

1645 (Sesquiterpene)

Name: Laurokamurene B {1-Methyl-4-(4,5,5-trimethyl-cyclopent-1-enyl)-benzene}

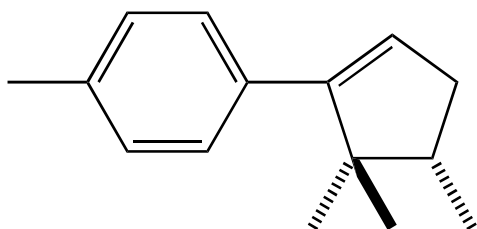
Origin: *Laurencia okamurai* (the coast of Nanji Island, Zhejiang Province, China)⁽¹⁾:

Formula: C₁₅H₂₀

Mol. Wt.: 200.32

Opt. Rot.: [α]_D²⁴ +10.0 (CHCl₃)

Mp: Oil



References and Notes

(1) Mao, S.-C. and Guo, Y.-W. 2006. *J. Nat. Prod.*, **69**, 1209-1211. A laurane sesquiterpene and rearranged derivatives from the Chinese red alga *Laurencia okamurai* Yamada.

(UV, IR, ¹H-NMR, ¹³C-NMR)

(along with laurokamurene A, laurokamurene B, 3β-hydroxyaplysin, 3α-hydroxydebromoaplysin, debromoaplysin, laurinterol)

(2) **Total synthesis**; (a) Srikrishna, A., Beeraiyah, B., and Babu, R. R. 2008. *Tetrahedron Asym.*, **19**, 624-627. Enantioselective total synthesis and assignment of the absolute configuration of (+)-laurokamerene B.; (b) Das, M. K., Dinda, B. K., and Bisai, V. 2019. *Tetrahedron Lett.*, **60**, 2039-2042.

A unified approach to sesquiterpenes sharing trimethyl(*p*-tolyl)cyclopentanes: Formal total synthesis of (*dl*)-laurokamurene B.