

4108 (C15 acetogenin)

Name: *cis*-Laurediol

{Pentadeca-3,9,12-trien-1-yne-6,7-diol}

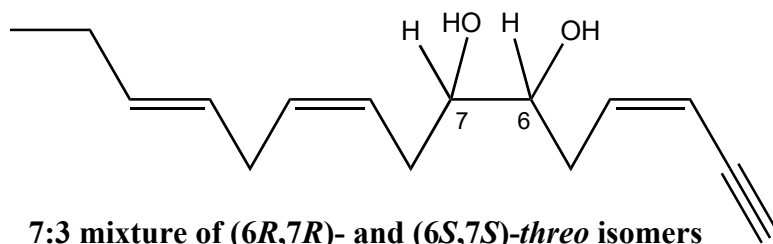
Origin: *Laurencia nipponica* (Hokkaido, Japan)<sup>(1)</sup>;

Formula: C<sub>15</sub>H<sub>22</sub>O<sub>2</sub>

Mol. Wt.: 234.33

Opt. Rot.: [α]<sub>D</sub> +19.6 (CCl<sub>4</sub>) (laurediol mixture)

Mp.: Oil



**References and Notes**

(1) Kurosawa, E., Fukuzawa, A., and Irie, T. 1972. *Tetrahedron Lett.*, **13**, 2121-2124. *trans*- and *cis*-Laurediol, unsaturated glycols from *Laurencia nipponica* Yamada. (UV, IR, <sup>1</sup>H-NMR, MS)

(2) **Synthesis**; (a) Fukuzawa, A., Sato, H., Miyamoto, M., and Masamune, T. 1986. *Tetrahedron Lett.*, **27**, 2901-2902. Synthesis of *trans*-laurediol and its [9,12-<sup>2</sup>H<sub>2</sub>]-analogue.; (b) Anorbe, B., Martin, V. S., Palazon, J. M., and Trujillo, J. M. 1986. *Tetrahedron Lett.*, **27**, 2901-2902. Enantiomeric syntheses of 6(*R*),7(*R*) and 6(*S*),7(*S*) *trans*- and *cis*-laurediol.; (c) Martin, T. and Martin, V. S. 2000. *Tetrahedron Lett.*, **41**, 2503-2505. A short synthesis of *trans*-(+)-laurediol.