

## ProductInformation

### ESTRADIOL SIGMA REFERENCE STANDARD

Product No. **E 1132**

Lot No: 49H8801

Storage Temperature: 8° - 15° or in refrigerator

Formula: C<sub>18</sub>H<sub>24</sub>O<sub>2</sub>

Formula Weight: 272.39

CAS No: 50-28-2

Synonyms: Estra-1,3,5(10)-triene-3,17-diol, (17)-  
Estra-1,3,5(10)-triene-3,17-diol.

#### Product Description

This product meets USP specifications (Current through USP 23, 10th Supplement), and is traceable to USP Reference Standard lot K.

Store in sealed vial in a cool place, protected from light. Allow to attain room temperature before opening ampule. Use the material promptly and discard the unused portion.

TEST	USP 23 SPECIFICATIONS	Result Sigma R.S. Lot 49H8801
Infrared absorption spectrum KBr dispersion (197M)	compares to standard	conforms to USP RS Lot K
Ultraviolet absorption 50 µg/mL in alcohol solution (197U)	compares to standard and absorptivities at 280 nm do not differ by more than 3.0%	meets requirement
Melting range, °C Class 1 (741)	between 173° and 179°	175 - 176°
Specific rotation, [α] <sub>D</sub> <sup>25</sup> 10 mg/mL solution in dioxane (781)	between +76° and +83°	+ 77°
Water Method 1 (921)	not more than 3.5%	3.3%
Chromatographic purity (621)	not more than 0.2% of any individual impurity is found, and not more than 0.3% of total impurities is found	passes
Assay - HPLC (621)	not less than 97% and not more than 103%	100.1%

See reverse side for IR and UV spectra spectrum of Sigma Reference Standard.

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Product No.E1132  
Lot 49H8801

Title: E1132.ftr  
Creator: WIMP 2001  
CreationDate: 02/11/94

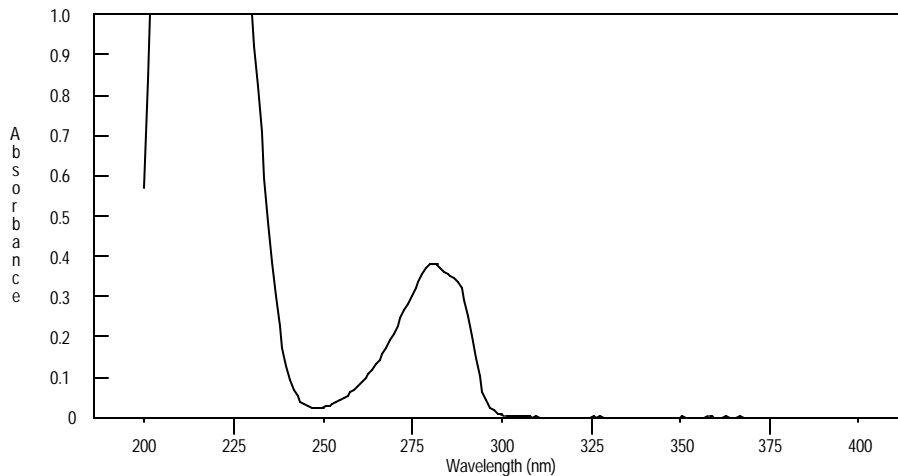


INFRARED SPECTRUM

Mineral oil dispersion  
Wavenumbers (cm<sup>-1</sup>)

ULTRAVIOLET SPECTRUM

50µg/mL in ethanol



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Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply.  
Please see reverse side of the invoice or packing slip.