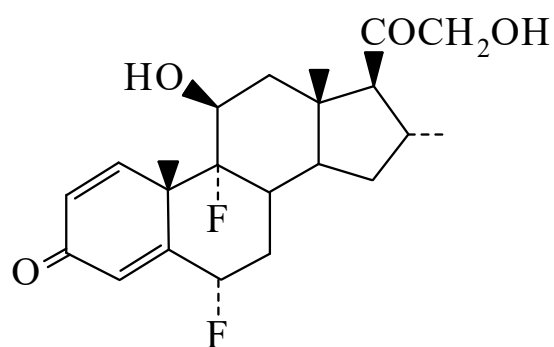




>>Entry Name: **Diflucortolone**, BAN, INN, USAN

Synonym(s): 6,9-Difluoro-11,21-dihydroxy-16-methylpregna-1,4-diene-3,20-dione, 9Cl, 8Cl



CAS Registry Number: 2607-06-9

Molecular Formula: $C_{22}H_{28}F_2O_4$

Molecular Weight: 394.458

Accurate Mass: 394.195566

Percentage Composition: C 66.99%; H 7.15%; F 9.63%; O 16.22%

Use/Importance: Glucocorticoid. Antiinflammatory and antiallergic agent

Melting Point: Mp 248-249°

Optical Rotation: $[\alpha]_D^{22} +111$ (MeOH)

Calculated Log P Data: Log P 1.5 (uncertain value) (calc)

Other Data: Stereochem. is (6 α ,9 α ,11 β ,16 α ,17 β)

>>Derivative: 21-Pentanoyl

Synonym(s): **Diflucortolone valerate**, JAN. Claral. Demetex. Neriforte. Nerilan. Nerisone. Talacort. Temetex. Texmeten. Ro 10-7614. SHK 183

CAS Registry Number: 59198-70-8

Molecular Formula: $C_{27}H_{36}F_2O_5$

Molecular Weight: 478.575

Accurate Mass: 478.253081

Percentage Composition: C 67.76%; H 7.58%; F 7.94%; O 16.72%

Use/Importance: Antiinflammatory and antiallergic agent

Physical Description: Cryst.

Melting Point: Mp 195-195.5°

Optical Rotation: $[\alpha]_D^{22} +100.8$ (dioxan)

Calculated Log P Data: Log P 3.63 (uncertain value) (calc)

>>Derivative: 21-(2,2-Dimethylpropanoyl)

Synonym(s): **Diflucortolone pivalate**, USAN. SH 968

CAS Registry Number: 15845-96-2

Molecular Formula: $C_{27}H_{36}F_2O_5$

Molecular Weight: 478.575

Accurate Mass: 478.253081

Percentage Composition: C 67.76%; H 7.58%; F 7.94%; O 16.72%

Use/Importance: Antiinflammatory and antiallergic agent

Calculated Log P Data: Log P 3.28 (uncertain value) (calc)

Sigma: D8411

References:

Belg. Pat., 1964, Schering, 639 708; CA, **62**, 14786g, (synth)

Kapp, J.F. et al., *Arzneim.-Forsch.*, 1976, **26**, 1462, (pharmacol)

Alhadeff, M., *Drugs of Today (Barcelona)*, 1976, **12**, 259, (valerate)

Joseph-Nathan, P. et al., *Spectrochim. Acta A*, 1984, **40**, 347, (F-19 nmr)

Hoppe, G., *Drugs, Suppl.* 5, 1988, **36**, 24, (use, rev)

Martindale, *The Extra Pharmacopoeia*, 31st edn., Pharmaceutical Press, 1996, 1045

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DKF130