



Molecular Weight: 476.609
Accurate Mass: 476.277405
Percentage Composition: C 68.04%; H 8.46%; O 23.50%
Physical Description: Cryst. (Me₂CO/petrol)
Melting Point: Mp 187-189°
Optical Rotation: $[\alpha]_D^{24} + 88$ (c, 1 in MeOH)

>> **Variant:** (3 α ,5 β ,11 β)-form
Synonym(s): Tetrahydrocorticosterone

CAS Registry Number: 68-42-8

Molecular Formula: C₂₁H₃₄O₄
Molecular Weight: 350.497
Accurate Mass: 350.24571
Percentage Composition: C 71.96%; H 9.78%; O 18.26%
Biological Source: Present in urine
Physical Description: Amorph., losing solv. to give fine tetragonal prisms (Et₂O/petrol)
Melting Point: Mp 70-90° (amorph.). Mp 156-158° (cryst.)
Optical Rotation: $[\alpha]_D^{25} + 114$ (MeOH). $[\alpha]_D^{24} + 133$ (c, 1 in MeOH)
Sigma: T2875

>> **Variant:** (3 β ,5 α ,11 α)-form

Molecular Formula: C₂₁H₃₄O₄
Molecular Weight: 350.497
Accurate Mass: 350.24571
Percentage Composition: C 71.96%; H 9.78%; O 18.26%

>> **Derivative:** 11-Ac

Physical Description: Cryst. (Et₂O/hexane)
Melting Point: Mp 230-236°
Optical Rotation: $[\alpha]_D + 27$

>> **Variant:** (3 β ,5 α ,11 β)-form
Synonym(s): Reichstein's Substance R

CAS Registry Number: 516-16-5

Molecular Formula: C₂₁H₃₄O₄
Molecular Weight: 350.497
Accurate Mass: 350.24571
Percentage Composition: C 71.96%; H 9.78%; O 18.26%
Biological Source: Constit. of extract of adrenal cortex
Physical Description: Needles (EtOH)
Melting Point: Mp 202-204°
Optical Rotation: $[\alpha]_D + 110$ (EtOH)
Sigma: P0391

>> **Derivative:** 21-Ac

Physical Description: Cryst. (MeOH aq.)
Melting Point: Mp 190-192°
Optical Rotation: $[\alpha]_D^{20} + 107$ (Me₂CO)

>> **Derivative:** 3,21-Di-Ac

Molecular Formula: C₂₅H₃₈O₆
Molecular Weight: 434.572
Accurate Mass: 434.26684
Percentage Composition: C 69.10%; H 8.81%; O 22.09%
Melting Point: Mp 172-174°
Optical Rotation: $[\alpha]_D^{22} + 82.5$ (c, 1.308 in dioxan). $[\alpha]_D^{20} + 101$ (Me₂CO)