

| Plant Name | Plant Part | Low Parts Per Million | High Parts Per Million | Standard Deviation | Reference |
|--|---------------------|------------------------------|-------------------------------|---------------------------|--|
| Acacia farnesiana | Flower | not available | not available | not available | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. |
| Achillea millefolium | Leaf | 0.3 | 11.0 | -0.9 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Artemisia annua | Leaf | not available | not available | not available | Father Nature's Farmacy: The aggregate of all these three-letter citations. |
| Artemisia herba-alba | Plant | not available | not available | not available | Duke, 1992 * |
| Cinnamomum aromaticum | Plant | not available | not available | not available | Duke, 1992 * |
| Cinnamomum camphora | Plant | not available | not available | not available | Duke, 1992 * |
| Cinnamomum verum | Bark | 4.0 | 100.0 | not available | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Commiphora myrrha | Resin, Exudate, Sap | not available | not available | not available | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| Cuminum cyminum | Fruit | 4000.0 | 16000.0 | 1.0 | Duke, 1992 * |
| Daucus carota | Seed | not available | not available | not available | Duke, 1992 * |
| Eucalyptus globulus | Leaf | 25.0 | 135.0 | 0.3 | Duke, 1992 * |
| Ferula jaeschkeana | Fruit | not available | 494.0 | -1.0 | Duke, 1992 * |
| Hyssopus officinalis | Shoot | 4.0 | 7.0 | -0.3 | Indian Perfumer, 35: 52. |
| Lavandula angustifolia | Flower | not available | not available | not available | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Lavandula latifolia | Plant | 3.0 | 42.0 | -1.0 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Lavandula x intermedia | Plant | not available | not available | not available | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Monarda fistulosa | Plant | 1.0 | 62.0 | 1.0 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Peumus boldus | Leaf | 16.0 | 75.0 | -0.3 | Duke, 1992 * |
| Pinus mugo | Leaf | not available | not available | not available | Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952. |
| Pinus sylvestris | Leaf | not available | not available | not available | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Salvia sclarea | Plant | not available | not available | not available | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| Aegle marmelos | Leaf | not available | 300.0 | 1.8 | Duke, 1992 * |
| Calamintha nepeta | Leaf | not available | not available | not available | 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. |
| Lavandula x hybrida | Shoot | 5.0 | 8.0 | -0.3 | Tucker, A.O., Maciarelli, M.J., Angell, S., Espaillat, 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. |

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|---|-------------------|------------------------------|-------------------------------|---------------------------|--|
| <u>Origanum minutiflorum</u> | Shoot | not available | 5.0 | -0.3 | 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. |
| <u>Nepeta racemosa</u> | Shoot | not available | 34.0 | -0.1 | 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. |
| <u>Nepeta racemosa</u> | Shoot | not available | 34.0 | -0.1 | 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. |
| <u>Thymus longicaulis</u> | Shoot | not available | 0.0 | -0.3 | 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. |
| <u>Thymus longicaulis</u> | Shoot | not available | 0.0 | -0.3 | 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. |
| <u>Thymus longicaulis</u> | Shoot | not available | 0.0 | -0.3 | 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. |
| <u>Artemisia salsoloides</u> | Shoot | not available | 1000.0 | 5.4 | V. Kaul, P. Weyerstahl, H. Wahlberg, H. Marschall, (1992); Volatile constituents of the essential oil and the absolute of Aremsia salsoloides Willd. from Ladakh, Flavour and Fragrance journal, Vol.7, 299-305. |
| <u>Cinnamomum aromaticum</u> | Bark | not available | not available | not available | Wealth of India. |
| <u>Stevia rebaudiana</u> | Flower | not available | not available | not available | Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp. |
| <u>Stevia rebaudiana</u> | Leaf | not available | not available | not available | Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp. |
| <u>Cnicus benedictus</u> | Shoot | not available | not available | not available | Jim Duke's personal files. |
| <u>Syzygium aromaticum</u> | Fruit | not available | not available | not available | Duke, 1992 * |
| <u>Cuminum cyminum</u> | Seed | 4000.0 | 16000.0 | not available | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <u>Eucalyptus albens</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus astringens</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus blakelyi</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus bosistoana</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus botryoides</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus camaldulensis</u> | Shoot | not available | 22.0 | -0.2 | 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. |
| <u>Eucalyptus citriodora</u> | Shoot | not available | 0.1 | -0.3 | 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. |

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| <u>Eucalyptus cladocalyx</u> | Shoot | not available | 43.0 | -0.1 | 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. |
| <u>Eucalyptus dealbata</u> | Shoot | not available | 125.0 | 0.4 | 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. |
| <u>Eucalyptus diversicolor</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus globulus</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus maculata</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus maideni</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus melliodora</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus moluccana</u> | Shoot | not available | 325.0 | 1.5 | 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. |
| <u>Eucalyptus occidentalis</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus oviformis</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus polyanthemos</u> | Shoot | not available | 50.0 | 0.0 | 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. |
| <u>Eucalyptus punctata</u> | Shoot | not available | 110.0 | 0.3 | 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. |
| <u>Eucalyptus saligna</u> | Shoot | not available | 16.0 | -0.2 | 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. |
| <u>Eucalyptus siderophloia</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus sideroxylon</u> | Shoot | not available | 0.1 | -0.3 | 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. |
| <u>Eucalyptus sp</u> | Plant | not available | not available | not available | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| <u>Eucalyptus tereticornis</u> | Shoot | not available | 40.0 | -0.1 | 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. |
| <u>Chrysanthemum parthenium</u> | Shoot | not available | 0.0 | -0.3 | 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. |

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|---|-------------------|------------------------------|-------------------------------|---------------------------|---|
| <u>Cinnamomum verum</u> | Leaf | not available | 9.4 | -0.9 | 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. |
| <u>Cuminum cyminum</u> | Essential Oil | not available | 350000.0 | -1.0 | Duke, 1992 * |
| <u>Cuminum cyminum</u> | Seed Essent. Oil | 205100.0 | 480000.0 | not available | Duke, 1992 * |
| <u>Tanacetum parthenium</u> | Shoot | not available | 0.0 | -0.3 | 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. |
| <u>Cinnamomum verum</u> | Root Bark | not available | not available | not available | Duke, 1992 * |
| <u>Cinnamomum verum</u> | Bark Essent. Oil | not available | 2500.0 | not available | Duke, 1992 * |
| <u>Cinnamomum verum</u> | Stem Bark | not available | not available | not available | Duke, 1992 * |
| <u>Carum carvi</u> | Essential Oil | not available | 370000.0 | 1.0 | Duke, 1992 * |
| <u>Carum carvi</u> | Plant | not available | not available | not available | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| <u>Acacia farnesiana</u> | Plant | not available | not available | not available | Duke, 1992 * |
| <u>Commiphora myrrha</u> | Essential Oil | not available | not available | not available | Duke, 1992 * |
| <u>Artemisia annua</u> | Shoot | 4.0 | 160.0 | 0.6 | 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. |
| <u>Eruca sativa</u> | Hs | not available | not available | not available | Duke, 1992 * |