

New investigation on essential oils of *Cinnamomum Camphora* (L.) Sieb. var. *Linaloolifera* from Vietnam

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NEW INVESTIGATION ON ESSENTIAL OILS OF *CINNAMOMUM*
CAMPHORA (L.) Sieb. var. *Linaloolifera* FROM VIETNAMPhạm VĂN KHIỂN, Nguyễn XUÂN DŨNG, Hồ TRUNG CHIẾN and
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The chemical composition of leaf, bark and wood oils of Malaysian *C. camphora* Presl. was examined recently [1]. The leaf oil contained 95% of linalool. The bark and wood oils, however, consisted mainly of camphor (30/44%), linalool (19/32%), safrole (24/30%) and limonene (6/8%). The oils of shoots, fruits and peduncles of Japanese *C. camphora* Sieb. have been investigated by Fujita et al.[2]. These fruit oils contained 30-43% of camphor and 36-59% of safrole, while the oils of shoots and peduncles contained 78-91% of camphor. The essential oil of the fruits of Chinese *C. camphora* Presl. var. *linaloolifera* was reported to contain mainly eugenol (41-51%), safrole (24-53%) and β -terpineol (11-18%). In addition, 30 minor constituents were identified [3].

The fruit, flower, leaf, twig, bark, wood and root oils of *C. camphora* (L.) Sieb. var. *linaloolifera* from Vietnam was analyzed using a combination of Capillary GC and GC/MS. A lot of components were found, of which linalool is a main compound of fruit (60.2%), flower (60.0-62.0%), leaf (70.7-96.5%) [4], twig (80.2%), bark (64.8%), wood (66.9%) and root oils (28.0%). It was found that root oil apart from linalool also contained camphor (19.0%), α -terpineol (16.0%) and 1,8-cineole (15.7%).

The main constituent was isolated by flash Chromatography, and its structure was confirmed by IR spectrometry.

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