



>>Entry Name: 17-Hydroxyestra-4,6-dien-3-one

Synonym(s): 17-Hydroxy-19-norandrost-4,6-dien-3-one

Molecular Formula:  $C_{18}H_{24}O_2$

Molecular Weight: 272.386

Accurate Mass: 272.17763

Percentage Composition: C 79.37%; H 8.88%; O 11.75%

>>Variant: 17 $\beta$ -form

CAS Registry Number: 14531-84-1

Molecular Formula:  $C_{18}H_{24}O_2$

Molecular Weight: 272.386

Accurate Mass: 272.17763

Percentage Composition: C 79.37%; H 8.88%; O 11.75%

Physical Description: Cryst. (Me<sub>2</sub>CO/hexane)

Melting Point: Mp 185-186° (177-179°)

Optical Rotation:  $[\alpha]_D +11$  (CHCl<sub>3</sub>)

>>Derivative: Ac

CAS Registry Number: 2590-41-2

Molecular Formula:  $C_{20}H_{26}O_3$

Molecular Weight: 314.424

Accurate Mass: 314.188195

Percentage Composition: C 76.40%; H 8.33%; O 15.27%

Physical Description: Cryst. (pentane)

Melting Point: Mp 113.5-114.5°

Optical Rotation:  $[\alpha]_D -38$  (CHCl<sub>3</sub>)

#### References:

Velluz, L. *et al.*, *Tetrahedron*, 1958, **4**, 241, (*synth*)

Zderic, J.A. *et al.*, *Steroids*, 1963, **1**, 233, (*synth*)

Brodie, H.J. *et al.*, *J.O.C.*, 1972, **37**, 3361, (*synth*)

Haynes, R.K. *et al.*, *Aust. J. Chem.*, 1980, **33**, 1537, (*synth*)