

List of Plants



Chemid

BETALEMENE

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

| Plant | Part | Low PPM | High PPM | StdDev | *Reference |
|-----------------------|-------------------|---------|----------|--------|--|
| Achillea millefolium | Leaf | -- | -- | | * |
| Acinos alpinus | Shoot | -- | 10.0 | -0.31 | Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinos alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.) |
| Acorus calamus | Rhizome | 60.0 | 750.0 | 1.07 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Agastache rugosa | Essential Oil | -- | -- | | Jim Duke's personal files. |
| Agastache rugosa | Tissue Culture | -- | -- | | Jim Duke's personal files. |
| Agathosma betulina | Leaf Essent. Oil | -- | -- | | * |
| Ageratum conyzoides | Plant | 2.0 | 16.0 | -0.42 | * |
| Alpinia officinarum | Rhizome | -- | -- | | Wealth of India. |
| Anethum graveolens | Fruit | 12.0 | 77.0 | -0.46 | * |
| Anethum graveolens | Seed | 12.0 | 77.0 | -0.65 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Angelica archangelica | Root Essent. Oil | -- | -- | | * |
| Angelica archangelica | Root | -- | 90.0 | -1.0 | * |
| Aniba rosaeodora | Essential Oil | -- | -- | | * |
| Apium graveolens | Fruit Essent. Oil | -- | 35000.0 | 1.68 | * |
| Apium graveolens | Leaf Essent. Oil | -- | -- | | * |
| Apium graveolens | Seed | 1.0 | 875.0 | 1.41 | * |
| Apium graveolens | Leaf | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Apium graveolens | Seed Essent. Oil | -- | 35000.0 | | * |
| Arctium lappa | Root | -- | -- | | Jim Duke's personal files. |
| Artemisia capillaris | Essential Oil | -- | -- | | * |
| Artemisia annua | Plant | 3.0 | 80.0 | -0.18 | * |
| Boswellia sacra | Essential Oil | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Carum carvi | Essential Oil | -- | -- | | * |
| Carum carvi | Seed Essent. Oil | -- | -- | | * |
| Centella asiatica | Essential Oil | -- | 30000.0 | -0.49 | Jim Duke's personal files. |

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|----------------------------|----------------------|--------|---------|-------|---|
| Centella asiatica | Leaf | -- | -- | | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| Chrysanthemum x morifolium | Flower | -- | -- | | Wealth of India. |
| Chrysanthemum x morifolium | Plant | 2.0 | 6.0 | -0.45 | Wealth of India. |
| Cinnamomum verum | Leaf | -- | 120.0 | 0.21 | 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. |
| Cinnamomum camphora | Leaf | -- | -- | | * |
| Citrus reticulata | Fruit | 0.7 | 1.0 | -0.57 | * |
| Citrus aurantium | Plant | -- | -- | | * |
| Citrus sinensis | Pericarp Essent. Oil | -- | -- | | Jim Duke's personal files. |
| Citrus limon | Essential Oil | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Citrus sinensis | Fruit | 0.7 | 1.0 | -0.57 | * |
| Coleus barbatus | Root Essent. Oil | -- | 14000.0 | -1.0 | Jim Duke's personal files. |
| Collinsonia canadensis | Plant | -- | 16.0 | -0.42 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Copaifera spp | Gum | 3900.0 | 14400.0 | | * |
| Croton lechleri | Plant | -- | -- | | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Croton eluteria | Bark | -- | -- | | * |
| Cuminum cyminum | Seed | -- | 30.0 | -0.77 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Cuminum cyminum | Fruit | -- | 30.0 | -0.53 | * |
| Cymbopogon winterianus | Plant | 40.0 | 70.0 | -0.22 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Daucus carota | Plant | -- | -- | | * |
| Dracocephalum thymiflora | Plant | -- | 148.0 | 0.07 | * |
| Eucalyptus angulosa | Leaf | -- | 22.0 | -0.3 | 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 intertexta | Leaf | -- | 5.5 | -0.39 | 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 | -- | 25.0 | -0.29 | 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 leucoxylo | Leaf | -- | 5.5 | -0.39 | 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 | -- | 0.5 | -0.42 | 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 tereticornis | Shoot | -- | 35.0 | -0.22 | Zrira, S. S., Benjlilali, 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 siderophloia | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, 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 globulus | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, 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. |

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|----------------------------------|-------|----|-------|-------|---|
| <i>Eucalyptus dolichorhyncha</i> | Leaf | -- | 65.0 | -0.08 | 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 polyanthemus</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |
| <i>Eucalyptus cladocalyx</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |
| <i>Eucalyptus occidentalis</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |
| <i>Eucalyptus maideni</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |
| <i>Eucalyptus camaldulensis</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |
| <i>Eucalyptus cuprea</i> | Leaf | -- | 10.0 | -0.37 | 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> . <i>Flavour and Fragrance J.</i> 10(6):359-364 |
| <i>Eucalyptus blakelyi</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |
| <i>Eucalyptus albens</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |
| <i>Eucalyptus behriana</i> | Leaf | -- | 2.7 | -0.41 | 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> . <i>Flavour and Fragrance J.</i> 10(6):359-364 |
| <i>Eucalyptus populnea</i> | Leaf | -- | 8.0 | -0.38 | 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> . <i>Flavour and Fragrance J.</i> 10(6):359-364 |
| <i>Eucalyptus fasciculosa</i> | Leaf | -- | 1.3 | -0.41 | 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> . <i>Flavour and Fragrance J.</i> 10(6):359-364 |
| <i>Eucalyptus desquamata</i> | Leaf | -- | 15.0 | -0.34 | 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> . <i>Flavour and Fragrance J.</i> 10(6):359-364 |
| <i>Eucalyptus stoatei</i> | Leaf | -- | 150.0 | 0.37 | 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 saligna</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |
| <i>Eucalyptus forrestiana</i> | Leaf | -- | 55.0 | -0.13 | 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 diversicolor</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |
| <i>Eucalyptus paniculata</i> | Shoot | -- | 6.0 | -0.32 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |
| <i>Eucalyptus citriodora</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |
| <i>Eucalyptus moluccana</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, B. B., Fechtal, M. M., & Richard, H. H. 1991. Essential Oils of Twenty-seven <i>Eucalyptus</i> Species Grown in Morocco. <i>Journal of Essential Oil Res.</i> 4: 259-264. |

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| <i>Eucalyptus maculata</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, 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 odorata</i> | Leaf | -- | 4.4 | -0.4 | 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 |
| <i>Eucalyptus botryoides</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, 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 astringens</i> | Shoot | -- | 85.0 | -0.05 | Zrira, S. S., Benjlilali, 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 ochrophloia</i> | Leaf | -- | 0.5 | -0.42 | 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 |
| <i>Eucalyptus largisparsa</i> | Leaf | -- | 85.0 | 0.03 | 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 |
| <i>Eucalyptus melanophloia</i> | Leaf | -- | 1.0 | -0.41 | 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 |
| <i>Eucalyptus porosa</i> | Leaf | -- | 10.0 | -0.37 | 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 |
| <i>Eucalyptus tetraptera</i> | Leaf | -- | 120.0 | 0.21 | 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 |
| <i>Eucalyptus sideroxylon</i> | Shoot | -- | 40.0 | -0.2 | Zrira, S. S., Benjlilali, 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 punctata</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, 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 erythrandra</i> | Leaf | -- | 44.0 | -0.19 | 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 |
| <i>Eucalyptus dealbata</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, 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 oviformis</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, 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 ceratocorys</i> | Leaf | -- | 26.0 | -0.28 | 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 |
| <i>Eucalyptus melliodora</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, 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 incrassata</i> | Leaf | -- | 240.0 | 0.84 | 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 |
| <i>Eucalyptus lansdowneana</i> | Leaf | -- | 2.4 | -0.41 | 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 |
| <i>Eucalyptus bosistoana</i> | Shoot | -- | 0.1 | -0.34 | Zrira, S. S., Benjlilali, 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>Glechoma hederacea</i> | Plant | 9.0 | 53.0 | -0.28 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

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|--------------------------|------------------|------|-------|-------|---|
| Hedera helix | Leaf | -- | -- | | * |
| Hypericum perforatum | Plant | 0.25 | 4.5 | -0.46 | * |
| Hyssopus officinalis | Shoot | -- | 42.0 | -0.2 | 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 | -- | 42.0 | -0.2 | 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 | Plant | -- | -- | | * |
| Illicium verum | Fruit | 1.0 | 650.0 | 0.32 | * |
| Juniperus communis | Fruit | 10.0 | 100.0 | -0.43 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Laurus nobilis | Plant | -- | -- | | * |
| Laurus nobilis | Leaf Essent. Oil | -- | -- | | * |
| Levisticum officinale | Root | 12.0 | 125.0 | 1.0 | Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952. |
| Lindera benzoin | Fruit | 50.0 | 105.0 | -0.42 | * |
| Lindera benzoin | Leaf | -- | 0.5 | -0.42 | * |
| Lycium chinense | Fruit | -- | 360.0 | -0.07 | 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. |
| Magnolia denudata | Bulb | -- | -- | | * |
| Magnolia denudata | Twig | -- | -- | | * |
| Magnolia denudata | Bark | -- | -- | | * |
| Magnolia denudata | Leaf | -- | -- | | * |
| Marrubium vulgare | Plant | -- | -- | | * |
| Melaleuca alternifolia | Leaf | -- | 0.001 | -0.42 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Melissa officinalis | Shoot | 4.0 | 32.0 | -0.23 | Deutsche Apot. Ztit. 129(4):155-163. W. Schulze et al. Die Melisse. |
| Mentha aquatica | Shoot | -- | 65.0 | -0.12 | Umemoto, 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 longifolia | Shoot | -- | 275.0 | 0.59 | * |
| Mentha aquatica | Shoot | -- | 29.0 | -0.24 | Umemoto, 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 | -- | 65.0 | -0.12 | Umemoto, 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 | -- | 55.0 | -0.15 | Umemoto, 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 | -- | 29.0 | -0.24 | Umemoto, 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 spicata | Essential Oil | -- | -- | | * |
| Mentha spicata | Leaf | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Metrosideros sclerocarpa | Leaf | 47.0 | 188.0 | 0.57 | * |
| Micromeria varia | Shoot | -- | -- | -0.34 | 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. |

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|------------------------|--------------------|--------|----------|-------|--|
| Micromeria varia | Shoot | -- | -- | | * |
| Moldavica thymiflora | Plant | -- | 148.0 | 0.07 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Murraya koenigii | Leaf | 5.0 | 155.0 | 0.39 | * |
| Myroxylon balsamum | Plant | -- | -- | | * |
| Myrtus communis | Plant | 3.0 | 4.0 | -0.46 | * |
| Nepeta cataria | Plant | 4.0 | 155.0 | 0.1 | Bourel, C., Perineau, F., Michel, G., Bessiere, J.M. 1993. Catnip (Nepeta cataria L.) Essential Oil: Analysis of Chemical Constituents, Bacteriostatic and Fungistatic Properties. J. Ess. Oil Res., 5: 159-167. |
| Ocimum basilicum | Plant | -- | 12.0 | -0.43 | 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 basilicum | Essential Oil | -- | 16100.0 | -0.91 | * |
| Ocimum gratissimum | Shoot | -- | 425.0 | 1.1 | 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 tenuiflorum | Leaf | 120.0 | 1080.0 | 5.25 | * |
| Ocimum basilicum | Shoot Essent. Oil | 4900.0 | 81600.0 | 1.41 | * |
| Ocimum gratissimum | Plant | 5.0 | 65.0 | -0.24 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Opopanax chironium | Essential Oil | -- | -- | | * |
| Origanum vulgare | Plant | 6.0 | 30.0 | -0.36 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Origanum vulgare | Shoot Essent. Oil | -- | 1100.0 | -0.75 | * |
| Panax quinquefolius | Plant | -- | -- | | * |
| Panax ginseng | Flower Essent. Oil | -- | 29000.0 | | * |
| Panax ginseng | Root | -- | -- | | * |
| Panax ginseng | Shoot | -- | -- | | * |
| Panax ginseng | Root Essent. Oil | -- | 150000.0 | 1.0 | * |
| Pelargonium graveolens | Essential Oil | -- | -- | | * |
| Perilla frutescens | Shoot Essent. Oil | -- | 4000.0 | -0.67 | 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. |
| Petasites hybridus | Rhizome | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Petroselinum crispum | Leaf | -- | 5.4 | -0.39 | * |
| Pimenta dioica | Plant | -- | -- | | * |
| Pimpinella anisum | Seed Essent. Oil | -- | -- | | * |
| Pinus sylvestris | Essential Oil | -- | -- | | * |
| Piper nigrum | Fruit Essent. Oil | -- | 900.0 | -0.83 | * |
| Piper nigrum | Fruit | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Piper cubeba | Fruit Essent. Oil | -- | 10000.0 | -0.16 | * |
| Piper cubeba | Fruit | 1200.0 | 2400.0 | 2.72 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Pogostemon cablin | Plant | -- | -- | | * |

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|---------------------------------|---------------------|-------|---------|-------|---|
| <i>Pycnanthemum pilosum</i> | Leaf | 28.0 | 105.0 | 0.13 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum pilosum</i> | Flower | 28.0 | 105.0 | -1.0 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum virginianum</i> | Shoot | 240.0 | 1160.0 | 3.59 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum incanum</i> | Shoot | 22.0 | 190.0 | 0.3 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum tenuifolium</i> | Shoot | 16.0 | 1600.0 | 5.09 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Rheum palmatum</i> | Rhizome | -- | 0.5 | -1.34 | * |
| <i>Rosmarinus officinalis</i> | Resin, Exudate, Sap | -- | -- | | * |
| <i>Rosmarinus officinalis</i> | Shoot | 3.0 | 200.0 | 0.34 | Bandoni, A.L., Mizrahi, I., and Juarez, M.A. 1991. The Essential Oil of <i>Rosmarinus officinalis</i> Growing in Argentina. <i>J. Ess. Oil Res.</i> , 3: 11. |
| <i>Salvia gilliesii</i> | Shoot | -- | 5.5 | -0.32 | Velasco-Negueruela, A. et al. 1993. The Essential Oil of <i>Salvia gilliesii</i> Benth. <i>J. Ess. Oil Res.</i> 5: 319-320. |
| <i>Saussurea lappa</i> | Root | -- | -- | | * |
| <i>Scutellaria lateriflora</i> | Essential Oil | -- | 92000.0 | 1.39 | * |
| <i>Scutellaria baicalensis</i> | Root Essent. Oil | -- | -- | | * |
| <i>Stevia rebaudiana</i> | Leaf | -- | 6.0 | -0.39 | Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. <i>Stevia. The genus Stevia.</i> Taylor & Francis. New York, NY. 211 pp. |
| <i>Stevia rebaudiana</i> | Flower | -- | 110.0 | 1.0 | Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. <i>Stevia. The genus Stevia.</i> Taylor & Francis. New York, NY. 211 pp. |
| <i>Tagetes lucida</i> | Shoot | -- | 18.0 | -0.28 | Bicchi, C., Fresia, M., Rubiolo, P., Monti, D., Franz, C., Goehler, I. 1997. Constituents of <i>Tagetes lucida</i> Cav. ssp. <i>lucida</i> essential oil. <i>Flavor & Fragrance</i> , 12(1): 47-52. |
| <i>Tamarindus indica</i> | Fruit Essent. Oil | -- | 3000.0 | -0.68 | * |
| <i>Tanacetum vulgare</i> | Plant | -- | -- | | * |
| <i>Thymus funkii</i> | Shoot | -- | -- | -0.34 | 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 funkii</i> | Shoot | -- | -- | -0.34 | 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>Umbellularia californica</i> | Plant | 280.0 | 1120.0 | 3.67 | * |
| <i>Valeriana officinalis</i> | Root | -- | -- | | * |
| <i>Zingiber officinale</i> | Rhizome Essent. Oil | -- | 3000.0 | | * |
| <i>Zingiber officinale</i> | Rhizome | 2.0 | 500.0 | 0.27 | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. |