



## Product Information

**CHOLECALCIFEROL  
SIGMA REFERENCE STANDARD**Product No. **C9774**

Lot No: 79H8805

Storage Temperature:  $\leq 8^{\circ}\text{C}$ Formula:  $\text{C}_{27}\text{H}_{44}\text{O}$ 

Formula Weight: 384.65

CAS No: 67-97-0

Synonyms: 9,10-Secocholesta-5,7,10(19)-trien-3-ol,  
(3 $\beta$ ,5Z,7E)-.**Product Description**

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

Ampule sealed under argon. Protect from light. Store sealed ampule at  $\leq 8^{\circ}\text{C}$ . Bring ampule to room temperature before opening and use promptly. Do not dry. Discard unused material.

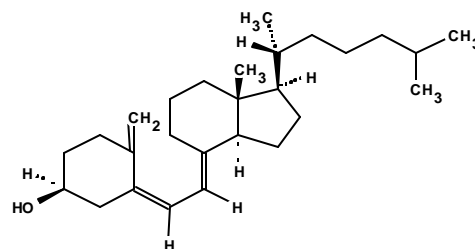
TEST	USP 23 SPECIFICATIONS	Result Sigma R.S. Lot 79H8805
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	conforms to USP R. S. lot L
Ultraviolet absorption spectrum 10 $\mu\text{g}/\text{mL}$ in alcohol (197U)	absorptivities at 265 nm differ by not more than 3.0%	passes
Identification test C Color test	bright red color is produced and rapidly changes through violet and blue to green	passes
Identification test D Thin-layer chromatography (621)	compares to standard	passes
Organic Volatile Impurities Method IV (467)	meets the requirements	passes
Specific rotation, $[\alpha]_D^{25}$ 5 mg/ml solution in alcohol (781S)	between $+105^{\circ}$ and $+112^{\circ}$	$+107^{\circ}$
Assay — high pressure liquid chromatography (621)	not less than 97.0% and not more than 103.0%	101.3%

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

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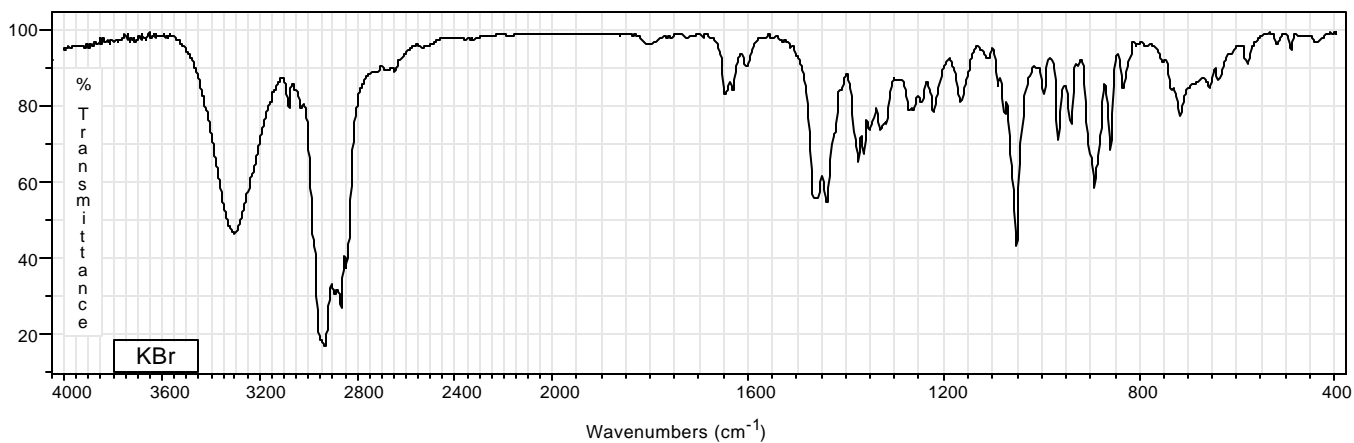
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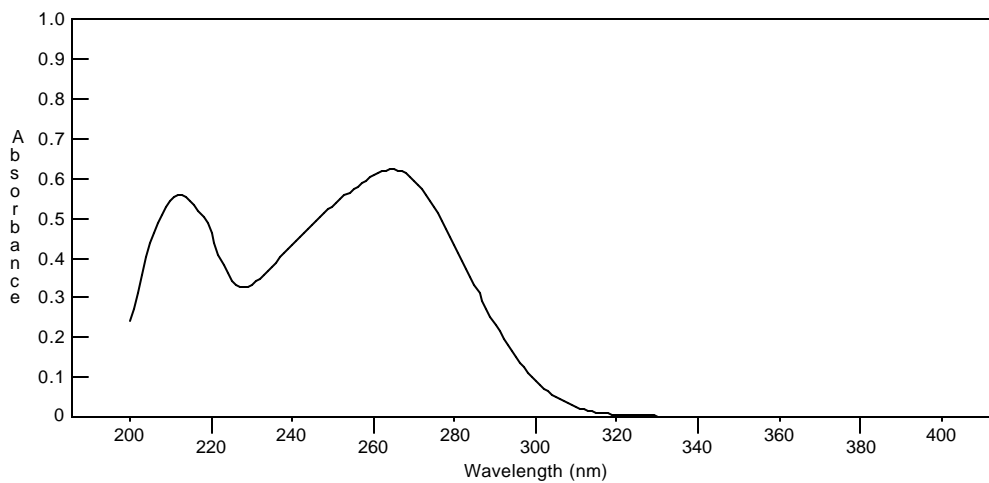
**INFRARED SPECTRUM**

KBr dispersion



**ULTRAVIOLET SPECTRUM**

12.88 µg/mL in alcohol



7/2000

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Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications.  
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.  
This product is not for in Vitro Diagnostic Procedures.