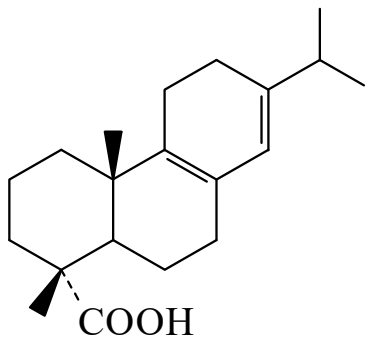
>>**Entry Name: 8,13-Abietadien-18-oic acid**
Synonym(s): Palustric acid



CAS Registry Number: 1945-53-5

Molecular Formula: $C_{20}H_{30}O_2$
Molecular Weight: 302.456
Accurate Mass: 302.22458
Percentage Composition: C 79.42%; H 10.00%; O 10.58%
Biological Source: Constit. of *Pinus palustris, Pinus pallasiana, Pinus pityusa* and *Pinus caribaea*
Physical Description: Cryst. (MeOH)
Melting Point: Mp 162-167°
Optical Rotation: $[\alpha]_D$ +71.6 (EtOH)
UV: [base] λ_{max} 265 () (NAOH) (Berdy)

>>**Derivative:** 18-Aldehyde
Synonym(s): 8,13-Abietadien-18-al. **Palustral**

CAS Registry Number: 13508-03-7

Molecular Formula: $C_{20}H_{30}O$
Molecular Weight: 286.456
Accurate Mass: 286.229665
Percentage Composition: C 83.86%; H 10.56%; O 5.59%
Biological Source: Isol. from *Pinus koraiensis* and other conifers
Physical Description: Cryst. (EtOH)
Optical Rotation: $[\alpha]_D^{20}$+59 (c, 4.24 in $CHCl_3$)

>>**Derivative:** 8α,9α:13α,14α-Diepoxide
Synonym(s): 8,9:13,14-Diepoxy-18-abietanoic acid

Molecular Formula: $C_{20}H_{30}O_4$
Molecular Weight: 334.455
Accurate Mass: 334.21441
Percentage Composition: C 71.82%; H 9.04%; O 19.13%
Biological Source: Constit. of *Lepechinia caulescens*
Physical Description: Cryst. (diisopropyl ether) (as Me ester)
Melting Point: Mp 130-132° (Me ester)

References:

Wenkert, E. *et al.*, *J.A.C.S.*, 1964, **86**, 2038
Radulgin, V.A. *et al.*, *Khim. Prir. Soedin.*, 1974, **10**, 674; *Chem. Nat. Compd. (Engl. Transl.)*, 1974, **10**, 696, *(Palustral)*
Delgado, G. *et al.*, *Phytochemistry*, 1994, **37**, 1119, *(diepoxide)*