

7307 (Miscellaneous)

Name: Bromosphaerodiol

Origin: *Sphaerococcus coronopifolius* (near Portopalo, Sicily, Italy)⁽¹⁾;

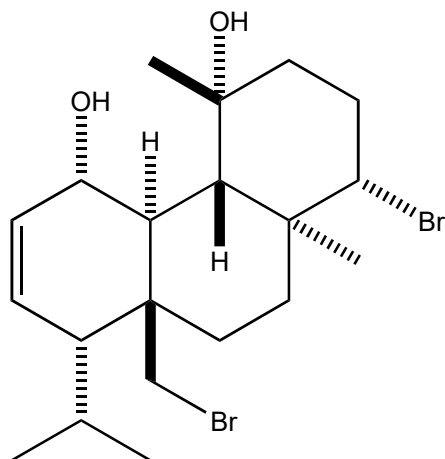
Sphaerococcus coronopifolius (the west coast of Corfu Island, Greece)⁽²⁾;

Formula: C₂₀H₃₂Br₂O₂

Mol. Wt.: 464.27

Opt. Rot.: [α]_D -44.3 (CHCl₃)⁽¹⁾; [α]_D²⁰ -33.6 (CHCl₃)⁽²⁾

Mp.: 170-172⁽¹⁾; Crystalline solid⁽²⁾



References and Notes

(1) Cafieri, F., De Napoli, L., Fattorusso, E., Impellizzeri, G., Piattelli, M., and Sciuto, S. 1977. *Experientia*, **33**, 1549-1550. Bromosphaerodiol, a minor bromo compound from the red alga *Sphaerococcus coronopifolius*. (IR, ¹H-NMR, MS)

(2) Smyrniotopoulos, V., Quesada, A., Vagias, C., Moreau, D., Roussakis, C., and Roussis, V. 2008. *Tetrahedron*, **64**, 5184-5190. Cytotoxic bromoditerpenes from the red alga *Sphaerococcus coronopifolius*. (¹H-NMR, ¹³C-NMR, MS) (together with 3 new bromoditerpene, 6 known diterpenes; 1-hydroperoxybromosphaerane I, bromosphaerodiol, 12*R*-hydroxybromosphaerol, 12*S*-hydroxybromosphaerol, bromosphaerol, sphaerococcenol A)