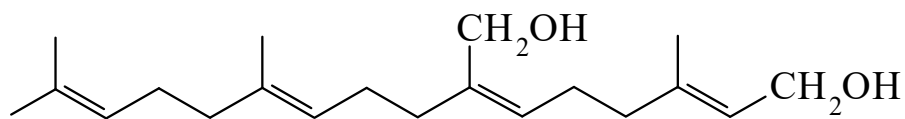




>>Entry Name: **2,6,10,14-Phytatetraene-1,19-diol**

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: C₂₀H₃₄O₂

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 (PGE₂ and PGI₂) 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/Et₂O)

Melting Point: Mp 83-84°

References:

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Kobayashi, S. *et al.*, *Oyo Yakuri*, 1982, **24**, 599, (*pharmacol*)
Ogiso, A. *et al.*, *CA*, 1986, **104**, 213053, (*rev, pharmacol*)
Ushiyama, S. *et al.*, *Biochem. Pharmacol.*, 1987, **36**, 369, (*pharmacol*)
Sato, K. *et al.*, *Chem. Lett.*, 1988, 1433, (*synth, ir, pmr*)
Takeuchi, T. *et al.*, *J. Clin. Gastroenterol., Suppl. 1*, 1991, **13**, S83, (*pharmacol*)
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Togo, K. *et al.*, *J.C.S. Perkin 1*, 2000, 2073-2078, (*synth*)