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PALMITONE FROM THE FRUITS OF *LINDERA CITRIODORA*

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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°, C₃₁H₆₂O (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*

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Abstract—Nine terpenic constituents, α -pinene, camphene, β -pinene, 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. α -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%).