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PALMITONE FROM THE FRUITS OF LINDERA CITRIODORA

H. Komae, N. Hayashi and S. Kosela

Department of Chemistry, Faculty of General Education, Hiroshima University, Hiroshima, Japan

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Abstract—Palmitone (n-hentriacontan-16-one) was isolated from the ether extractive of the fruits of *Lindera citriodora*.

Plant. Lindera citriodora (Sieb. et Zucc.) Hemsl.

Occurrence. Nagasaki Prefecture, Japan.

Previous work. None.

Date. Collected in October 1970.

Fruits. Minced the fruits (1·3 kg) and extracted with Et₂O. The ether extract, on standing in refrigerator, gave a crystalline substance (150 mg, 0·011%). Recrystallization from warm EtOH gave colourless crystals m.p. 84–85°, $C_{31}H_{62}O$ (M⁺ 450·4835, Calc. 450·4800). Identified mixed m.p., GLC (SE-30, 5%, at 280°), IR, NMR, MS comparing with those of synthetic palmitone.¹

¹ N. HAYASHI, K. TAKESHITA, H. NISHIO and S. HAYASHI, Flavour Ind. 1, 405 (1970).

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TERPENIC CONSTITUENTS FROM MACHILUS JAPONICA

H. Komae and N. Hayashi

Department of Chemistry, Faculty of General Education, Hiroshima University, Hiroshima, Japan

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Abstract—Nine terpenic constituents, α -pinene, camphene, β -pinen, β -phellandrene, bornylacetate, geranylacetate, β -elemene, caryophyllene, and elemol were isolated from the essential oil of the fresh leaves of Machilus japonica Sieb. et Zucc.

Plant. Machilus japonica Sieb. et Zucc.

Source. Ehime Prefecture, Japan.

Uses. No uses known.

Previous work. None in the literature.

Leaves. The essential oil (0.6 g, 0.03% yield) was isolated by steam distillation from the fresh leaves (1.8 kg). The individual constituents were isolated by preparative GLC (Carbowax 20 M—20%, at 120°, 180°) and identified by IR spectrum and GLC.

Constituents. a-Pinene (3.4%), camphene (1.1%), β -pinene (5.5%), β -phellandrene (14.7%), bornylacetate (6.5%), geranylacetate (9.4%), β -elemene (2.5%), caryophyllene (18.6%), elemol (3.4%) and unidentified (34.9%).

РНУТО 10/12—Р