



CERTIFICATE OF ANALYSIS

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1. Identification

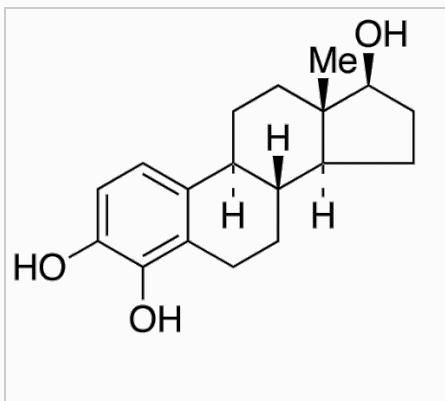
Catalogue Number: H941895

CAS Number: 5976-61-4

Product: 4-Hydroxy-17b-estradiol

Synonym: (17 β)-Estra-1,3,5(10)-triene-3,4,17-triol; 4-Hydroxyestradiol;

Structure:



Molecular Formula:

C₁₈H₂₄O₃

Molecular weight:

288.38

Source of Product:

Synthetic

Solubility:

Ethanol (Slightly, Heated),
Ethyl Acetate (Slightly,
Heated), Methanol (Slightly

Lot Number: 5-SBT-155-1

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped
At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Light Yellow to Very Dark Yellow Solid	Beige to Very Dark Yellow Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 73.88, %H: 8.56
MS	Conforms to Structure	Conforms
HPLC Purity	>95%	96.10% (205 nm)
Specific Rotation	Report Result	+70.8° (c = 0.1, Ethanol)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Swathi Reddy	Toni Rantanen	Chanell Chu	4/26/2022	4/24/2029