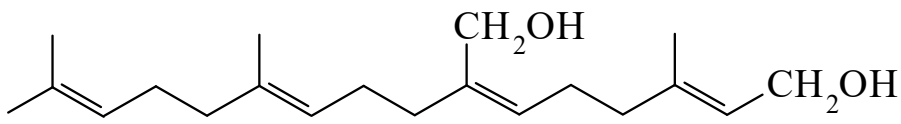
>>**Entry Name: 2,6,10,14-Phytatetraene-1,19-diol**

Synonym(s): 2-(4,8-Dimethyl-3,7-nonadienyl)-6-methyl-2,6-octadiene-1,8-diol, 9CI. 18-Hydroxygeranylgeraniol. **Plaunotol,** INN, JAN**.** Kelnac. Kelnal. Plaugenol. CS 684



CAS Registry Number: 64218-02-6

Related CAS Registry Numbers(s): 121926-76-9 124990-10-9

Molecular Formula: $C_{20}H_{34}O_2$

Molecular Weight: 306.487

Accurate Mass: 306.25588

Percentage Composition: C 78.38%; H 11.18%; O 10.44%

Biological Source: Isol. from leaves of *Croton sublyratus* (Plau-noi) and *Croton columnaris*

Use/Importance: Antiulcer agent used as native drug. Stimulates release of endogenous secretin, and gastric-mucosal prostaglandin (PGE_2 and PGI_2) synthesis

Physical Description: Oil

Development Status: Launched 1987

Calculated Log P Data: Log P 4.84 (calc)

Hazard & Toxicity: Low acute mammalian toxicity

>>**Derivative:** Bis(3,5-dinitrobenzoyl)

Physical Description: Cryst. (MeOH/Et_2O)

Melting Point: Mp 83-84°

References:

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Ushiyama, S. *et al.*, *Biochem. Pharmacol.*, 1987, **36**, 369, *(pharmacol)*

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Takeuchi, T. *et al.*, *J. Clin. Gastroenterol.*, *Suppl.* 1, 1991, **13**, S83, *(pharmacol)*

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Takayanagi, H. *et al.*, *Tet. Lett.*, 1994, **35**, 1581, *(synth)*

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Tago, K. *et al.*, *J.C.S. Perkin 1*, 2000, 2073-2078, *(synth)*