

## 4312 (C15 acetogenin)

Name: Tetrabromo oxane-oxolane acetylene

{2-[Bromo-(3,5-dibromo-6-ethyl-tetrahydro-pyran-2-yl)-methyl]-  
5-(1-bromo-prop-2-ynyl)-tetrahydro-furan-3-ol}

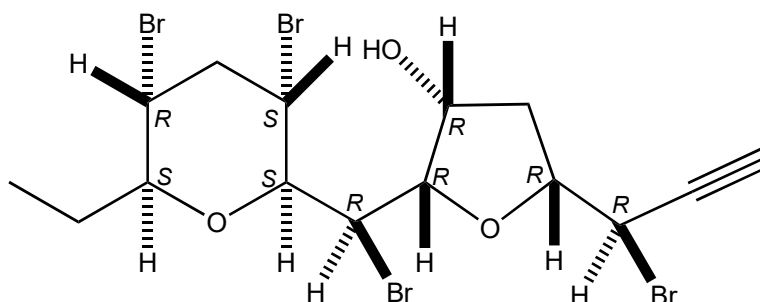
Origin: *Laurencia paniculata* (Cesmealti near Izmir, Turkey)<sup>(1)</sup>;  
*Laurencia obtusa* (Preveza in the Ionean Sea, Greece)<sup>(2)</sup>;  
*Mycale rotalis* (Stagnone di Marsala lagoon, Sicily, Italy)<sup>(3)</sup>;

Formula: C<sub>15</sub>H<sub>20</sub>Br<sub>4</sub>O<sub>3</sub>

Mol. Wt.: 567.93

Opt. Rot.: [ $\alpha$ ]<sub>D</sub><sup>25</sup> +28.9 (CHCl<sub>3</sub>)<sup>(1)</sup>; [ $\alpha$ ]<sub>D</sub><sup>25</sup> +13.9 (CHCl<sub>3</sub>)<sup>(3)</sup>

Mp.: 142-143<sup>(1)</sup>; 139-141<sup>(3)</sup>



### References and Notes

- (1) Imre, S., Aydogmus, Z., Güner, H., Lotter, H., and Wagner, H. 1995. *Z. Naturforsch.*, **50c**, 743-747. Polybrominated non-terpenoid C<sub>15</sub> compounds from *Laurencia paniculata* and *Laurencia obtusa*. (X-ray crystallographic analysis) (IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR, MS)
- (2) Mihopoulos, N., Vagias, C., Scoullou, M., and Roussis, V. 1999. *Nat. Prod. Lett.*, **13**, 151-156. Laurencienyne, a new acetylenic cyclic ether from the red alga *Laurencia obtusa*. (together with laurencienyne, laurencienyne B, two sesquiterpenes)
- (3) **From the sponge**; Giordano, F., Mayol, L., Notaro, G., Piccialli, V., and Sica, D. 1990. *J. Chem. Soc., Chem. Commun.*, **1990**, 1559-1561. Structure and absolute configuration of two new polybrominated C<sub>15</sub> acetogenins from the sponge *Mycale rotalis*. (X-ray crystallographic analysis)