

5106 (Indole)

Name: *N*-Methyl-2,3,5,6-tetrabromoindole; 1-Methyl-2,3,5,6-tetrabromoindole

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

Origin: *Laurencia brongniartii* (Caribbean Sea)⁽¹⁾;

Laurencia similis (Pulau Gaya, Kota Kinabalu, Sabah (Borneo), Malaysia)⁽²⁾;

Laurencia decumbens (South China Sea waters offshore Weizhou Islands, China)⁽³⁾;

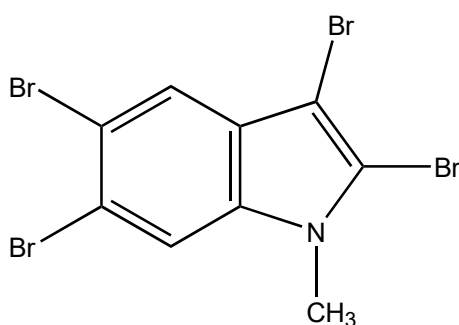
Laurencia similis (Tanjung Aru, Sepanggar Isl., Mantanani Isl., Lankayan Isl., Banggi Isl., Sipadan Isl., Sabah, Malaysia)⁽⁴⁾;

Formula: C₉H₅Br₄N

Mol. Wt.: 446.76

Opt. Rot.:

Mp.: 171.5-172⁽¹⁾; 170-171⁽²⁾; 170-172⁽⁴⁾; 170-171⁽⁵⁾



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*. (UV, ¹H-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 1-methyl-2,3,5,6-tetrabromoindole, 2,3,5,6-tetrabromoindole)
- (3) Ji, N.-Y., Li, X.-M., Cui, C.-M., and Wang, B.-G. 2007. *Helv. Chim. Acta*, **90**, 1731-1736. Terpenes and polybromoindoles from the marine red alga *Laurencia decumbens* (Rhodomelaceae). (together with laurendecumtriol, 11-*O*-deacetylpinaterpenes C, pinaterpene C, obtusane, elatol, 1(10)-aristolene, bromoindoles)
- (4) 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)
- (5) **Synthesis**; Liu, Y. and Gribble, G. W. 2002. *J. Nat. Prod.*, **65**, 748-749. Syntheses of polybrominated indoles from the red alga *Laurencia brongniartii* and the brittle star *Ophiocoma erinaceus*. (¹H-NMR, ¹³C-NMR)