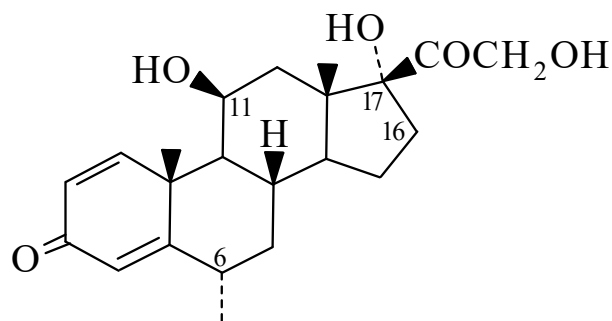




>>Entry Name: **Methylprednisolone**, BAN, INN, USAN

Synonym(s): 11,17,21-Trihydroxy-6-methylpregna-1,4-diene-3,20-dione, 9CI. 6-Methylprednisolone. Medrol. Medrone. Urbason. Urbasone. Wyacort. NSC 19987



CAS Registry Number: 83-43-2

Related CAS Registry Numbers(s): 22252-38-6

Molecular Formula: C₂₂H₃₀O₅

Molecular Weight: 374.476

Accurate Mass: 374.209325

Percentage Composition: C 70.56%; H 8.07%; O 21.36%

Biological Use/Importance: Potent antiinflammatory agent. Glucocorticoid

Physical Description: Cryst.

Development Status: Approved for pharmaceutical use 1978

Melting Point: Mp 228-237°

Optical Rotation: [α]_D²⁰+83 (dioxan)

Calculated Log P Data: Log P 1.64 (uncertain value) (calc)

Other Data: Stereochem. is (6 α ,11 β ,17 α OH)

Aldrich: 28666-4

Fluka: 68885

Sigma: M0639

>>Derivative: 21-Ac

Synonym(s): **Methylprednisolone acetate**, USAN. 21-Acetoxy-11 β ,17-dihydroxy-6 α -methylpregna-1,4-diene-3,20-dione, 9CI. Depo-medrate. Depo-medrol. Many other names

CAS Registry Number: 53-36-1

Molecular Formula: C₂₄H₃₂O₆

Molecular Weight: 416.513

Accurate Mass: 416.21989

Percentage Composition: C 69.21%; H 7.74%; O 23.05%

Biological Use/Importance: Glucocorticoid

Physical Description: Cryst.

Melting Point: Mp 205-208°

Optical Rotation: [α]_D²¹+101 (dioxan)

Calculated Log P Data: Log P 2.18 (uncertain value) (calc)

>>Derivative: 21-Hemisuccinate

Synonym(s): **Methylprednisolone hemisuccinate**, USAN. Many other names

CAS Registry Number: 2921-57-5

Molecular Formula: C₂₆H₃₄O₈

Molecular Weight: 474.55

Accurate Mass: 474.22537

Percentage Composition: C 65.81%; H 7.22%; O 26.97%

Biological Use/Importance: Glucocorticoid

>>Derivative: 21-Hemisuccinate, Na salt

Synonym(s): **Methylprednisolone sodium succinate**, JAN, USAN. Many other names

CAS Registry Number: 2375-03-3

Sigma: M3781