

7314 (Miscellaneous)

Name: Isosphaerodiene-1

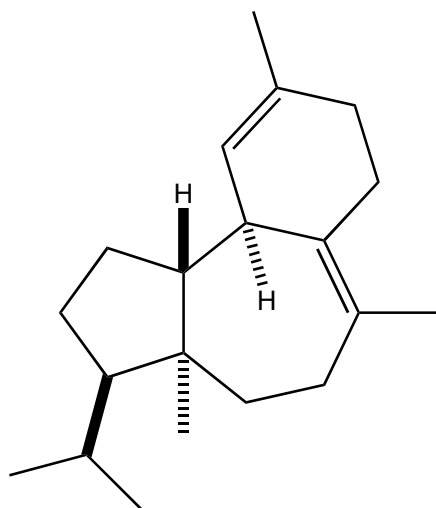
Origin: *Sphaerococcus coronopifolius* (near Massalubrense, Bay of Naples, Italy)⁽¹⁾;
Sphaerococcus coronopifolius (Palaiokastritsa Bay, the west coast of Corfu Island,
Greece)⁽⁴⁾;

Formula: C₂₀H₃₂

Mol. Wt.: 272.47

Opt. Rot.: [α]_D +28 (CHCl₃)^(2a)

Mp.: Oil⁽¹⁾; 58-59^(2b)



References and Notes

(1) Cafieri, F., De Napoli, L., Fattorusso, E., and Santacroce, C. 1987. *Phytochemistry*, **26**, 471-473. Diterpenes from the red alga *Sphaerococcus coronopifolius*.

(together with 12*S*-hydroxybromosphaerodiol, 12*R*-hydroxybromosphaerol, [isosphaerodiene-1](#), isosphaerodiene-2)

(2) **Dehydration Product of presphaerol**; (a) Cafieri, F., de Napoli, L., Fattorusso, E., Piattelli, M., and Sciuto, S. 1979. *Tetrahedron Lett.*, **20**, 963-966. Presphaerol, a new rearranged diterpenes from the alga *Sphaerococcus coronopifolius*. (¹H-NMR); (b) Cafieri, F., Fattorusso, E., Di Blasio, B., and Pedon, C. 1981. *Tetrahedron Lett.*, **22**, 4123-4126. Diterpenes from the red alga *Sphaerococcus coronopifolius*. Structure of sphaerodiene and reassignment of structure of presphaerol.

(X-ray crystallographic analysis)

(3) Smyrniotopoulos, V., Vagias, C., and Roussis, V. 2009. *Mar. Drugs*, **7**, 184-195. Sphaeroane and neodolabellane diterpenes from the red alga *Sphaerococcus coronopifolius*.

(¹H-NMR, ¹³C-NMR) (together with sphaerollane I, sphaerollane II, 16-hydroxy-9*S**-acetoxy-8-*epi*-isosphaerodiene-2, presphaerol, [isosphaerodiene-1](#))