

4313 (C15 acetogenin)

Name: Tribromo oxixane-oxolane-oxolane acetylene

{3-[Bromo-(3,5-dibromo-6-ethyl-tetrahydro-pyran-2-yl)-methyl]-
6-ethynyl-2,5-dioxo-bicyclo[2.2.1]heptane}

Origin: *Laurencia paniculata* (Cesmealti near Izmir, Turkey)⁽¹⁾;

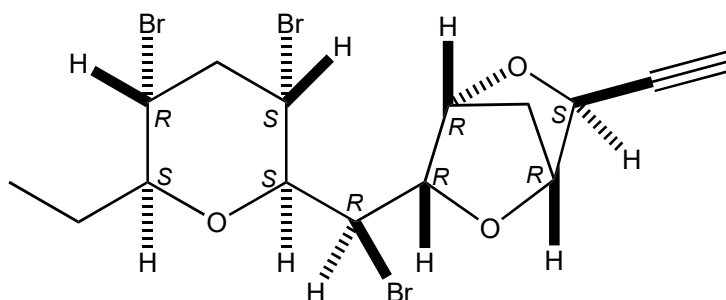
Mycale rotalis (Stagnone di Marsala lagoon, Sicily, Italy)⁽²⁾;

Formula: C₁₅H₁₉Br₃O₃

Mol. Wt.: 487.02

Opt. Rot.: [α]_D²⁵ -33.3 (CHCl₃)⁽²⁾

Mp.: 145-147⁽¹⁾; 163-164⁽²⁾



References and Notes

(1) Imre, S., Aydogmus, Z., Güner, H., Lotter, H., and Wagner, H. 1995. *Z. Naturforsch.* **50c**, 743-747. Polybrominated non-terpenoid C₁₅ compounds from *Laurencia paniculata* and *Laurencia obtusa*.

(X-ray crystallographic analysis) (IR, ¹H-NMR, ¹³C-NMR, MS)

(2) **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 C₁₅ acetogenins from the sponge *Mycale rotalis*. (X-ray crystallographic analysis)