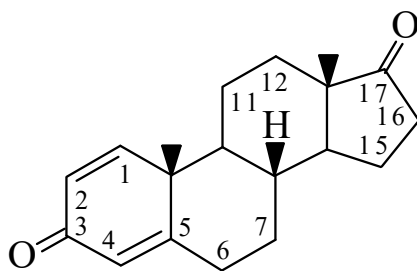




>> Name: Androsta-1,4-diene-3,17-dione



CAS Registry Number: 897-06-3

Molecular Formula: C₁₉H₂₄O₂

Molecular Weight: 284.397

Accurate Mass: 284.17763

Percentage Composition: C 80.24%; H 8.51%; O 11.25%

Biological Source: Obt. by microbial degradn. of Cholesterol and other steroids. Abnormal hormonal metab. found in mammary neoplasms etc. Constit. of *Aglaia rubiginosa*

Use/Importance: Synthetic reagent for steroid hormones

Melting Point: Mp 141-142°

Optical Rotation: [α]_D +115 (CHCl₃)

UV: [neutral] λ_{max} 240 (ε 7652) (MeOH)

Aldrich: 85116-7

Sigma: A7505

References:

- Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **2**, 1055A, (*ir*)
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 587C, (*nmr*)
Dodson, R.M. *et al.*, *J.A.C.S.*, 1958, **80**, 6148; 1961, **83**, 4627
Nagasawa, M. *et al.*, *Agric. Biol. Chem.*, 1969, **33**, 1644; 1970, **34**, 798, (*synth*)
Stefanovic, M. *et al.*, *CA*, 1971, **74**, 110364g, (*synth*)
Boar, R.B. *et al.*, *J.C.S. Perkin 1*, 1975, 1275, (*pmr*)
Hanson, J.R. *et al.*, *J.C.S. Perkin 1*, 1975, 1956, (*cmr*)
Kirk, D.N. *et al.*, *J.C.S. Perkin 2*, 1990, 1567, (*pmr*)
Weber, S. *et al.*, *J. Nat. Prod.*, 2000, **63**, 636-642, (*isol, pmr, cmr*)