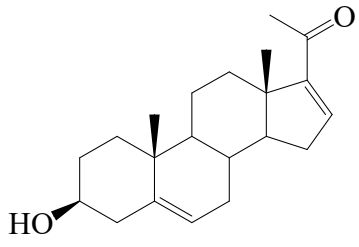
>>**Entry Name: 3-Hydroxypregna-5,16-dien-20-one**



Related CAS Registry Numbers(s): 23549-24-8 23549-26-0

Molecular Formula: $C_{21}H_{30}O_2$
Molecular Weight: 314.467
Accurate Mass: 314.22458
Percentage Composition: C 80.21%; H 9.62%; O 10.18%

>>**Variant:** 3β-form

CAS Registry Number: 1162-53-4
Molecular Formula: $C_{21}H_{30}O_2$
Molecular Weight: 314.467
Accurate Mass: 314.22458
Percentage Composition: C 80.21%; H 9.62%; O 10.18%
Physical Description: Cryst. (Me_2CO)
Melting Point: Mp 210-212°
Optical Rotation: $[\alpha]_D$ –34 (c, 1 in $CHCl_3$/dioxan)

>>**Derivative:** Oxime

CAS Registry Number: 23549-27-1
Molecular Formula: $C_{21}H_{31}NO_2$
Molecular Weight: 329.481
Accurate Mass: 329.235479
Percentage Composition: C 76.55%; H 9.48%; N 4.25%; O 9.71%
Physical Description: Needles (AcOH aq.)
Melting Point: Mp 219-220°

>>**Derivative:** Semicarbazone

Physical Description: Cryst. (EtOH)
Melting Point: Mp 230° (dec.)

>>**Derivative:** Thiosemicarbazone

Physical Description: Cryst. (EtOH)
Melting Point: Mp 242°

>>**Derivative:** Ac

CAS Registry Number: 979-02-2
Molecular Formula: $C_{23}H_{32}O_3$
Molecular Weight: 356.504
Accurate Mass: 356.235145
Percentage Composition: C 77.49%; H 9.05%; O 13.46%
Use/Importance: Key intermed. in the conversion of diosgenin to progesterone
Physical Description: Rods (MeOH)
Melting Point: Mp 175-177°
Optical Rotation: $[\alpha]_D$ –39 (c, 1 in $CHCl_3$)

>>**Derivative:** Ac, oxime

CAS Registry Number: 2174-13-2
Molecular Formula: $C_{23}H_{33}NO_3$
Molecular Weight: 371.519
Accurate Mass: 371.246044
Percentage Composition: C 74.36%; H 8.95%; N 3.77%; O 12.92%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 228-230°