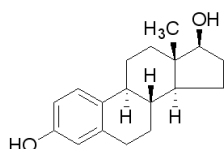


Product Information

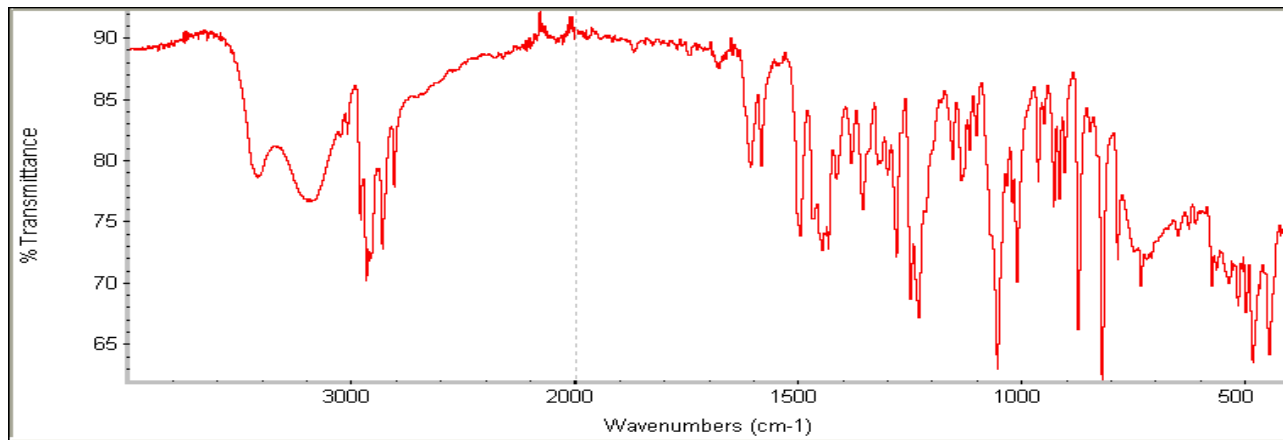
**β-Estradiol
analytical standard**Catalog Number **E1132**
Lot Number 069K5010V
Store at Room TemperatureCAS RN 50-28-2
Synonyms: Estra-1,3,5(10)-triene-3,17-diol,
(17β)-Estra-1,3,5(10)-triene-3,17β-diol**Product Description**Molecular Formula: C₁₈H₂₄O₂
Molecular Weight: 272.38This product meets USP specifications (Current through
USP 32) and is traceable to USP Reference Standard
lot LOC337.**Precautions and Disclaimer**This product is for R&D use only, not for drug,
household, or other uses. Please consult the Material
Safety Data Sheet for information regarding hazards
and safe handling practices.**Preparation Instructions**Dry a portion at 80 °C for 4 hours before use. Use
promptly. Discard unused material.**Storage/Stability**Store in a sealed vial under argon protected from light
at room temperature.

CJH,MAM 10/14-1

TEST	USP 32 SPECIFICATIONS	Result Sigma Reference Standard Lot 069K5010V
Infrared asorption spectrum KBr dispersion <197A>	compares to standard	compares to standard
Ultraviolet absorption spectrum 50 µg/mL in alcohol <197U>	compares to standard and absorptivities at 280 nm, calculated on the anhydrous basis, do not differ by more than 3.0%	meets requirements
Melting range, °C <i>Class 1</i> <741>	between 173 °C and 179 °C	176–179 °C
Specific rotation, [α] _D ²⁵ 10 mg/mL solution in dioxane <781S>	between +76° and +83°	+81.6°
Water <i>Method 1</i> <921>	not more than 3.5%	3.4%
Residual Solvents	meets the requirements	Conforms (class 3 solvents only < 0.5%)
Chromatographic purity <621>	not more than 0.5% of any individual impurity is found, and not more than 1.0% of total impurities is found	conforms
Assay - HPLC <621>	not less than 97% and not more than 103%, calculated on the anhydrous basis	103%

See reverse side for IR spectrum of Sigma Reference Standard

Infrared Spectrum
KBr Dispersion



Ultraviolet Spectrum

50 $\mu\text{g/mL}$ in alcohol

