>>**Entry Name: 17-Hydroxyandrostan-3-one**

Related CAS Registry Numbers(s): 5986-81-2 36027-75-5 68374-19-6

Molecular Formula: $C_{19}H_{30}O_2$
Molecular Weight: 290.445
Accurate Mass: 290.22458
Percentage Composition: C 78.57%; H 10.41%; O 11.02%

>>**Variant:** (5α,17α)-form

CAS Registry Number: 571-24-4
Molecular Formula: $C_{19}H_{30}O_2$
Molecular Weight: 290.445
Accurate Mass: 290.22458
Percentage Composition: C 78.57%; H 10.41%; O 11.02%
Physical Description: Cryst. (MeOH) or needles (cyclohexane)
Melting Point: Mp 179.5-180°
Optical Rotation: $[\alpha]_D^{24}$+12.8 (c, 1.2 in $CHCl_3$)

>>**Variant:** (5α,17β)-form
Synonym(s): Dihydrotestosterone. **Androstanolone,** INN**.** Stanolone, BAN. Anabolev. Androlone. **Neoprol‡.** Stanaprol. Neodrol

CAS Registry Number: 521-18-6

Molecular Formula: $C_{19}H_{30}O_2$
Molecular Weight: 290.445
Accurate Mass: 290.22458
Percentage Composition: C 78.57%; H 10.41%; O 11.02%
Biological Use/Importance: Androgen, anabolic steroid
Physical Description: Cryst. (EtOAc/hexane), (Me_2CO/petrol)
Melting Point: Mp 181°
Optical Rotation: $[\alpha]_D^{20}$+32.4 (c, 1.0 in EtOH)
Calculated Log P Data: Log P 3.55 (uncertain value) (calc)

Fluka: 10300
Sigma: A0809

>>**Derivative:** Oxime

CAS Registry Number: 2436-48-8
Molecular Formula: $C_{19}H_{31}NO_2$
Molecular Weight: 305.459
Accurate Mass: 305.235479
Percentage Composition: C 74.71%; H 10.23%; N 4.59%; O 10.48%
Physical Description: Plates (MeOH)
Melting Point: Mp 210°

>>**Derivative:** *Z*-Oxime (syn)

CAS Registry Number: 19534-54-4
Melting Point: Mp 218-219°

>>**Derivative:** *E*-Oxime (anti)

CAS Registry Number: 19522-38-4
Melting Point: Mp 218-219°

>>**Derivative:** Ac

CAS Registry Number: 1164-91-6
Physical Description: Needles (hexane)
Melting Point: Mp 158-160.5°