>>**Entry Name: Pregna-4,6-diene-3,20-dione,** 9CI
Synonym(s): 6,7-Didehydroprogesterone

CAS Registry Number: 1162-56-7

Molecular Formula: $C_{21}H_{28}O_2$
Molecular Weight: 312.451
Accurate Mass: 312.20893
Percentage Composition: C 80.73%; H 9.03%; O 10.24%
Source/Synthesis: Synth. steroid prod. by the modified Oppenauer oxidn. of pregnenolone using quinone as the hydrogen acceptor
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 147-148°
Optical Rotation: $[\alpha]_D$ +167 ($CHCl_3$)
Other Data: About one third as active as progesterone

>>**Variant:** 17α-form

CAS Registry Number: 25093-47-4
Molecular Formula: $C_{21}H_{28}O_2$
Molecular Weight: 312.451
Accurate Mass: 312.20893
Percentage Composition: C 80.73%; H 9.03%; O 10.24%
Physical Description: Needles (C_6H_6/hexane)
Melting Point: Mp 150-151°
Optical Rotation: $[\alpha]_D^{28}$–80 ($CHCl_3$)

>>**Variant:** (8α,10α)-form

Molecular Formula: $C_{21}H_{28}O_2$
Molecular Weight: 312.451
Accurate Mass: 312.20893
Percentage Composition: C 80.73%; H 9.03%; O 10.24%
Physical Description: Cryst. (Et_2O)
Melting Point: Mp 119-121 and 130-131°° (double Mp)
Optical Rotation: $[\alpha]_D^{22}$+200 ($CHCl_3$)

>>**Variant:** 9β-form

Molecular Formula: $C_{21}H_{28}O_2$
Molecular Weight: 312.451
Accurate Mass: 312.20893
Percentage Composition: C 80.73%; H 9.03%; O 10.24%
Physical Description: Cryst. (Me_2CO)
Melting Point: Mp 163-164°
Optical Rotation: $[\alpha]_D$ +256 (c, 0.22 in $CHCl_3$)

>>**Variant:** (9β,10α)-form

Molecular Formula: $C_{21}H_{28}O_2$
Molecular Weight: 312.451
Accurate Mass: 312.20893
Percentage Composition: C 80.73%; H 9.03%; O 10.24%
Physical Description: Cryst. (Me_2CO/hexane)
Melting Point: Mp 169-170°
Optical Rotation: $[\alpha]_D^{25}$–484.5 ($CHCl_3$)

>>**Derivative:** Dioxime

Physical Description: Cryst. (THF/petrol)
Melting Point: Mp 279-282°

References: