**Dr. Duke's Phytochemical and Ethnobotanical Database**

**List of Plants for CIS-BETA-OCIMENE**

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|---|---|---|---|---|---|
| Acinos alpinus | Shoot | 4 | 4 | -0.5300084189646802 | Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.) |
| Acinos alpinus | Shoot | -- | 4 | -0.5300084189646802 | Velasco-Negueruela,A., Perez-Alonso,M.J., Jiminez,S.M. and Garcia,F.M. 1993. The Volatile Constituents of Acinus alpinus (L.) Moench ssp. meridionalis (Nyman). P.W. Ball Growing in Spain. Flav. & Frag. J. 8:127-130.) |
| Agathosma betulina | Leaf Essent. Oil | -- | -- | | -- |
| Alpinia galanga | Rhizome Essent. Oil | -- | 20500 | | -- |
| Alpinia galanga | Leaf Essent. Oil | -- | 20500 | | -- |
| Angelica sinensis | Root Essent. Oil | -- | 121800 | | Jim Duke's personal files. |
| Apium graveolens | Seed Essent. Oil | -- | -- | | -- |
| Artemisia dracunculus | Essential Oil | -- | -- | | -- |
| Artemisia dracunculus | Leaf | -- | -- | | -- |
| Boswellia sacra | Resin Essent. Oil | -- | 2000 | | 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. |
| Camellia sinensis | Leaf | -- | -- | | -- |
| Carum carvi | Seed | -- | -- | | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|---|---|---|---|---|---|
| Hedychium flavum | Shoot | -- | 10 | -0.49092399924214514 | -- |
| Hesperis matronalis | 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 Hesperis matronalis Flowers. Phytochemistry, 38(4): 847-851. |
| Hyssopus officinalis | Flower | 0.6 | 6 | | -- |
| Hyssopus officinalis | Leaf | 0.1 | 720 | 1.414213562373095 | -- |
| Hyssopus officinalis | Shoot | 200 | 200 | 0.7467492919714654 | Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781. |
| Hyssopus officinalis | Shoot | -- | 50 | -0.23036120109191133 | Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781. |
| Hyssopus officinalis | Shoot | -- | 110 | 0.1604829961334394 | Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781. |
| Hyssopus officinalis | Shoot | -- | 10 | -0.49092399924214514 | Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781. |
| Hyssopus officinalis | Shoot | -- | -- | | Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781. |
| Hyssopus officinalis | Shoot | -- | 10 | -0.49092399924214514 | Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781. |
| Hyssopus officinalis | Shoot | -- | 100 | 0.09534229659588093 | Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|---|---|---|---|---|---|
| Hyssopus officinalis | Shoot | -- | 80 | -0.03493910247923596 | Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781. |
| Hyssopus officinalis | Shoot | -- | 200 | 0.7467492919714654 | Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (Hyssopus officinalis L.) J. Agric. Food Chem. 42: 776-781. |
| Illicium verum | Fruit | 100 | 100 | | -- |
| Lantana camara | Shoot | -- | 1 | -0.5495506288259477 | -- |
| Mentha aquatica | Shoot | 5 | 5 | -0.5234943490109244 | 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 | -- | 8 | -0.5039521391496569 | 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 | -- | 8 | -0.5039521391496569 | 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 | -- | 5 | -0.5234943490109244 | 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 | -- | 2 | -0.5430365588721919 | 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. |
| Micromeria fruticosa | Leaf | 120 | 120 | -0.7071067811865475 | 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. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|---|---|---|---|---|---|
| Micromeria varia | Shoot | 0 | 0 | -0.5560646987797035 | 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 varia | Shoot | -- | 0 | -0.5560646987797035 | -- |
| Ocimum suave | Shoot | 540 | 540 | 2.9615330762484526 | J. Nat. Prod. 44: 308. |
| Origanum vulgare | Shoot Essent. Oil | -- | 270000 | | -- |
| Pastinaca sativa | Root | -- | -- | | -- |
| Perilla frutescens | Shoot Essent. Oil | -- | -- | | 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 | Plant | -- | -- | | -- |
| Petroselinum crispum | Leaf | -- | -- | | -- |
| Pimenta dioica | Leaf Essent. Oil | -- | -- | | -- |
| Pinus sylvestris | Leaf | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| Psidium guajava | Pericarp Essent. Oil | -- | -- | | -- |
| Ravensara aromatica | Leaf | -- | 120 | -0.7071067811865475 | -- |
| Ribes nigrum | Fruit | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Rosmarinus officinalis | Shoot | -- | 6 | -0.5169802790571685 | Tucker, A. O. and Maciarello, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|---|---|---|---|---|---|
| Salvia officinalis | Leaf Essent. Oil | -- | -- | | -- |
| Salvia sclarea | Plant | 2.4 | 24 | 1 | Flavour and Fragrance Journal, 6: 154. |
| Satureja cuneifolia | Shoot | 525 | 525 | 2.863822026942115 | Tumen, G. 1991. The Volatile Constituents of Satureja cuneifolia. J. Ess. Oil Res., 3: 365-366. |
| Tagetes filifolia | Leaf Essent. Oil | -- | -- | | Zygadlo, 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. |
| Thymus x citriodorus | Plant | 20 | 20 | -1 | 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. |
| Trifolium pratense | Leaf | -- | -- | | -- |
| Trifolium pratense | Flower | -- | -- | | -- |
| Trifolium pratense | Fruit | -- | -- | | -- |