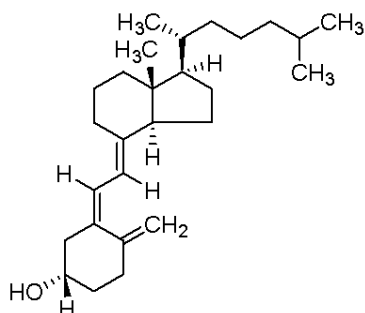


Product Information

**Cholecalciferol
Sigma Reference Standard**Catalog Number **C9774**
Lot Number 019K8724
Storage Temperature 2–8 °CCAS RN 67-97-0
Synonyms: 9,10-Secocholesta-5,7,10(19)-trien-3-ol,
(3 β ,5Z,7E)-**Product Description**Molecular Formula: C₂₇H₄₄O
Molecular Weight: 384.64

This product meets USP specifications (Current through USP 31, 2nd Supplement) and is traceable to USP Reference Standard lot N0G038.

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 vial to room temperature before opening and use promptly. Do not dry. Discard unused material.

Storage/Stability

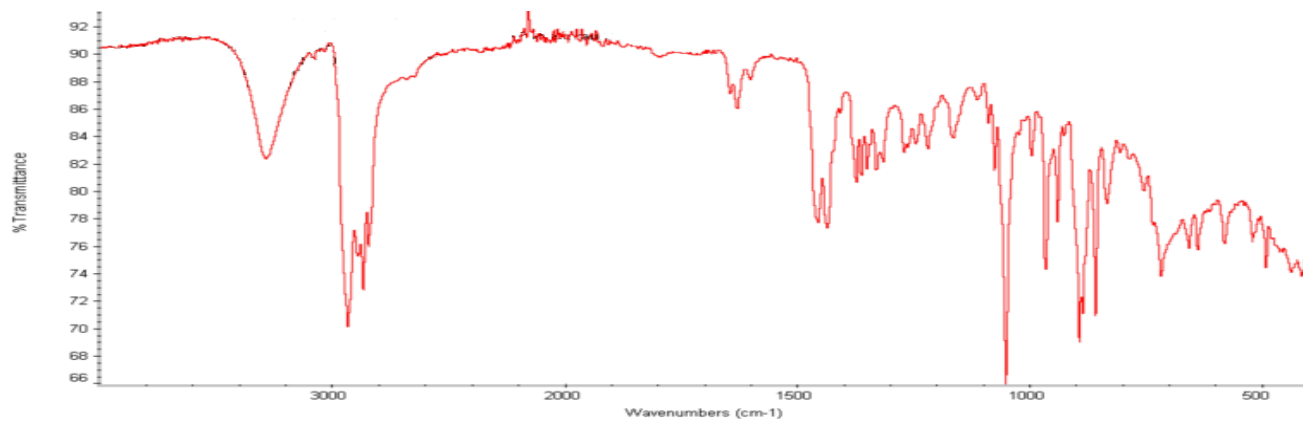
Store in a sealed vial under argon at 2–8 °C

CMW,MAM 04-09-1

TEST	USP 31 SPECIFICATIONS	Result Sigma Reference Standard Lot 019K8724
Infrared asorption spectrum KBr dispersion <197K>	compares to standard	conforms to USP RS Lot N0G038
Ultraviolet absorption spectrum 10 μ g/mL in alcohol <197U>	Absorptivities at 265 nm differ by not more than 3.0%	passes
Identification test C	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
Residual Solvents <467>	meets the requirements	Conforms (no solvent)
Specific rotation, $[\alpha]_D^{25}$ 5 mg/ml solution in alcohol <781S>	Between +105° and +112°	+108.4°
Assay - high pressure liquid chromatography <621>	not less than 97.0% and not more than 103.0%	98.1%

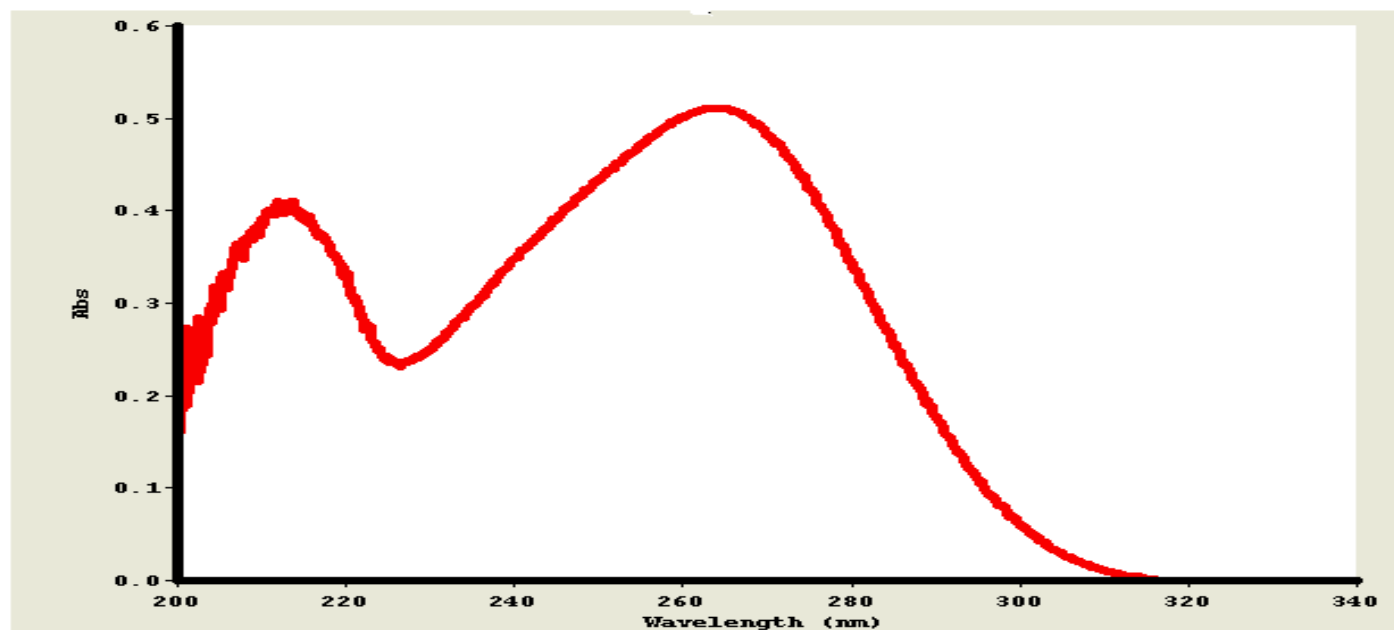
See reverse side for IR spectrum of Sigma Reference Standard

Infrared Spectrum
KBr Dispersion



Ultraviolet Spectrum

10.78 $\mu\text{g/ml}$ in alcohol



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