. |
| Amomum compactum | Seed | | | | Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|------------------------|-------------------|----------|----------|----------------------|--|
| Anacardium occidentale | Fruit | | | | -- |
| Anethum graveolens | Leaf Essent. Oil | | 214300.0 | 0.2690608628408047 | -- |
| Anethum graveolens | Plant | | | | -- |
| Anethum graveolens | Root Essent. Oil | | | | -- |
| Anethum graveolens | Shoot Essent. Oil | | 119200.0 | 0.3094342045722538 | -- |
| Anethum graveolens | Seed Essent. Oil | | | | -- |
| Anethum graveolens | Essential Oil | 467000.0 | 628800.0 | 2.882227993253224 | -- |
| Anethum graveolens | Leaf | 125.0 | 3735.0 | 3.4814383627388343 | -- |
| Angelica archangelica | Root Essent. Oil | | 227000.0 | 1.5228275750660336 | -- |
| Angelica archangelica | Root | 0.0 | 1320.0 | 1.7252265137628358 | -- |
| Aniba rosaeodora | Essential Oil | | | | -- |
| Annona squamosa | Plant | | | | -- |
| Apium graveolens | Et | | 695000.0 | 1.0 | -- |
| Apium graveolens | Seed Essent. Oil | 350000.0 | 721600.0 | 2.1440076891973874 | -- |
| Apium graveolens | Root Essent. Oil | | 117000.0 | 0.2687678089626183 | -- |
| Apium graveolens | Stem Essent. Oil | | 695000.0 | | -- |
| Apium graveolens | Essential Oil | | | | -- |
| Apium graveolens | Seed | 530.0 | 24000.0 | 0.9558696966291022 | -- |
| Apium graveolens | Fruit Essent. Oil | 350000.0 | 706000.0 | 0.5704970731129614 | -- |
| Apium graveolens | Leaf Essent. Oil | | 621000.0 | 2.0668254322619717 | -- |
| Armoracia rusticana | Plant | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Artemisia dracunculus | Shoot | 25.0 | 270.0 | -0.19099565776190747 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Artemisia dracunculus | Essential Oil | | | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-------------------------|---------------------|---------|----------|------------------------|---|
| Artemisia annua | Plant | | 1200.0 | 0.2517004840277634 | Wright, C.W. (Ed) 2002. Medicinal & Aromatic Plants-Industrial Profiles. Artemisia. 344pp. Maffei, M. (Ed) 2002. Vetiveria. The Genus Vetiveria. Taylor & Francis. NY, NY. 191pp. Southwell, I., Lowe, R. (Eds) 1999. Tea Tree. The Genus Melaleuca. Harwood Acad. Pub. Amsterdam, Netherlands. |
| Artemisia annua | Shoot | 2.0 | 80.0 | -0.28771498042117827 | Wright, C.W. (Ed) 2002. Medicinal & Aromatic Plants-Industrial Profiles. Artemisia. 344pp. Maffei, M. (Ed) 2002. Vetiveria. The Genus Vetiveria. Taylor & Francis. NY, NY. 191pp. Southwell, I., Lowe, R. (Eds) 1999. Tea Tree. The Genus Melaleuca. Harwood Acad. Pub. Amsterdam, Netherlands. |
| Artemisia dracuncululus | Root Essent. Oil | | | | -- |
| Asarum canadense | Rhizome | | | | -- |
| Asiasarum sieboldii | Root | | | | -- |
| Asimina triloba | Fruit | 0.027 | 0.548 | -0.7501252174987437 | -- |
| Aspalathus linearis | Leaf Essent. Oil | | | | -- |
| Avena sativa | Seed | | | | -- |
| Bidens pilosa | Leaf Essent. Oil | | 100000.0 | -0.23618745357138943 | Jim Duke's personal files. |
| Boswellia sacra | Resin Essent. Oil | | 1.7 | | 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 sacra | Resin, Exudate, Sap | | 78200.0 | | Chiavari, G., Gtalletti, G. C., Piccaglia, R., Mohamud, M. A. 1991. Differentiation Between Resins Boswellia carterii and Boswellia frereana (Frankincense) of Somali Origin. J. Essent. Oil Res. 3 (3): 185-186. |
| Boswellia sacra | Essential Oil | | 128000.0 | -3.1356999051470447E-4 | -- |
| Boswellia serrata | Essential Oil | | | | -- |
| Bursera delpechiana | Wood | 75.0 | 360.0 | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|--------------------------|------------------|----------|----------|----------------------|---|
| Calamintha nepeta | Shoot | | 585.0 | -0.03064520177416904 | 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 | | 80.0 | -0.36362416420935134 | 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. |
| Callicarpa americana | Leaf | | 4.0 | -0.44357621675328074 | -- |
| Camellia sinensis | Leaf | | | | -- |
| Canarium indicum | Essential Oil | 54100.0 | 135250.0 | 0.04141651454126865 | -- |
| Capsicum frutescens | Fruit | | | | -- |
| Capsicum annuum | Fruit | | | | -- |
| Carthamus tinctorius | Leaf | | 0.01 | -0.44777369951183704 | -- |
| Carthamus tinctorius | Bud | | 0.01 | | -- |
| Carum carvi | Fruit | 7860.0 | 30180.0 | 3.5781164025182557 | -- |
| Carum carvi | Seed Essent. Oil | | 381600.0 | 0.7234037553203063 | -- |
| Carum carvi | Seed | 3000.0 | 42000.0 | 2.245951109203175 | -- |
| Carum carvi | Essential Oil | 250000.0 | 500000.0 | 2.140871457019611 | -- |
| Carum carvi | Plant | | 420.0 | -0.22767736339342154 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Centella asiatica | Shoot | | | | Jim Duke's personal files. |
| Chamaemelum nobile | Plant | | | | -- |
| Chenopodium ambrosioides | Plant | | | | -- |
| Chrysanthemum parthenium | Shoot | | | | Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71. |
| Chrysanthemum balsamita | Plant | | | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------|----------------------|----------|----------|----------------------|--|
| Cinnamomum aromaticum | Bark | | | | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| Cinnamomum verum | Stem Bark | | | | -- |
| Cinnamomum verum | Bark | 46.0 | 184.0 | -1.0 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Cinnamomum verum | Bark Essent. Oil | | | | -- |
| Cinnamomum camphora | Leaf | 48.0 | 120.0 | -0.3215441365546516 | -- |
| Cinnamomum verum | Leaf Essent. Oil | | | | -- |
| Cinnamomum verum | Root Bark | | | | -- |
| Cistus ladaniferus | Leaf | 17.0 | 1190.0 | 0.8040966032085657 | -- |
| Citrullus colocynthis | Petiole | | | | -- |
| Citrus aurantium | Leaf | 70.0 | 110.0 | -0.3320641434683265 | -- |
| Citrus limon | Fruit Essent. Oil | 512000.0 | 980000.0 | 1.267182025507371 | Jim Duke's personal files. |
| Citrus mitis | Fruit Juice | | | | -- |
| Citrus reticulata | Essential Oil | | | | -- |
| Citrus paradisi | Leaf | | 205.0 | -0.23212407778841473 | -- |
| Citrus sinensis | Fruit Juice | 1.0 | 278.0 | | -- |
| Citrus limon | Leaf Essent. Oil | 284000.0 | 754000.0 | 2.654734671831716 | -- |
| Citrus aurantiifolia | Fruit | 4700.0 | 7500.0 | 0.3254224854124864 | -- |
| Citrus aurantium | Plant | 1000.0 | 8000.0 | 4.430891974366298 | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Citrus reticulata | Fruit | 6500.0 | 9400.0 | 0.5979144802317528 | -- |
| Citrus limon | Pericarp Essent. Oil | 512000.0 | 774000.0 | | -- |
| Citrus limon | Petiole | | 3090.0 | | -- |
| Citrus sinensis | Fruit | 8300.0 | 9700.0 | 0.6409395320453212 | -- |
| Citrus limon | Essential Oil | 2796.0 | 8000.0 | -0.6910184174131357 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|------------------------|---------------------|---------|----------|----------------------|--|
| Cleonia lusitanica | Leaf | 165.0 | 325.0 | -0.10588399482431562 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442. |
| Cocos nucifera | Fruit | | | | Jim Duke's personal files. |
| Collinsonia canadensis | Plant | | | | -- |
| Commiphora myrrha | Resin, Exudate, Sap | | | | -- |
| Coriandrum sativum | Essential Oil | | | | -- |
| Coriandrum sativum | Fruit | 34.0 | 1238.0 | -0.5726537627760642 | -- |
| Coriandrum sativum | Seed Essent. Oil | 15500.0 | 18950.0 | -0.7918374700341749 | -- |
| Coridothymus capitatus | Shoot | | 110.0 | -0.27244350842234605 | 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. |
| Crocus sativus | Silk Stigma Style | | | | -- |
| Cuminum cyminum | Seed | 60.0 | 696.0 | -0.7143557055167975 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Cuminum cyminum | Seed Essent. Oil | | 2500.0 | -0.8605696309526396 | -- |
| Cuminum cyminum | Fruit | 60.0 | 696.0 | -0.6503856897192445 | -- |
| Cunila origanoides | Shoot | | 140.0 | -0.2571720364235138 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Curcuma longa | Leaf | | 125.0 | -0.31628413309781417 | -- |
| Curcuma longa | Rhizome | | 80.0 | -1.049460471807569 | -- |
| Curcuma longa | Essential Oil | | 2300.0 | -0.7238268976657102 | -- |
| Curcuma longa | Tuber | | | | -- |
| Curcuma longa | Rhizome Essent. Oil | | 2300.0 | -0.7761485185603905 | -- |
| Cymbopogon parkeri | Plant | 20.0 | 634.0 | -0.09615574884453233 | Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|--------------------------|-------------------|---------|----------|----------------------|---|
| Cymbopogon martinii | Plant | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Cymbopogon flexuosus | Plant | | | | -- |
| Cymbopogon citratus | Plant | | | | Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952. |
| Cyperus rotundus | Essential Oil | | | | -- |
| Daucus carota | Seed | 20.0 | 1500.0 | -0.6567320690884889 | -- |
| Daucus carota | Root | | 150.0 | -0.4481409382990946 | -- |
| Daucus carota | Shoot | | 26.0 | -0.31520363001907625 | -- |
| Dictamnus hispanicus | Shoot | | | | 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 | Shoot | 13.0 | 17.0 | -0.31978507161872594 | 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 thymiflora | Plant | | 10.0 | -0.4796580267814803 | -- |
| Echinacea spp | Fruit | | | | Economic & Medicinal Plant Research, 5: 253. |
| Elettaria cardamomum | Seed Essent. Oil | | 84600.0 | -0.5175355633899679 | -- |
| Elettaria cardamomum | Fruit Essent. Oil | | 25000.0 | -1.1610447246264288 | -- |
| Elettaria cardamomum | Fruit | 595.0 | 9481.0 | 0.6095312442214162 | -- |
| Elsholtzia polystachya | Leaf | | 0.0 | -0.44778421951875075 | 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 blanda | Shoot | | 55.0 | -0.3004412070868718 | Bestman, H.J., Rauscher, J., Vostrowsky O., Pant, A.K., Dev. V., Perihar, 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 | | 0.0 | -0.44778421951875075 | 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 | -0.3283880008447348 | 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 nipponica | Plant | | | | Hegnauer, R. 1962-1997. Chemotaxonomie der Pflanzen, Bde 1-11. Birkhauser Verlag Basel, Boston, Berlin. |
| Ephedra sinica | Shoot | | 23.0 | -0.3167307772189595 | -- |
| Eruca sativa | Hs | | | | -- |
| Eucalyptus melliodora | Shoot | | 0.1 | -0.3283880008447348 | 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 behriana | Leaf | | 2.7 | -0.4449438176520584 | 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 | | 245.0 | -0.19004405013371503 | 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 astringens | Shoot | | 0.1 | -0.3283880008447348 | 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 incrassata | Leaf | | 680.0 | 0.26757625061114426 | 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 populnea | Leaf | | 1.8 | -0.4458906182742893 | 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 globulus | Shoot | | 0.1 | -0.3283880008447348 | 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 | | 225.0 | -0.21108406396106488 | 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 tetraptera | Leaf | | 565.0 | 0.1465961711038826 | 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 | Leaf Essent. Oil | 31000.0 | 52000.0 | -0.448365224243177 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|--------------------------|---------------|---------|----------|----------------------|---|
| Eucalyptus fasciculosa | Leaf | | 75.0 | -0.36888416766618876 | 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 cladocalyx | Shoot | | 275.0 | -0.18845041242876875 | 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 sideroxylon | Shoot | | 0.1 | -0.3283880008447348 | 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 odorata | Leaf | | 40.0 | -0.40570419186405104 | 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 camaldulensis | Shoot | | 0.1 | -0.3283880008447348 | 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 punctata | Shoot | | 0.1 | -0.3283880008447348 | 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 | Essential Oil | | | | -- |
| Eucalyptus citriodora | Leaf | 20.0 | 1420.0 | 1.046056762223089 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Eucalyptus botryoides | Shoot | | 0.1 | -0.3283880008447348 | 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 occidentalis | Shoot | | 1955.0 | 0.6667520195058362 | 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 ochrophloia | Leaf | | 0.7 | -0.4470478190347934 | 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 | | 290.0 | -0.14270401902217786 | 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 bosistoana | Shoot | | 0.1 | -0.3283880008447348 | 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 | -0.3283880008447348 | 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 | | 50.0 | -0.3951841849503761 | 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 forrestiana | Leaf | | 380.0 | -0.04802395679910353 | 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 | -0.3283880008447348 | 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 tereticornis | Shoot | | 0.1 | -0.3283880008447348 | 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 melanophloia | Leaf | | 2.0 | -0.4456802181360157 | 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 | | 22.0 | -0.4246402043086659 | 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 | Shoot | | 4000.0 | 1.7077573607595666 | -- |
| Eucalyptus siderophloia | Shoot | | 0.1 | -0.3283880008447348 | 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 grandis | Leaf Essent. Oil | | 25000.0 | -0.5677152202460574 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-------------------------|-------|---------|----------|-----------------------|---|
| Eucalyptus porosa | Leaf | | 295.0 | -0.13744401556534042 | 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 bridgesiana | Leaf | | 585.0 | 0.16763618493123245 | Singh, A. K., Gupta, K. C., & Brophy, J. J. 1991. Volatile Constituents of the Essential Oil of Eucalyptus bridgesiana Growing in India. Journal of Essential Oil Res. 3: 449-450. |
| Eucalyptus polyanthemos | Shoot | | 630.0 | -0.007737993775920693 | 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 nova-anglica | Leaf | 4.0 | 7.0 | -0.4404202146791783 | Brophy, J. L., Lassak, E. V., & Boland, D. J. 1992. The Leaf Essential Oils of Eucalyptus nova-anglica. Deane & Maiden. Journal of Essential Oil Res. 4: 29-32. |
| Eucalyptus moluccana | Shoot | | 0.1 | -0.3283880008447348 | 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 intertexta | Leaf | | 340.0 | -0.09010398445380324 | 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 largisparsa | Leaf | | 135.0 | -0.30576412618413923 | 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 blakelyi | Shoot | | 0.1 | -0.3283880008447348 | 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 | | 15.0 | -0.3208031697519814 | 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 albens | Shoot | | 0.1 | -0.3283880008447348 | 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 erythrandra | Leaf | | 390.0 | -0.03750394988542861 | 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 stoatei | Leaf | | 535.0 | 0.11503615036285782 | 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 leucoxydon | Leaf | | 35.0 | -0.41096419532088846 | 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 dealbata | Shoot | | 1180.0 | 0.2722389928693369 | 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 desquamata | Leaf | | 40.0 | -0.40570419186405104 | 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 ceratocorys | Leaf | | 155.0 | -0.28472411235678935 | 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 saligna | Shoot | | 800.0 | 0.07880034755079528 | 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 | | 5000.0 | -0.6561226246926355 | -- |
| Eucalyptus lansdowneana | Leaf | | 25.0 | -0.4214842022345634 | 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 brassiana | Leaf | | 150.0 | -0.2899841158136268 | 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 oviformis | Shoot | | 0.1 | -0.3283880008447348 | 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. |
| Euodia rutaecarpa | Leaf | | | | -- |
| Ferula gummosa | Plant | | | | -- |
| Ficus carica | Leaf Essent. Oil | | | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------------|--------------------|---------|----------|----------------------|--|
| <i>Foeniculum vulgare</i> | Seed Essent. Oil | 25000.0 | 131000.0 | -0.32366490888438976 | Jim Duke's personal files. |
| <i>Foeniculum vulgare</i> | Fruit | 200.0 | 9420.0 | 0.600782817019324 | -- |
| <i>Foeniculum vulgare</i> | Leaf Essent. Oil | | 578000.0 | 1.8767495127018285 | Jim Duke's personal files. |
| <i>Foeniculum vulgare</i> | Essential Oil | 2000.0 | 324400.0 | 1.130140030291175 | Jim Duke's personal files. |
| <i>Foeniculum vulgare</i> | Plant | | 1800.0 | 0.6204526743517518 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Foeniculum vulgare</i> | Seed | 200.0 | 9420.0 | -0.08909624755589692 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Foeniculum vulgare</i> | Flower Essent. Oil | | 342000.0 | 0.6678980920638107 | Jim Duke's personal files. |
| <i>Gentiana lutea</i> | Essential Oil | | 346800.0 | 1.2590716018100643 | Abstract (See species file) |
| <i>Glechoma hederacea</i> | Plant | 1.0 | 6.0 | -0.4821163747169735 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Hedeoma reverchonii</i> | Plant | | 368.0 | -0.25963588655483383 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Hedeoma pulegioides</i> | Plant | 36.0 | 570.0 | -0.13548931581242443 | -- |
| <i>Hedeoma pulegioides</i> | Pollen Or Spore | | 6000.0 | | -- |
| <i>Hedeoma hispida</i> | Plant | | 36.0 | -0.4636787652007741 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Hedeoma drummondii</i> | Plant | 1.0 | 410.0 | -0.23382323323215468 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Hedychium flavum</i> | Shoot | | 140.0 | -0.2571720364235138 | -- |
| <i>Helianthus annuus</i> | Flower | | | | -- |
| <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. <i>Phytochemistry</i> , 38(4): 847-851. |
| <i>Hibiscus sabdariffa</i> | Calyx | | | | -- |
| <i>Houttuynia cordata</i> | Shoot Essent. Oil | | | | -- |
| <i>Humulus lupulus</i> | Fruit | | | | -- |
| <i>Humulus lupulus</i> | Essential Oil | | | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------|-------------------|---------|----------|-----------------------|--|
| Hypericum perforatum | Plant | 5.0 | 90.0 | -0.43049106807161513 | -- |
| Hypericum perforatum | Leaf Essent. Oil | | | | -- |
| Hypericum perforatum | Shoot | | | | -- |
| Hypericum perforatum | Fruit Essent. Oil | | | | -- |
| Hyptis suaveolens | Plant | | 390.0 | -0.24611497290962095 | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 74. |
| Hyssopus officinalis | Shoot | | 0.1 | -0.3283880008447348 | 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 | Flower | 5.0 | 54.0 | -0.5756715791109762 | Flavour and Fragrance Journal, 6: 69. |
| Hyssopus officinalis | Shoot | | | | 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 | Leaf | 7.0 | 480.0 | 0.05717611233764573 | -- |
| Illicium verum | Fruit | 100.0 | 5220.0 | -0.001567908370633259 | -- |
| Isanthus brachiatus | Plant | | 20.0 | -0.4735121569427471 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Juglans nigra | Essential Oil | | 15000.0 | -0.6507273013134828 | -- |
| Juniperus communis | Essential Oil | | 31000.0 | -0.5586333216571333 | -- |
| Juniperus communis | Fruit Essent. Oil | | | | -- |
| Juniperus virginiana | Leaf | | | | -- |
| Juniperus communis | Fruit | 76.0 | 910.0 | -0.6196944860922323 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Lantana camara | Shoot | | 18.0 | -0.3192760225520982 | -- |
| Larrea tridentata | Essential Oil | | | | -- |
| Laurus nobilis | Leaf Essent. Oil | | | | -- |
| Laurus nobilis | Leaf | 55.0 | 500.0 | 0.07821612616499558 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|------------------------|--------|---------|----------|----------------------|--|
| Lavandula latifolia | Plant | 55.0 | 297.0 | -0.30327156240983916 | 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. |
| Lavandula x hybrida | Shoot | 110.0 | 200.0 | -0.22662909242584933 | 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 | 50.0 | 140.0 | -0.3997617188779494 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Leonotis leonurus | Se | | 28.0 | | Pedro, L.G., Barroso, J.G., Marques, N.T., Ascensao, L., Pais, M.S.S. and Scheffer, J.J.C. 1991. Composition of the Essential Oil from Sepals of Leonotis leonurus R. Br. J. Ess. Oil Res. 3: 451-3 |
| Leonurus cardiaca | Plant | | 2.0 | -0.48457472265246676 | -- |
| Lepechinia calycina | Plant | | 115.0 | -0.4151263934747823 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Levisticum officinale | Root | 8.0 | 80.0 | -0.5781714696190392 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Lindera benzoin | Twig | 9.0 | 11.0 | | -- |
| Lindera benzoin | Leaf | | 0.4 | -0.44736341924220374 | -- |
| Lindera benzoin | Fruit | 80.0 | 115.0 | -0.7337108733981885 | -- |
| Lippia alba | Plant | | | | Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp. |
| Litsea glaucescens | Shoot | 25.0 | 30.0 | -0.3131674337525653 | Tucker, et al, EB46(1):21-24.1992 |
| Lycopus virginicus | Plant | 10.0 | 26.0 | -0.4698246350395072 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Lycopus uniflorus | Plant | 111.0 | 174.0 | -0.3788657614262568 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Magnolia denudata | Twig | | | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------------------|------------------|---------|----------|----------------------|--|
| Magnolia denudata | Bulb | | | | -- |
| Magnolia denudata | Leaf | | | | -- |
| Magnolia denudata | Bark | | | | -- |
| Magnolia fargesii | Flower | | | | -- |
| Magnolia denudata | Flower | | | | -- |
| Mangifera indica | Flower | | | | -- |
| Marrubium vulgare | Plant | | | | -- |
| Marrubium vulgare | Essential Oil | | | | -- |
| Medicago sativa | Essential Oil | | | | -- |
| Melaleuca alternifolia | Leaf | 100.0 | 250.0 | -0.18478404667687756 | -- |
| Melaleuca alternifolia | Leaf Essent. Oil | | 9000.0 | -0.63844114380332 | -- |
| Melaleuca cajuputi | Leaf | | 430.0 | 0.004576077769271099 | -- |
| Melaleuca leucadendra | Plant | | | | -- |
| Melaleuca alternifolia | Root Essent. Oil | | 18700.0 | -0.8519056002007065 | -- |
| Melaleuca alternifolia | Essential Oil | 9000.0 | 43000.0 | -0.48956283691487124 | -- |
| Melissa officinalis | Shoot | | 0.1 | -0.3283880008447348 | Deutsche Apot. Ztit. 129(4):155-163. W. Schulze et al. Die Melisse. |
| Mentha arvensis var. piperascens | Leaf | 20.0 | 3520.0 | 3.2552582140948236 | -- |
| Mentha aquatica | Shoot | | 60.0 | -0.29789596175373306 | Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419. |
| Mentha pulegium | Leaf Essent. Oil | | 5000.0 | -0.6561226246926355 | -- |
| Mentha aquatica | Shoot | | 21.0 | -0.31774887535221497 | Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419. |
| Mentha pulegium | Essential Oil | 1000.0 | 110000.0 | -0.10391929710390785 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------|---------------|---------|----------|----------------------|--|
| Mentha x rotundifolia | Leaf | | | | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. |
| Mentha x piperita | Leaf | 2.0 | 320.0 | -0.1111439982811531 | -- |
| Mentha sp | Plant | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Mentha pulegium | Plant | 10.0 | 2200.0 | 0.8662874679010774 | -- |
| Mentha aquatica | Shoot | | 60.0 | -0.29789596175373306 | Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419. |
| Mentha aquatica | Shoot | | 60.0 | -0.29789596175373306 | Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419. |
| Mentha x rotundifolia | Leaf | 14.0 | 500.0 | 0.07821612616499558 | -- |
| Mentha spicata | Essential Oil | 19000.0 | 363000.0 | 1.3523167562121183 | -- |
| Mentha spicata | Plant | 7.0 | 9075.0 | 5.091572982030111 | -- |
| Mentha longifolia | Shoot | 7.0 | 3040.0 | 1.2190702567969351 | -- |
| Mentha aquatica | Shoot | | 75.0 | -0.290260225754317 | Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419. |
| Mentha pulegium | Shoot | | | | -- |
| Mentha aquatica | Leaf | 114.0 | 714.0 | 0.303344274117639 | -- |
| Mentha x piperita | Leaf | | | | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. |
| Mentha spicata | Shoot | | | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------|-------|---------|----------|----------------------|---|
| Mentha pulegium | Plant | 41.0 | 148.0 | -0.39484502300696295 | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. |
| Micromeria fruticosa | Shoot | | 335.0 | -0.1579074684311043 | 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 varia | Shoot | | 80.0 | -0.28771498042117827 | Pedro, L.G., et al. 1995. Composition of the Essential oil of Micromeria varia Benth. ssp. thymoides (Sol. ex Lowe) Perez var. thymoides, and endemic species of the Madeira Archipelago. flav. & Fragr. J. 10(3): 199-202. |
| Micromeria juliana | Leaf | | 25.0 | -0.4214842022345634 | 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 | Leaf | | 1.0 | -0.44673221882738323 | 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 thymifolia | Leaf | | 175.0 | -0.2636840985294395 | 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 | | 30.0 | -0.41622419877772593 | 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 | | 335.0 | -0.1579074684311043 | 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 varia | Shoot | | 80.0 | -0.28771498042117827 | -- |
| Micromeria myrtifolia | Shoot | | 0.9 | -0.3279807615914325 | 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. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------|--------|---------|----------|----------------------|--|
| Micromeria teneriffae | Leaf | | 560.0 | 0.14133616764704512 | 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 | 275.0 | 355.0 | -0.07432397408329085 | 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. |
| Minthostachys mollis | Shoot | 4.0 | 10.0 | -0.32334841508512013 | Alkire, B.H., Tucker, A.O., and Maciarello, M.J. 1994. Tipo (Minthostachys mollis (Lamiaceae): An Ecuadorian Mint. Econ. Bot. 48(1): 60-64. |
| Moldavica thymiflora | Plant | | 10.0 | -0.4796580267814803 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Monarda russeliana | Plant | | 104.0 | -0.42188685029738876 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Monarda lindheimeri | Plant | | 94.0 | -0.42803272013612187 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Monarda citriodora | Plant | 89.0 | 90.0 | -0.43049106807161513 | -- |
| Monarda citriodora | Leaf | | 35.0 | -0.41096419532088846 | 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 Monarda citriodora var. citriodora grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9. |
| Monarda fistulosa | Plant | 3.0 | 589.0 | -0.12381216311883146 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Monarda didyma | Flower | | 10.0 | -0.6767651247109525 | Flavour and Fragrance Journal, 6: 80. |
| Monarda punctata | Plant | 50.0 | 2874.0 | 1.280519095031691 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Monarda didyma | Plant | 2.0 | 1300.0 | 0.3131591824150948 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Monarda citriodora | Flower | | 40.0 | -0.6078377072564232 | 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 Monarda citriodora var. citriodora grown in the United Kingdom. J. Ess. Oil Res. 6: 27-9. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|--------------------|------------------|---------|----------|----------------------|--|
| Monarda clinopodia | Plant | | 287.0 | -0.30941743224857227 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Monarda media | Plant | 236.0 | 1484.0 | 0.42624318744778456 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Monarda didyma | Leaf | 25.0 | 40.0 | -0.40570419186405104 | -- |
| Morinda citrifolia | Fruit | | 0.17 | -0.7501794290640288 | -- |
| Murraya koenigii | Leaf | | 115.0 | -0.32680414001148905 | -- |
| Myrica cerifera | Leaf | | | | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| Myristica fragrans | Seed Essent. Oil | 31000.0 | 119000.0 | -0.37380387125652204 | -- |
| Myristica fragrans | Seed | 720.0 | 5760.0 | -0.35141280144595843 | -- |
| Myristica fragrans | Leaf Essent. Oil | | | | -- |
| Myristica fragrans | Essential Oil | 36000.0 | 44000.0 | -0.4838069631863494 | -- |
| Myrrhis odorata | Plant | | | | Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind) |
| Myrrhis odorata | Essential Oil | | 2600.0 | -0.7221001355471537 | Hussain, R.A., et. al. 1990. Sweetening Agents of Plant Origin: Phenylpropanoid Constituents of Seven Sweet-Tasting Plants. Econ. Bot. 44 2: 174-182. Program Collab. Res. Pharm. Sci. Coll. Pharmacy Univ. Illinois at Chicago IL 60680, USA. |
| Myrtus communis | Leaf | 40.0 | 585.0 | 0.16763618493123245 | -- |
| Myrtus communis | Plant | 185.0 | 585.0 | -0.1262705110543247 | -- |
| Nepeta racemosa | Shoot | | 90.0 | -0.28262448975490084 | 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 racemosa | Shoot | | 90.0 | -0.28262448975490084 | 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 | Leaf | | | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|--------------------------|-------------------|---------|----------|----------------------|--|
| Nepeta cataria | Plant | | | | -- |
| Ocimum gratissimum | Plant | 10.0 | 105.0 | -0.4212722633135154 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Ocimum kilimandscharicum | Leaf | 360.0 | 615.0 | 0.19919620567225724 | 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 Essent. Oil | 1000.0 | 2900.0 | -0.6654054021595263 | -- |
| Ocimum basilicum | Plant | | 20.0 | -0.4735121569427471 | Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504. |
| Ocimum gratissimum | Leaf | 185.0 | 335.0 | -0.0953639879106407 | Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234. |
| Ocimum kilimandscharicum | Flower | 570.0 | 980.0 | 1.5518880396521617 | Charles, D.J., and Simon, J.E. 1992. Essential Oil Constituents of Ocimum kilimandscharicum Guerke. J. Ess. Oil Res., 4: 125-128. |
| Ocimum basilicum | Shoot Essent. Oil | | 7100.0 | -0.8611251092370704 | -- |
| Ocimum basilicum | Plant | | 20.0 | -0.4735121569427471 | Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504. |
| Ocimum gratissimum | Shoot | | 42.0 | -0.30705884495303243 | 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 | 158.0 | 220.0 | -0.19427320252924737 | Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234. |
| Ocimum tenuiflorum | Leaf | | 145.0 | -0.2952441192704643 | 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 basilicum | Essential Oil | 3100.0 | 77600.0 | -0.2904096059080155 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------|-------------------|---------|----------|----------------------|---|
| Origanum sipyleum | Shoot | | 10.0 | -0.32334841508512013 | 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 | Leaf Essent. Oil | | 24000.0 | -0.5721355904683862 | -- |
| Origanum vulgare | Plant | | 70.0 | -0.4427828077490814 | 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 onites | Shoot | | 85.0 | -0.28516973508803956 | 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. |
| Origanum syriacum | Shoot | | 90.0 | -0.28262448975490084 | Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123. |
| Origanum vulgare | Shoot Essent. Oil | 1400.0 | 35900.0 | -0.5603926539497507 | -- |
| Origanum sipyleum | Shoot | | 120.0 | -0.2673530177560686 | 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 | | 120.0 | -0.2673530177560686 | 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 | 60.0 | -0.29789596175373306 | 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 vulgare | Plant | | 5.0 | -0.48273096170084684 | 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. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-------------------|------------------|---------|----------|----------------------|---|
| Origanum vulgare | Shoot | | 315.0 | -0.1680884497636591 | Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Origanum Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23. |
| Origanum onites | Plant | | 17.0 | -0.47535591789436704 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Origanum syriacum | Shoot | | 55.0 | -0.3004412070868718 | Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123. |
| Origanum sipyleum | Shoot | | 120.0 | -0.2673530177560686 | 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 | | 38000.0 | -0.5183422055574805 | -- |
| Origanum vulgare | Plant | 22.0 | 480.0 | -0.1908021443610227 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Origanum vulgare | Plant | | 17.0 | -0.47535591789436704 | 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 onites | Shoot | | 85.0 | -0.28516973508803956 | 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. |
| Origanum vulgare | Plant | | 2.0 | -0.48457472265246676 | 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 majorana | Plant | 18.0 | 1710.0 | 0.5651398458031535 | -- |
| Origanum syriacum | Shoot | | 90.0 | -0.28262448975490084 | Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123. |
| Panax ginseng | Root Essent. Oil | | | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-------------------------|-------------------|---------|----------|-----------------------|--|
| Panax ginseng | Root | | | | Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| Pastinaca sativa | Root | | | | -- |
| Pelargonium citrosum | Shoot | | 10.0 | -0.32334841508512013 | 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. |
| Pelargonium graveolens | Essential Oil | 1.0 | 3.0 | -0.7370481396201248 | -- |
| Perilla frutescens | Leaf Essent. Oil | | 128000.0 | -0.11241708734618 | 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 | Plant | | | | -- |
| Perilla frutescens | Shoot Essent. Oil | | 284000.0 | 2.030292143160805 | 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 | 6.0 | 1470.0 | -0.6588822047761124 | -- |
| Petroselinum crispum | Leaf | | 16.0 | -0.4309522084568708 | -- |
| Petroselinum crispum | Fruit Essent. Oil | 10000.0 | 60100.0 | -1.071797856637218 | -- |
| Petroselinum crispum | Seed Essent. Oil | | | | -- |
| Peumus boldus | Leaf | 6.0 | 400.0 | -0.026983942971753678 | -- |
| Phyllanthus niruri | Leaf | | | | Tramil |
| Pilocarpus microphyllus | Leaf | | 50.0 | -0.3951841849503761 | -- |
| Pilocarpus jaborandi | Leaf | | 2350.0 | 2.0244174051948574 | -- |
| Pimenta racemosa | Leaf | 140.0 | 6870.0 | 6.779460530175923 | -- |
| Pimenta dioica | Leaf | | 15.0 | -0.43200420914823834 | -- |
| Pimenta dioica | Fruit | | 28.0 | -0.7461881384241233 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------|---------------------|----------|----------|----------------------|--|
| Pimenta dioica | Leaf Essent. Oil | | | | -- |
| Pimpinella anisum | Essential Oil | | | | -- |
| Pimpinella anisum | Seed | 25.0 | 459.0 | -0.7313417774490227 | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Pimpinella anisum | Seed Essent. Oil | | | | -- |
| Pimpinella anisum | Fruit | 25.0 | 459.0 | -0.6843754806519635 | -- |
| Pinus sylvestris | Flower | | | | -- |
| Pinus sylvestris | Essential Oil | | | | -- |
| Pinus sylvestris | Leaf Essent. Oil | | | | -- |
| Pinus sylvestris | Resin, Exudate, Sap | | | | -- |
| Pinus sylvestris | Shoot | | | | -- |
| 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 | Seed Essent. Oil | | | | -- |
| Piper auritum | Leaf | | | | Tramil |
| Piper nigrum | Fruit | 1500.0 | 8000.0 | 0.397130905101767 | -- |
| Piper nigrum | Fruit Essent. Oil | 130500.0 | 210600.0 | -0.6891296619826244 | -- |
| Plectranthus incanus | Shoot | | 65.0 | -0.29535071642059435 | Shah, G.C., Bhandari, R. & Mathela, C.S. 1992. 1,2-Epoxy-p-Menthane Derivatives from some Labiatae Species. J. Ess. Oil Res. 4: 57-59. |
| Pogostemon cablin | Plant | | | | -- |
| Porophyllum ruderale | Plant | 9.0 | 13.0 | -0.4778142658298603 | 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. |
| Prunus armeniaca | Essential Oil | | | | -- |
| Psidium guajava | Fruit | | 1000.0 | -0.6067869705481619 | -- |
| Psidium guajava | Leaf Essent. Oil | | | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------------|----------------------|---------|----------|----------------------|---|
| Psidium guajava | Pericarp Essent. Oil | | | | -- |
| Psoralea corylifolia | Seed | | | | =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 |
| Ptychopetalum olacoides | Root Essent. Oil | | 11000.0 | -0.9396897838279455 | Uber Bucek, E., Fournier, G., Dadoun, H. 1987. Volatile Constituents of Ptychopetalum olacoides Root Oil. Planta Med. 53, 2: 231. |
| Pycnanthemum muticum | Shoot | 87.0 | 900.0 | 0.12970525421356938 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Pycnanthemum incanum | Shoot | 209.0 | 1216.0 | 0.29056475926793557 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Pycnanthemum curvipes | Shoot | | 2323.0 | 0.8540820760248449 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Pycnanthemum beadleii | Shoot | | 329.0 | -0.16096176283087074 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Pycnanthemum virginianum | Shoot | 12.0 | 14674.0 | 7.141347097944075 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Pycnanthemum tenuifolium | Shoot | 2.0 | 8520.0 | 4.008659141916956 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Pycnanthemum pilosum | Leaf | 66.0 | 1225.0 | 0.8409166274064279 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Pycnanthemum montanum | Shoot | 287.0 | 416.0 | -0.11667449403425727 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Pycnanthemum clinopodioides | Shoot | 1134.0 | 10780.0 | 5.159110032495651 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Pycnanthemum albescens | Shoot | 1688.0 | 5697.0 | 2.5716136268268435 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Pycnanthemum verticillatum | Shoot | | 336.0 | -0.15739841936447654 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-------------------------------------|---------------|---------|----------|----------------------|---|
| <i>Pycnanthemum setosum</i> | Shoot | 40.0 | 1085.0 | 0.22387933153970146 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum pilosum</i> | Flower | 66.0 | 1225.0 | 2.1147952821974845 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum loomisii</i> | Shoot | 330.0 | 2520.0 | 0.9543647421505098 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum californicum</i> | Shoot | | 144.0 | -0.2551358401570028 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum torreyi</i> | Shoot | | 60.0 | -0.29789596175373306 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum pycnanthemoides</i> | Shoot | 234.0 | 5800.0 | 2.6240456806895005 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Ravensara aromatica</i> | Bark | | 440.0 | 1.0 | -- |
| <i>Ribes nigrum</i> | Leaf | | 7.0 | -0.4404202146791783 | 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 damascena</i> | Essential Oil | | | | -- |
| <i>Rosmarinus tomentosus</i> | Shoot | 160.0 | 295.0 | -0.17826943109621393 | 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> | Shoot | | 9.0 | -0.3238574641517479 | 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> | Plant | 0.0 | 1950.0 | 0.7126407219327489 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------------|-------------------|---------|----------|-----------------------|--|
| Rosmarinus eriocalyx | Shoot | 145.0 | 330.0 | -0.160452713764243 | 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 | | 23000.0 | -0.5765559606907152 | -- |
| Rosmarinus x mendizabalii | Shoot | 100.0 | 370.0 | -0.14009075109913335 | 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 | 175.0 | 365.0 | -0.14263599643227207 | 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 | | 100.0 | -0.34258415038200146 | Soliman, F.M., El-Kashoury, M.M., Fathy, M.M. and Gonaid, 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 officinalis | Shoot Essent. Oil | | 8200.0 | -0.8496388001809575 | -- |
| Rosmarinus officinalis | Essential Oil | | 46000.0 | -0.4722952157293057 | -- |
| Rosmarinus x lavandulaceus | Shoot | 110.0 | 405.0 | -0.12227403376716242 | 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 | 185.0 | 530.0 | -0.058642900438694794 | 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. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------------|---------------------|---------|----------|----------------------|--|
| Rosmarinus officinalis | Leaf | | 100.0 | -0.34258415038200146 | 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 eriocalyx | Shoot | 145.0 | 330.0 | -0.160452713764243 | 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 | Resin, Exudate, Sap | | | | -- |
| Ruta graveolens | Plant | | | | -- |
| Salvia dorisiana | Shoot | 64.0 | 72.0 | -0.2917873729542002 | Tucker, A.O. & Maciarello, M.J. 1994. The Essential Oil of Salvia dorisiana Standley. J. Ess. Oil Res. 6: 97-8. |
| Salvia officinalis | Essential Oil | 6600.0 | 85000.0 | -0.2478161403169539 | -- |
| Salvia sclarea | Plant | 0.4 | 12.0 | -0.47842885281373365 | Flavour and Fragrance Journal, 6: 154. |
| Salvia officinalis | Leaf Essent. Oil | 10000.0 | 36400.0 | -0.517322999711508 | -- |
| Salvia officinalis | Plant | 39.0 | 2380.0 | 0.9769131249982739 | -- |
| Salvia gilliesii | Shoot | | 180.0 | -0.23681007375840415 | Velasco-Negueruela, A. et al. 1993. The Essential Oil of Salvia gilliesii Benth. J. Ess. Oil Res. 5: 319-320. |
| Salvia officinalis | Et | | 14000.0 | -1.0 | -- |
| Salvia triloba | Plant | 100.0 | 690.0 | -0.06173887774762675 | -- |
| Sambucus nigra | Flower Essent. Oil | | | | -- |
| Santolina chamaecyparissus | Plant | | | | -- |
| Sassafras albidum | Leaf | 16.0 | 32.0 | -0.41412019739499095 | -- |
| Satureja thymbra | Shoot | | 0.0 | -0.32843890575139756 | 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 | Plant | 4.0 | 85.0 | -0.4335640029909817 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-------------------------|---------------|---------|----------|----------------------|--|
| Satureja odora | Shoot | | 175.0 | -0.23935531909154287 | 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 douglasii | Plant | 234.0 | 1508.0 | 0.4409932750607441 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Satureja cilicica | Shoot | | 115.0 | -0.26989826308920734 | 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 obovata | Shoot | 1.0 | 255.0 | -0.19863139376132358 | Fitoterapia No.60: 277. |
| Satureja montana | Essential Oil | | 6200.0 | -0.701378990124475 | -- |
| Satureja subspicata | Plant | | 25.0 | -0.47043922202338057 | Stanic, G., Petricic, J., and Blazevic, N. 1991. Gas Chromatographic Investigations of Essential Oils of Satureja montana and Satureja subspicata from Yugoslavia. J. Ess. Oil Res., 3: 153-158. |
| Satureja hortensis | 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. |
| Satureja grandiflora | Shoot | | 50.0 | -0.3029864524200105 | 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 parvifolia | Shoot | | 255.0 | -0.19863139376132358 | 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 glabella | Plant | | 50.0 | -0.4550745474265477 | -- |
| Satureja cuneifolia | Shoot | | 125.0 | -0.2648077724229299 | Tumen, G. 1991. The Volatile Constituents of Satureja cuneifolia. J. Ess. Oil Res., 3: 365-366. |
| Scutellaria lateriflora | Plant | | | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------------|--------------------|----------|----------|----------------------|--|
| Scutellaria galericulata | Plant | | 13.0 | -0.4778142658298603 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Sideritis mugronensis | Flower | 1.0 | 155.0 | -0.3436159403473942 | Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of Sideritis mugronensis Flower and Leaf. J. Ess. Oil Res., 3: 395-397. |
| Sideritis pauli | Shoot | | 55.0 | -0.3004412070868718 | Burzaco, A., Velasco-Negueruela, A. and Perez-Alonso, M.J. 1992. Essential Oil Analysis of Sideritis pauli Pau. FFJ7: 47-8. 1992. |
| Sideritis germanicolpitana | Plant | 35.0 | 45.0 | -0.4581474823459143 | J. Essential Oil, 4: 533. |
| Sideritis mugronensis | Leaf | | 1.0 | -0.44673221882738323 | Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of Sideritis mugronensis Flower and Leaf. J. Ess. Oil Res., 3: 395-397. |
| Sideritis athoa | Shoot | | 26.0 | -0.31520363001907625 | 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. |
| Stachys germanica | Plant | | 18.0 | -0.47474133091049375 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Stevia rebaudiana | Leaf | | 1.0 | -0.44673221882738323 | Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp. |
| Stevia rebaudiana | Flower | | 30.0 | -0.6308135130745997 | Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp. |
| Stevia rebaudiana | Plant | | 10.0 | -0.4796580267814803 | 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. |
| Tagetes minuta | Flower Essent. Oil | 166300.0 | 353200.0 | 0.7456036872623704 | -- |
| Tagetes lucida | Leaf | | 165.0 | -0.27420410544311447 | Tramil |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------|-------------------|----------|----------|----------------------|--|
| Tagetes minuta | Leaf Essent. Oil | | 200000.0 | 0.20584956866150136 | Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina. |
| Tagetes minuta | Essential Oil | | | | -- |
| Tagetes filifolia | Leaf Essent. Oil | | | | Zygodlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina. |
| Tagetes minuta | Fruit Essent. Oil | 213100.0 | 353200.0 | -0.32654836924013236 | -- |
| Tagetes minuta | Shoot Essent. Oil | | 83000.0 | -0.06856978436527997 | -- |
| Tamarindus indica | Fruit | | | | 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. |
| Tanacetum parthenium | Shoot | | | | Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71. |
| Tanacetum parthenium | Essential Oil | | 5000.0 | -0.7082860385987012 | -- |
| Teucrium kotschyianum | Leaf | | 45.0 | -0.4004441884072136 | 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 polium | Shoot | | 16.0 | -0.3202941206853537 | Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian Teucrium Species. J. Ess. Oil Res. 5: 397-402. |
| Teucrium cyprum | Leaf | | 39.0 | -0.4067561925554185 | 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. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|---------------------------|-------|---------|----------|----------------------|--|
| Teucrium arduini | Shoot | | 3.0 | -0.32691175855151433 | Blazevic, N., Kalodera, Z., Petricic, J., and Plazibat, M. 1992. Essential Oil Content and Composition of Teucrium arduini L. J. Ess. Oil Res. 4: 223-225. |
| Teucrium asiaticum | Shoot | | 0.62 | -0.3281232953300884 | 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 arduini | Shoot | | 3.0 | -0.32691175855151433 | Blazevic, N., Kalodera, Z., Petricic, J., and Plazibat, M. 1992. Essential Oil Content and Composition of Teucrium arduini L. J. Ess. Oil Res. 4: 223-225. |
| Teucrium pseudoscorodonia | Shoot | | 0.28 | -0.32829637201274176 | 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 gnaphalodes | Shoot | | 7.0 | -0.32487556228500336 | Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian Teucrium Species. J. Ess. Oil Res. 5: 397-402. |
| Teucrium oxylepis | Shoot | | 1.83 | -0.3275073459594688 | 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 micropodioides | Leaf | | 170.0 | -0.268944101986277 | Arnold, N., Bellomaria, B., Velentini G. and Rifaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113. |
| Teucrium scorodonia | Shoot | | 0.51 | -0.3281792907274174 | 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 divaricatum | Leaf | | 125.0 | -0.31628413309781417 | Arnold, N., Bellomaria, B., Velentini G. and Rifaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------------|----------|---------|----------|-----------------------|---|
| <i>Teucrium oxylepis</i> | Shoot | | 0.99 | -0.3279349471754361 | Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9. |
| <i>Teucrium polium</i> | Plant | | | | Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986. |
| <i>Teucrium salviastrum</i> | Shoot | | 0.98 | -0.32794003766610236 | Velasco-Negueruela, A. and Perez-Alonso, M.J. 1990. The Volatiles of Six <i>Teucrium</i> Species from the Iberian Peninsula and the Balearic Islands. <i>Phytochemistry</i> 29(4): 1165-9. |
| <i>Thuja occidentalis</i> | Branches | | | | -- |
| <i>Thymus serpyllum</i> | Plant | 3.0 | 57.0 | -0.4507724385394345 | -- |
| <i>Thymus capitatus</i> | Shoot | | 4.0 | -0.3264027094848866 | Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. <i>Flav. & Fragr. J.</i> 8: 331-7. |
| <i>Thymus capitatus</i> | Plant | 10.0 | 30.0 | -0.46736628710401396 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Thymus funkii</i> | Shoot | | 5.0 | -0.32589366041825885 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| <i>Thymus cilicicus</i> | Shoot | | 570.0 | -0.038280937773585155 | Tumen, G., Koyuncu, M., Kirimer, N., and Baser, K.H.C. 1994. Composition of the Essential Oil of <i>Thymus cilicicus</i> Boiss. & Bal. <i>J. Ess. Oil Res.</i> 6: 97-8. |
| <i>Thymus zygis</i> | Shoot | 0.1 | 190.0 | -0.23171958309212673 | De Cunha, A.P. and Salguiero, L.R. 1991. The Chemical Polymorphism of <i>Thymus zygis</i> ssp. <i>sylvestris</i> from Central Portugal. <i>J. Ess. Oil Res.</i> 3: 409-12. |
| <i>Thymus longicaulis</i> | Shoot | | 5.0 | -0.32589366041825885 | Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of <i>Thymus longicaulis</i> C. Presl subsp. <i>longicaulis</i> in the same Population. <i>J. Ess. Oil Res.</i> 5: 291-5. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------|---------------|---------|----------|----------------------|--|
| Thymus orospedanus | Plant | | 140.0 | -0.3997617188779494 | J. Nat. Prod. |
| Thymus vulgaris | Essential Oil | | 5300.0 | -0.7065592764801447 | -- |
| Thymus x citriodorus | Plant | | 0.0 | -0.4858038966202134 | Stahl-Biskup, E. and Holthuijzen, J. 1995. Essential oil and glycosidally bound volatiles of lemon-scented thyme, Thymus x citriodorus (Pers.) Schreb. Flav. & Fragr. J. 10: 225-229. |
| Thymus saturejoides | Shoot | | 10.0 | -0.32334841508512013 | 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 zygis | Shoot | | | | 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 | | 5.0 | -0.32589366041825885 | 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 broussonettii | Shoot | | 30.0 | -0.3131674337525653 | 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 vulgaris | Plant | 15.0 | 5200.0 | 2.7100484195210193 | -- |
| Thymus mastichina | Plant | 240.0 | 280.0 | -0.3137195411356855 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Thymus funkii | Shoot | | | | 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 riatarum | Shoot | | 85.0 | -0.28516973508803956 | Iglesias, J., Vila, R., Canigual, S., Bellakdhar, and Idrissi, A. 1991. Analysis of the Essential Oil of Thymus riatarum. J. Ess. Oil Res. 3: 43-4. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|--------------------------|------------------|---------|----------|----------------------|---|
| Thymus zygis | Shoot | | 0.1 | -0.328388008447348 | 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 | | 770.0 | 0.06352887555196304 | 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. |
| Tilia sp. | Flower | | | | -- |
| Trachyspermum ammi | Fruit | 75.0 | 2040.0 | -0.45763345759445806 | -- |
| Trichostemma dichotomum | Shoot | | 5.0 | -0.32589366041825885 | Tucker, A.O. and Maciarelo, M.J. 1990. The Essential Oil of Trichostemma dichotomum. J. Ess. Oil Res. 2: 149-150. |
| Trifolium pratense | Flower | | 27.0 | -0.6377062548200526 | Buchnauer, G., Jirovetz, L., Nikiforov, A. 1996. Comparative Investigation of Essential Clover Flower Oils from Austria Using Gas Chromatography-Flame Ionization Detection, Gas Chromatography-Mass Spectrometry, and Gas Chrom.-Olfactometry. J. Agrc. Food Chem. 44:1827-8 |
| Umbellularia californica | Plant | 40.0 | 160.0 | -0.38746997920048315 | -- |
| Vaccinium corymbosum | Fruit | | | | -- |
| Vaccinium myrtillus | Fruit Juice | | | | -- |
| Valeriana officinalis | Root Essent. Oil | | | | -- |
| Valeriana officinalis | Leaf Essent. Oil | 2300.0 | 25500.0 | -0.5655050351348929 | -- |
| Valeriana officinalis | Root | | | | -- |
| Vanilla planifolia | Fruit | | | | -- |
| Vetiveria zizanioides | Root | | 15.0 | -0.698914105844702 | -- |
| Vitex agnus-castus | Leaf Essent. Oil | | 112100.0 | -0.18270097388120965 | Jim Duke's personal files. |
| Vitex agnus-castus | Fruit | 590.0 | 4000.0 | -0.17653645241247798 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|---------------------|---------------------|---------|-----------|----------------------|--|
| Vitex agnus-castus | Leaf | | 6.0 | -0.44147221537054576 | 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 <i>Vitex agnus-castus</i> L. J. Essential Oil Research, 2: 115-119. |
| Vitex agnus-castus | Fruit Essent. Oil | | 1036500.0 | 1.4108415138660721 | Jim Duke's personal files. |
| Vitex agnus-castus | Flower | | | | Jim Duke's personal files. |
| Vitis vinifera | Plant | | | | Stitt, Paul. Why George should eat broccoli. |
| Zanthoxylum alatum | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Zea mays | Silk Stigma Style | | | | -- |
| Zea mays | Silk Essent. Oil | | 7000.0 | | -- |
| Zea mays | Husk Essent. Oil | | | | -- |
| Zea mays | Seed Essent. Oil | | | | -- |
| Zea mays | Leaf | | | | -- |
| Zingiber officinale | Rhizome | 17.0 | 1050.0 | 0.6650265305559545 | -- |
| Zingiber officinale | Rhizome Essent. Oil | | 21000.0 | 1.411888259893775 | -- |