

## 5111 (Indole)

Name: 2,3,5,6-Tetrabromoindole

{2,3,5,6-Tetrabromo-1*H*-indole}

Origin: *Laurencia brongniartii* (Caribbean Sea)<sup>(1)</sup>;

*Laurencia similis* (Pulau Gaya, Kota Kinabalu, Sabah (Borneo), Malaysia)<sup>(2)</sup>;

*Laurencia similis* (Tanjung Aru, Sepanggar Isl., Mantanani Isl., Lankayan Isl., Banggi Isl., Sipadan Isl., Sabah, Malaysia)<sup>(3)</sup>;

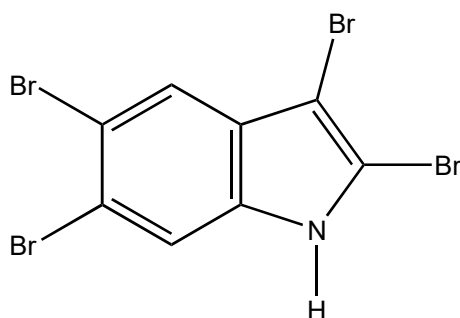
*Laurencia similis* (the coast of Hainan Islands, China)<sup>(4,5)</sup>;

Formula: C<sub>8</sub>H<sub>3</sub>Br<sub>4</sub>N

Mol. Wt.: 432.73

Opt. Rot.:

Mp.: 152.5-154<sup>(1)</sup>; 151-152<sup>(2)</sup>; 152-154<sup>(3)</sup>; 153-154 (EtOAc/hexane)<sup>(6)</sup>



### References and Notes

- (1) Carter, G. T., Reinhart, K. L., Jr, Li, L. H., Kuentzel, S. L., and Connor, J. L. 1978. *Tetrahedron Lett.*, **19**, 4479-4482. Brominated indoles from *Laurencia brongniartii*. (**IR**, **<sup>1</sup>H-NMR**, **MS**) (together with 1-methyl-2,3,5-tribromoindole, 1-methyl-2,3,6-tribromoindole, 1-methyl-2,3,5,6-tetrabromoindole, **2,3,5,6-tetrabromoindole**)
- (2) Masuda, M., Kawaguchi, S., Takahashi, Y., Okamoto, K., and Suzuki, M. 1999. *Botanica Marina*, **42**, 199-202. Halogenated secondary metabolites of *Laurencia similis* (Rhodomelaceae, Rhodophyta). (together with **2,3,5,6-tetrabromoindole**, 1-methyl-2,3,5,6-tetrabromoindole)
- (3) Vairappan, C. S., Yen, A. M., Yi, O. C., and Moi, P. S. 2004. *Malaysian J. Sci.*, **23**, 119-126. Biologically active polybrominated indoles in the red alga *Laurencia similis* from the coastal waters of Sabah (Rhodomelaceae, Ceramiales). (together with 1-methyl-2,3,5,6-tetrabromoindole, **2,3,5,6-tetrabromoindole**)
- (4) Ji, N.-Y., Li, X.-M., Ding, L.-P., and Wang, B. G. 2007. *Helv. Chim. Acta*, **90**, 385-391. Aristolane sesquiterpenes and highly brominated indoles from the marine red alga *Laurencia similis* (Rhodomelaceae) (together with 1-methyl-3,5,6-tribromoindole, 3,5,6-tribromoindole, 2,3,6-tribromoindole, **2,3,5,6-tetrabromoindole**, aristolane sesquiterpenes, elatol)
- (5) Li, C.-S., Li, X.-M., Cui, C.-M., and Wang, B. G. 2010. *Z. Naturforsch.*, **65b**, 87-89. Brominated metabolites from the marine red alga *Laurencia similis*. (together with **2,3,5,6-tetrabromoindole**, 1-methyl-2,5-dibromoindole, aristolan-1-bromo-9,10-epoxide, six known compounds)
- (6) **Synthesis**; Suarez-Castillo, O. R., Beiza-Granados, L., Melendez-Rodriguez, M., Alvarez-Hernandez, A., Morales-Rios, M. S., and Josepf-Nathan, P. 2006. *J. Nat. Prod.* **69**, 1596-1600. Synthesis of bromoindole alkaloids from *Laurencia brongniartii*. (**IR**, **<sup>1</sup>H-NMR**, **<sup>13</sup>C-NMR**, **MS**)