

## 7301-1 (Miscellaneous)

Name: Sphaerococcenol A

Origin: *Sphaerococcus coronopifolius* (near La Escala, Spain)<sup>(1)</sup>;

*Sphaerococcus coronopifolius* (near Plomin, Yugoslavia)<sup>(2)</sup>;

*Sphaerococcus coronopifolius* (El Jadida on the Atlantic coast of Morocco)<sup>(3)</sup>;

*Sphaerococcus coronopifolius* (the west coast of Coefu Island, Greece)<sup>(4)</sup>;

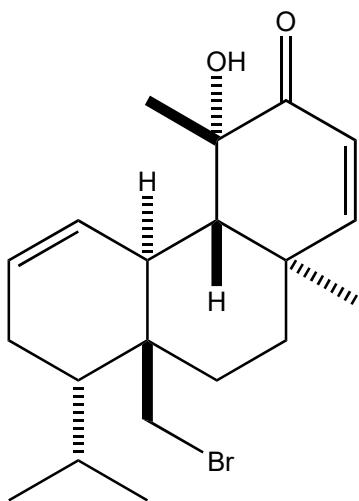
*Sphaerococcus coronopifolius* (Berlenga Nature Reserve, Peniche, Portugal)<sup>(5)</sup>;

Formula: C<sub>20</sub>H<sub>29</sub>BrO<sub>2</sub>

Mol. Wt.: 381.35

Opt. Rot.: [α]<sub>D</sub><sup>25</sup> -93 (CHCl<sub>3</sub>)<sup>(1)</sup>; [α]<sub>D</sub> -78 (CHCl<sub>3</sub>)<sup>(2)</sup>

Mp.: 184-185 (from CCl<sub>4</sub>)<sup>(1)</sup>; 181-183<sup>(2)</sup>



### References and Notes

- (1) Fenical, W., Finer, J., and Clardy, J. 1976. Tetrahedron Lett., **17**, 731-734. Sphaecoccenol A; Anew rearranged bromo-diterpene from the red alga *Sphaerococcus coronopifolius*.
- (X-ray crystallographic analysis) (UV, IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR, MS)**
- (2) De Rosa, S., De Stefano, S., Scarpelli, P., and Zavodnik, N. 1988. Phytochemistry, **27**, 1875-1878. Terpenes from the red alga *Sphaerococcus coronopifolius* of the north Adriatic Sea.
- (UV, IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR, MS)** (together with sphaeroxetane, **sphaerococcenol A**, bromosphaerol, alloaromadendrene)
- (3) Etahiri, S., Bultel-Ponce, V., Caux, C., and Guyot, M. 2001. J. Nat. Prod., **64**, 1024-1027. New bromoditerpenes from the red alga, *Sphaerococcus coronopifolius*. (**<sup>1</sup>H-NMR, <sup>13</sup>C-NMR**) (together with sphaerolabdadiene-3,14-diol, bromosphaerone, 12S-hydroxybromosphaerol, **sphaerococcenol A**)
- (4) 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*. (together with 3 new bromoditerpene, 6 known diterpenes; 1-hydroperoxybromosphaerane I, bromosphaerol, bromosphaerol, 12R-hydroxybromosphaerol, 12S-hydroxybromosphaerol, bromosphaerol, **sphaerococcenol A**)

(Continue to 7301-2)

**7301-2; (Miscellaneous) Sphaerococcenol A**

**References and Notes**

**(Continue from 7301-1)**

- (5) Rodrigues, D., Alves, C., Horta, A., Pinteus, S., Silva, J., Culoli, 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, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR**)  
(together with sphaerodactylomelol, bromosphaerol, 12S-hydroxybromosphaerol,  
12R-hydroxybromosphaerol, **sphaerococcenol A**)