

## Certificate of Analysis

Date of Testing: 2023-02-13 15:29:12  
Date of Next Testing: 2025-02-12 15:29:12  
Product Name: **Ethinyl Estradiol**  
CAS Number: 57-63-6  
Specifications & Purity:  $\geq 98\%$   
Lot #: E2112312  
SKU #: **E129595**  
**Analysis:** **186938**  
Storage Temperature: Protected from light, Argon charged

Parameter	Limit Values	Result
Melting point	181-185 (°C)	182.60000 °C
Purity(Neutralization titration)	97.5-102.5 (%)	97.90 %
Purity(HPLC)	98-100 (%)	98.21500 %
Specific Rotation $[\alpha]_{20/D}(c=0.4$ in Pyridene)	-32--28 (°)	-30.10 °
Appearance (E129595)	White to Off-White to Light Yellow Powder or Crystals	White to Off-White to Light yellow Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in EtOH , Colorless to Pale Yellow Clear(50 mg/ml)	pass	Pass



John Su  
QA & QC Manager