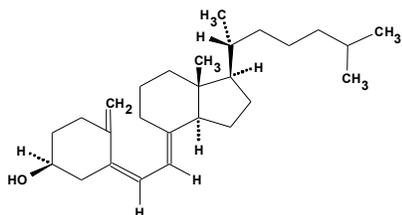


## Product Information

### Cholecalciferol Sigma Reference Standard

Catalog Number **C9774**  
 Lot Number 076K8807  
 Storage Temperature 2–8 °C

CAS RN 67-97-0  
 Synonyms: Activated 7-dehydrocholesterol; Calcioi;  
 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3b,5Z,7E)-;  
 (+)-Vitamin D<sub>3</sub>;



This product meets USP specifications (Current through USP 29, 2nd Supplement), and is traceable to USP Reference Standard lot M0B157.

#### 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

Bring ampule to room temperature before opening and use promptly. Do not dry.

#### Storage/Stability

Ampule sealed under argon. Protect from light. Store sealed ampule at 2–8 °C. Discard unused material.

#### Product Description

Molecular Formula: C<sub>27</sub>H<sub>44</sub>O  
 Molecular Weight: 384.64

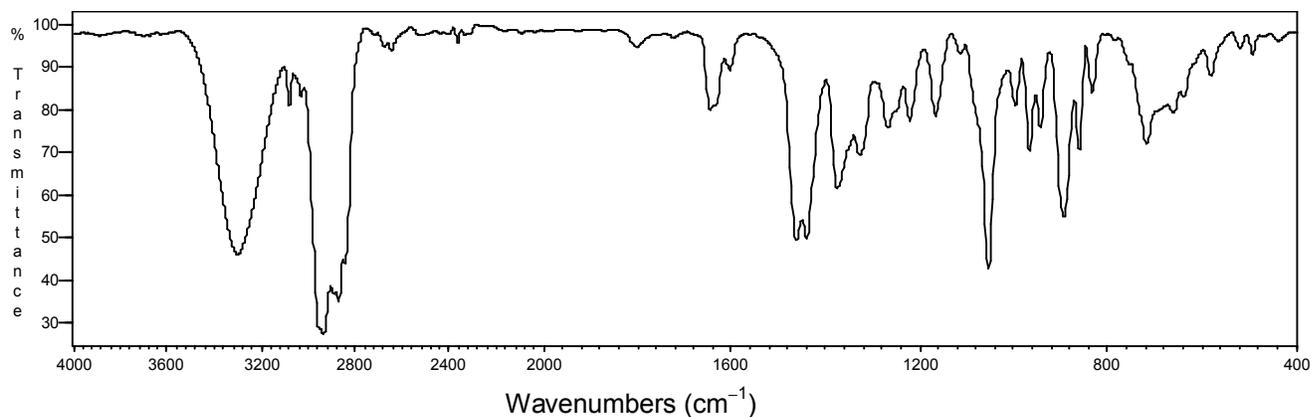
PCS,MAM 12/06-1

TEST	USP 29 SPECIFICATIONS	Result Sigma Reference Standard Lot 076K8807
Infrared absorption spectrum KBr dispersion <197K>	compares to standard	Conforms to USP Standard Lot M0B157
Ultraviolet absorption spectrum 10 µg/mL in alcohol <197U>	absorptivities at 265 nm differ by not more than 3.0%	Pass
Identification test C Color test	bright red color is produced and rapidly changes through violet and blue to green	Pass
Identification test D Thin-layer chromatography <621>	compares to standard	Pass
Organic Volatile Impurities Method IV <467>	meets the requirements	Pass
Specific rotation, [α] <sub>D</sub> <sup>25</sup> 5 mg/ml solution in alcohol <781S>	between +105° and +112°	+108°
Assay — high pressure liquid chromatography <621>	not less than 97.0% and not more than 103.0%	98.0%

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

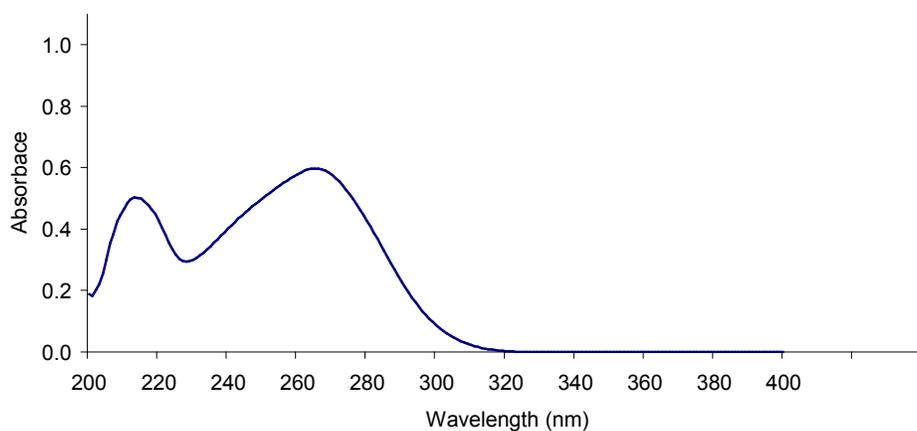
### INFRARED SPECTRUM

KBr dispersion



### ULTRAVIOLET SPECTRUM

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



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