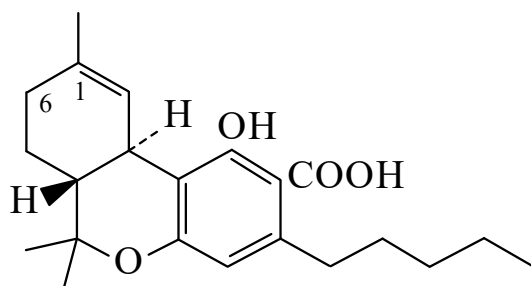




>>Entry Name: Δ^1 -Tetrahydrocannabinolic acid A

Synonym(s): 6a,7,8,10a-Tetrahydro-1-hydroxy-6,6,9-trimethyl-3-pentyl-6H-dibenzo[b,d]pyran-2-carboxylic acid, 9CI. Δ^9 -Tetrahydrocannabinol-2-oic acid. Δ^9 -Tetrahydrocannabinolcarboxylic acid



Absolute
configuration

CAS Registry Number: 23978-85-0

Molecular Formula: C₂₂H₃₀O₄

Molecular Weight: 358.477

Accurate Mass: 358.21441

Percentage Composition: C 73.71%; H 8.43%; O 17.85%

Biological Source: Major component of hashish and marijuana

Optical Rotation: $[\alpha]_D^{20}$ -206.8 (c, 0.5 in CHCl₃)

>>Derivative: Me ester

CAS Registry Number: 16850-65-0

Molecular Formula: C₂₃H₃₂O₄

Molecular Weight: 372.503

Percentage Composition: C 74.16%; H 8.66%; O 17.18%

Optical Rotation: $[\alpha]_D^{12}$ -231 (c, 1.12 in CHCl₃)

References:

- Yamauchi, T. *et al.*, *Chem. Pharm. Bull.*, 1967, **15**, 1075, (*isol*)
Mechoulam, R. *et al.*, *Chem. Comm.*, 1969, 343, (*synth*)
Mechoulam, R. *et al.*, *Tet. Lett.*, 1969, 2339, (*nmr*)
Shoyama, Y. *et al.*, *Phytochemistry*, 1975, **14**, 2189, (*biosynth*)
Billets, M. *et al.*, *Org. Mass Spectrom.*, 1976, **11**, 741, (*ms*)
Crombie, L. *et al.*, *Phytochemistry*, 1977, **16**, 1413, (*synth*)
McDonald, P.A. *et al.*, *J. Chromatogr. Sci.*, 1984, **22**, 282, (*hplc*)