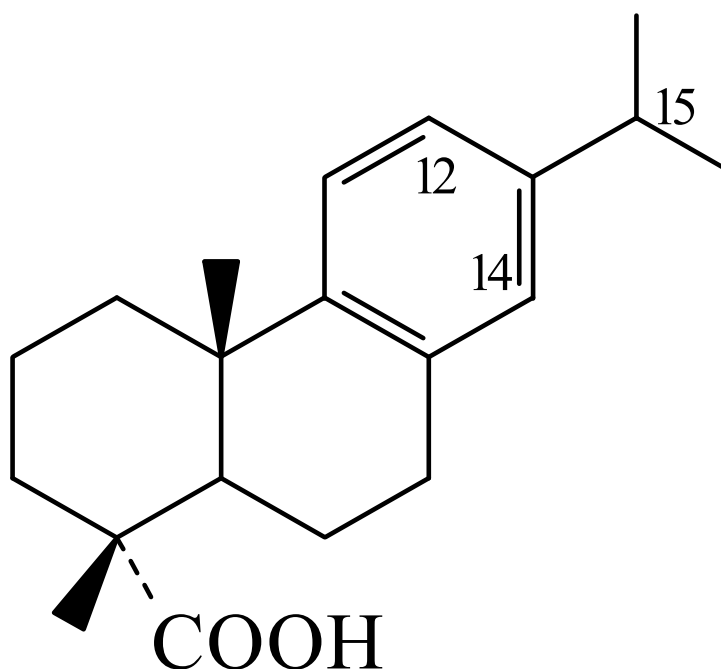




>>8,11,13-Abietatrien-18-oic acid



Dehydroabietic acid

JGL48-F

[1740-19-8]

Classification:VS5550

$C_{20}H_{28}O_2$ M 300.44. 300.20893. C 79.96%; H 9.39%; O 10.65%

Constit. of *Pinus* and *Cedrus* spp. Also from *Abies sachalinensis* and *Cistus labdaniferus*. Cryst. (EtOH aq.).

Mp 172-173°. $[\alpha]_D^{20} +62$ (EtOH). [neutral] λ_{max} 218 (); 243 (); 252 (); 270 (); 278 () (EtOH) (Berdy).

♦TP8710000

>>Me ester: JVC23-C [1235-74-1] Classification:VS5550. $C_{21}H_{30}O_2$ M 314.467. 314.22458. C 80.21%; H 9.62%; O 10.18%. Constit. of *Cistus labdaniferus* and *Pinus* spp.. Cryst. (EtOH). Mp 62-63°. Bp_{0.2} 152-154°. $[\alpha]_D^{20} +60$ (EtOH)

>>12-Chloro: 12-Chloro-8,11,13-abietatrien-18-oic acid. 12-Chlorodehydroabietic acid. KDM77-I [65310-45-4] Classification:VS5550. $C_{20}H_{27}ClO_2$ M 334.885. 334.169957. C 71.73%; H 8.13%; Cl 10.59%; O 9.56%. Found in kraft papermill effluent. Fish toxin. Cryst. (hexane). Mp 178-180°

>>14-Chloro: 14-Chloro-8,11,13-abietatrien-18-oic acid. 14-Chlorodehydroabietic acid. KDM78-J [65281-76-7] Classification:VS5550. $C_{20}H_{27}ClO_2$ M 334.885. 334.169957. C 71.73%; H 8.13%; Cl 10.59%; O 9.56%. Found in kraft papermill effluent. Fish toxicant. Cryst. (pentane). Mp 159-160°

>>12,14-Dichloro: 12,14-Dichloro-8,11,13-abietatrien-18-oic acid. 12,14-Dichlorodehydroabietic acid. KDM79-K [65281-77-8] Classification:VS5550. $C_{20}H_{26}Cl_2O_2$ M 369.33. 368.130984. C 65.04%; H 7.10%; Cl 19.20%; O 8.66%. Found in kraft papermill effluent. Fish toxin. Cryst. (hexane). Mp 219-220°

>>15-Hydroperoxy: 15-Hydroperoxy-8,11,13-abietatrien-18-oic acid. 15-Hydroperoxydehydroabietic acid. NBG46-N Classification:VS5550. $C_{20}H_{28}O_4$ M 332.439. 332.19876. C 72.26%; H 8.49%; O 19.25%. Constit. of *Pinus* spp.