

1277 (Sesquiterpene)

Name: *ent*-(*E*)-(9*R*,10*S*)-10,15-Dibromochamigra-1,3(15),7(14)-trien-9-ol
{2-Bromo-9-bromomethylene-1,1-dimethyl-5-methylene-spiro[5.5]undec-7-en-3-ol}

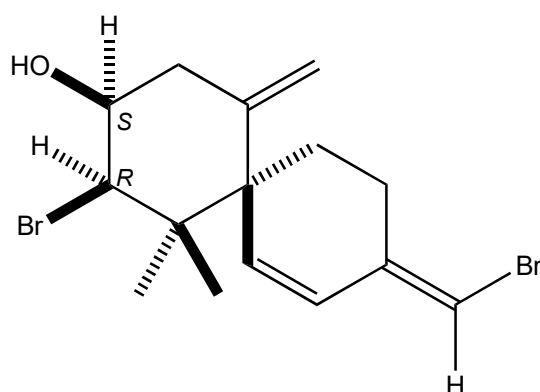
Origin: *Laurencia majuscula* (Zoe Bay, Hinchinbrook Island, North Queensland, Australia)⁽¹⁾;
Laurencia majuscula (Florence Bay, Magnetic Island, North Queensland, Australia)⁽²⁾;
Laurencia cartilaginea (Ma'ili Pt. Park, , Wai'anae coast of O'ahu, Hawaii, USA)⁽³⁾;
Laurencia tristicha (the coast of Hsiao Liuchiu Island, Taiwan)⁽⁴⁾;

Formula: C₁₅H₂₀Br₂O

Mol. Wt.: 376.13

Opt. Rot.: [α]_D -40 (CHCl₃)⁽¹⁾; [α]_D²⁵ -58 (CHCl₃)⁽⁴⁾

Mp.: Oil



References and Notes

- (1) Coll, J. C. and Wright, A. D. 1989. Aust. J. Chem., **42**, 1591-1603. Tropical marine algae. III. New sesquiterpenes from *Laurencia majuscula*. (Rhodophyta, Rhodophyceae, Ceramiales, Rhodomelaceae). (UV, IR, ¹H-NMR, ¹³C-NMR, MS) (together with triquinane sesquiterpene, four chamigrane sesquiterpenes, isorhodolaureol)
- (2) Wright, A. D., Coll, J. C., and Price, I. R. 1990. J. Nat. Prod., **53**, 845-861. Tropical marine algae, VII. The chemical composition of marine algae from North Queensland waters. (together with 10-bromochamigra-2,7(14)-dien-9-ol, isoobtusadiene, 2 known chamigranes, new and known triquinanes)
- (3) Juagdan, E. G., Kalidindi, R, and Scheuer, P. 1997. Tetrahedron, **53**, 521-528. Two new chamigranes from an Hawaiian red alga, *Laurencia cartilaginea*. (together with ma'ilione, *allo*-isoobtusol, elatol, (*Z*)-(9*R*,10*S*)-10,15-dibromochamigra-1,3(15),7(14)-trien-9-ol, (*E*)-(9*S*,10*R*)-10,15-dibromochamigra-1,3(15),7(14)-trien-9-ol, isoobtusadiene)
- (4) Chen, J.-Y., Huang, C.-Y., Lin, Y.-S., Hwang, T.-L., Wang, W.-L., Chiou, S.-F., and Sheu, J.-H. 2016. J. Nat. Prod., **79**, 2315-2323. Halogenated sesquiterpenoids from *Laurencia tristicha* collected in Taiwan. (together with 8 new chamigranes; tristichones A-D, tristichols A-D, 4α-hydroxybromocuparene, known 9 related compds; ma'ilione, ma'iliohydrin, isorigidol, *allo*-isoobtusol, majusculone, (3(15)*Z*)-10,15-dibromochamigra-1,3(15),7(14)-trien-9-ol, (3(15)*E*)-10,15-dibromochamigra-1,3(15),7(14)-trien-9-ol, (3(15)*Z*)-15-bromochamigra-1,3(15),7-trien-9-one, (3(15)*E*)-15-bromochamigra-1,3(15),7-trien-9-one)