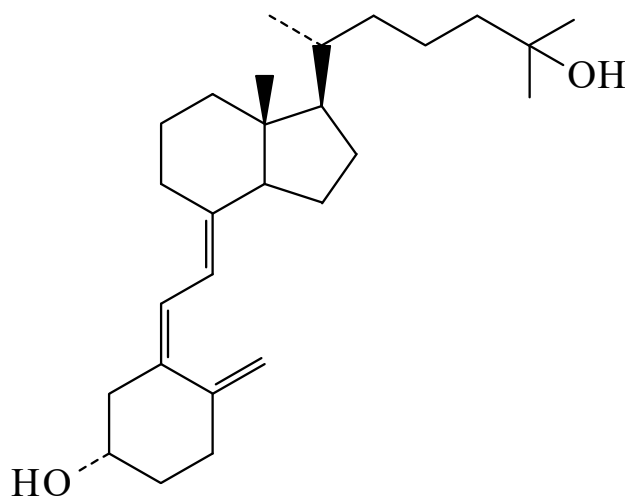




>>Entry Name: 9,10-Secosteroid-5,7,10(19)-triene-3,25-diol



**CAS Registry Number:** 19356-17-3

**Related CAS Registry Numbers(s):** 33433-07-7 51013-97-9 59708-38-2 63283-36-3 66035-80-1 71595-10-3 73809-05-9 73809-14-0 73851-67-9 78782-98-6 80778-40-1 81126-16-1 84368-98-9 96700-65-1 99447-30-0 103498-85-7 111399-04-3 111399-05-4

**Molecular Formula:** C<sub>27</sub>H<sub>44</sub>O<sub>2</sub>

**Molecular Weight:** 400.643

**Accurate Mass:** 400.33413

**Percentage Composition:** C 80.94%; H 11.07%; O 7.99%

**Physical Description:** Oil

**Sigma:** H4014

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

**Synonym(s):** 25-Hydroxyvitamin D<sub>3</sub>. 25-Hydroxycholecalciferol. **Calcifediol**, INN, USAN. Calcidiol. Calderol. Dedrogyl. Delakmin. Diaverene. Didrogyl. Hidroferol. U 32070

**CAS Registry Number:** 36149-00-5

**Molecular Formula:** C<sub>27</sub>H<sub>44</sub>O<sub>2</sub>

**Molecular Weight:** 400.643

**Accurate Mass:** 400.33413

**Percentage Composition:** C 80.94%; H 11.07%; O 7.99%

**Biological Source:** Vitamin D<sub>3</sub> metabolite, constit. of bone, liver and blood of mammals

**Use/Importance:** Calcium regulator, marker of exposure to uv radiation

**Physical Description:** Oil

**Calculated Log P Data:** Log P 7.27 (uncertain value) (calc)

**Other Data:** Deuterated and tritiated compds. have been synthesised

#### References:

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Deluca, H.F. *et al.*, *Am. J. Clin. Nutr.*, 1969, **22**, 412, (*rev*)  
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