



>>Entry Name: **9,10-Secocholesta-5,7,10(19)-triene-1,3,24-triol**, 9CI

Related CAS Registry Numbers(s): 57333-95-6 61616-90-8 71726-06-2 93129-94-3 99956-44-2 99956-45-3

Molecular Formula: C₂₇H₄₄O₃

Molecular Weight: 416.643

Accurate Mass: 416.329045

Percentage Composition: C 77.84%; H 10.64%; O 11.52%

Use/Importance: Increases Ca²⁽⁺⁾ transport and serum Ca²⁽⁺⁾

Other Data: Tritiated compds. have been synth.

>>Variant: (1*S*,3*R*,5*Z*,7*E*,24*ξ*)-form

Synonym(s): 1*α*,24-Dihydroxyvitamin D₃

CAS Registry Number: 60965-80-2

Molecular Formula: C₂₇H₄₄O₃

Molecular Weight: 416.643

Accurate Mass: 416.329045

Percentage Composition: C 77.84%; H 10.64%; O 11.52%

Melting Point: Mp 84-85°

>>Variant: (1*S*,3*R*,5*Z*,7*E*,24*R*)-form

Synonym(s): Tacalcitol, BAN, INN, JAN. Bonealfa. TV 02. Curatoderm

CAS Registry Number: 57333-96-7

Molecular Formula: C₂₇H₄₄O₃

Molecular Weight: 416.643

Accurate Mass: 416.329045

Percentage Composition: C 77.84%; H 10.64%; O 11.52%

Use/Importance: Antipsoriatic

Physical Description: Oil

Development Status: Launched 1993 (Japan)

Sigma: D1405

References:

Morisaki, M. *et al.*, *J.C.S. Perkin 1*, 1975, 1421, (*synth*)

Kiozumi, N. *et al.*, *Tet. Lett.*, 1975, 2203, (*abs config*)

Kawashima, H. *et al.*, *FEBS Lett.*, 1977, **76**, 177, (*props*)

Ochi, K. *et al.*, *J.C.S. Perkin 1*, 1979, 165, (*synth*)

Synform, 1987, **5**, 1; 78, (*rev, synth*)

Tsuchimoto, M. *et al.*, *Oyo Yakuri*, 1990, **39**, 15, (*pharmacol*)

Nishimura, M. *et al.*, *Eur. J. Dermatol.*, 1993, **3**, 255, (*rev*)

Gerritsen, M.J. *et al.*, *Br. J. Dermatol.*, 1994, **131**, 57, (*pharmacol, man*)

Okamoto, M. *et al.*, *Tetrahedron*, 1995, **51**, 5543, (*synth*)