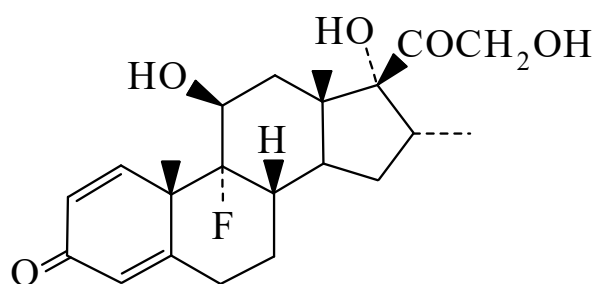




>>Entry Name: Dexamethasone, BAN, INN

ENTRY UNDER REVIEW

Synonym(s): 9-Fluoro-11,17,21-trihydroxy-16-methylpregna-1,4-diene-3,20-dione. 9-Fluoro-16-methylprednisolone. Decaderm. Deltafluorene. Desametasone. Dexadeltone. Dexametasone. Dexamethazone. Hexadecadrol. Hexadrol. Millicorten. Superprednol. MK 125. NSC 34521



CAS Registry Number: 50-02-2

Related CAS Registry Numbers(s): 1879-72-7 55812-90-3

Molecular Formula: C₂₂H₂₉FO₅

Molecular Weight: 392.466

Accurate Mass: 392.199903

Percentage Composition: C 67.33%; H 7.45%; F 4.84%; O 20.38%

General Statement: For 16β-epimer see Betamethasone [HCF87-O](#)

Use/Importance: Glucocorticoid with potent antiinflammatory props. Not FDA approved for use in food-producing animals, but may be used illegally

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 262-264°

Optical Rotation: [α]_D²⁵ +77.5 (dioxan)

Calculated Log P Data: Log P 1.49 (uncertain value) (calc)

Other Data: Stereochem. is (9α,11β,16α,17αOH)

Aldrich: 86187-1

Fluka: 31381

Sigma: D4902

>>Derivative: 17-Ac

Molecular Formula: C₂₄H₃₁FO₆

Molecular Weight: 434.504

Accurate Mass: 434.210468

Percentage Composition: C 66.34%; H 7.19%; F 4.37%; O 22.09%

Physical Description: Plates (Me₂CO/petrol)

Melting Point: Mp 245-247.5°

Optical Rotation: [α]_D +9.5 (c, 0.9 in dioxan)

>>Derivative: 21-Ac

Synonym(s): Dexamethasone acetate, USAN. Flumeprednisolone

CAS Registry Number: 1177-87-3

Molecular Formula: C₂₄H₃₁FO₆

Molecular Weight: 434.504

Accurate Mass: 434.210468

Percentage Composition: C 66.34%; H 7.19%; F 4.37%; O 22.09%

Melting Point: Mp 229-231°

Optical Rotation: [α]_D +77.6 (dioxan)

Calculated Log P Data: Log P 2.02 (uncertain value) (calc)