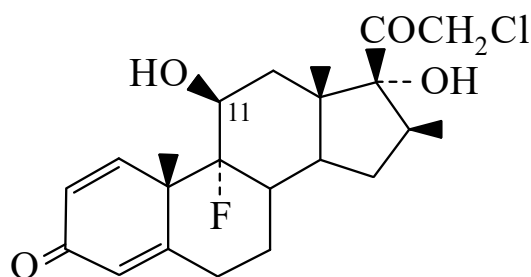




>>Entry Name: **Clobetasol**, BAN, INN

Synonym(s): 21-Chloro-9-fluoro-11,17-dihydroxy-16-methylpregna-1,4-diene-3,20-dione, 9Cl



CAS Registry Number: 25122-41-2

Molecular Formula: $C_{22}H_{28}ClFO_4$

Molecular Weight: 410.912

Accurate Mass: 410.166015

Percentage Composition: C 64.31%; H 6.87%; Cl 8.63%; F 4.62%; O 15.57%

Use/Importance: Corticosteroid. Antiinflammatory, antiallergic agent. Dermatological agent

Optical Rotation: $[\alpha]_D +138$ (c, 0.4 in dioxan)

Calculated Log P Data: Log P 2.12 (uncertain value) (calc)

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

>>Derivative: 17-Propanoyl

Synonym(s): **Clobetasol propionate**, JAN, USAN. Dermovate. Butavate. Clobesol. Decloban. Myalone. Temovate. GR 2/925. Many other names

CAS Registry Number: 25122-46-7

Molecular Formula: $C_{25}H_{32}ClFO_5$

Molecular Weight: 466.976

Accurate Mass: 466.19223

Percentage Composition: C 64.30%; H 6.91%; Cl 7.59%; F 4.07%; O 17.13%

Use/Importance: Corticosteroid, antiallergic, antiinflammatory agent for topical use

Physical Description: Creamy-white powder

Melting Point: Mp 195.5-197°

Optical Rotation: $[\alpha]_D +103.8$ (c, 1.04 in dioxan)

Calculated Log P Data: Log P 3.19 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (rat, ipr) 351 mg/kg. Exp. reprod. effects

Sigma: C8037

>>Derivative: 11-Ketone

Synonym(s): 21-Chloro-9-fluoro-17-hydroxy-16-methylpregna-1,4-diene-3,11,20-trione. **Clobetasone**, BAN, INN. Eumovate. Trimovate

CAS Registry Number: 54063-32-0

Molecular Formula: $C_{22}H_{26}ClFO_4$

Molecular Weight: 408.896

Accurate Mass: 408.150365

Percentage Composition: C 64.62%; H 6.41%; Cl 8.67%; F 4.65%; O 15.65%

Use/Importance: Corticosteroid, antiinflammatory, antiallergic agent. Dermatological agent

Calculated Log P Data: Log P 1.67 (uncertain value) (calc)

>>Derivative: 11-Ketone; 17-butanoyl

Synonym(s): **Clobetasone butyrate**, JAN, USAN. Molivate. Optison. Rettavate. SN 203. GR 1214. Many other names

CAS Registry Number: 25122-57-0

Molecular Formula: $C_{26}H_{32}ClFO_5$

Molecular Weight: 478.987

Accurate Mass: 478.19223

Percentage Composition: C 65.20%; H 6.73%; Cl 7.40%; F 3.97%; O 16.70%

Use/Importance: Corticosteroid for topical use. Antiinflammatory, antiallergic agent

Melting Point: Mp 90-100°

Calculated Log P Data: Log P 3.27 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (rat, ipr) 1510 mg/kg. Exp. reprod. effects

Sigma: C5548