

7305 (Miscellaneous)

Name: 12*R*-Hydroxybromosphaerol

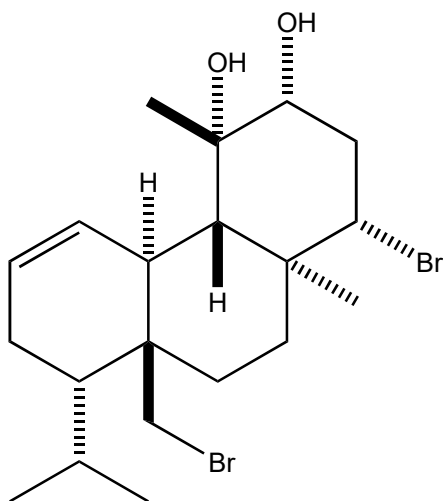
Origin: *Sphaerococcus coronopifolius* (near Massalubrense, Bay of Naples, Italy)⁽¹⁾;
Sphaerococcus coronopifolius (the west coast of Corfu Island, Greece)⁽²⁾;
Sphaerococcus coronopifolius (Berlenga Nature Reserve, Peniche, Portugal)⁽³⁾;

Formula: C₂₀H₃₂Br₂O₂

Mol. Wt.: 464.27

Opt. Rot.: [α]_D -34 (CHCl₃)⁽¹⁾; [α]_D²⁰ -43.8 (CHCl₃)⁽²⁾

Mp.: 89-92⁽¹⁾; Oil⁽²⁾



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*. (IR, ¹H-NMR, ¹³C-NMR) (together with 12*S*-hydroxybromosphaerodiol, [12*R*-hydroxybromosphaerol](#), isosphaerodiene-1, isosphaerodiene-2)
- (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)
- (3) Rodrigues, D., Alves, C., Horta, A., Pinteus, S., Silva, J., Culioli, G., Thomas, O. P., and Podrosa, R. 2015. *Mar. Drugs*, **13**, 713-726. Antitumor and antimicrobial potential of bromoditerpenes isolated from the red alga, *Sphaerococcus coronopifolius*. (IR, ¹H-NMR, ¹³C-NMR) (together with sphaerodactylomelol, bromosphaerol, 12*S*-hydroxybromosphaerol, [12*R*-hydroxybromosphaerol](#), sphaerococcenol A)