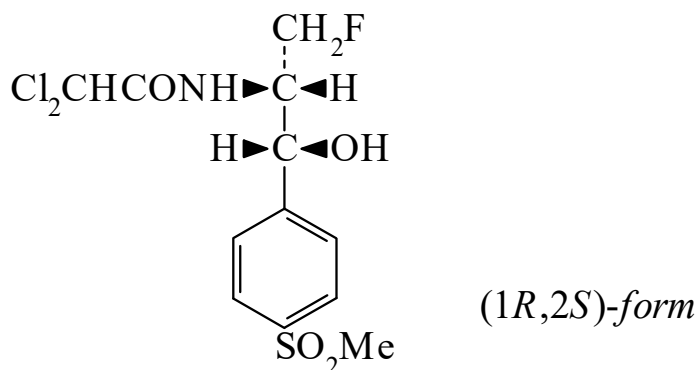




>>Entry Name: Florfenicol, BAN, INN, USAN

Synonym(s): 2,2-Dichloro-*N*-[1-(fluoromethyl)-2-hydroxy-2-[4-(methylsulfonyl)phenyl]ethyl]acetamide, 9Cl. 1-(4-Methylsulfonylphenyl)-2-dichloroacetamido-3-fluoro-1-propanol. Sch 25298



CAS Registry Number: 76639-94-6

Molecular Formula: C₁₂H₁₄Cl₂FNO₄S

Molecular Weight: 358.217

Accurate Mass: 357.000461

Percentage Composition: C 40.24%; H 3.94%; Cl 19.79%; F 5.30%; N 3.91%; O 17.87%; S 8.95%

Use/Importance: Veterinary antibacterial agent

Calculated Log P Data: Log P -0.12 (calc)

>>Variant: (1*R*,2*S*)-form

CAS Registry Number: 73231-34-2

Molecular Formula: C₁₂H₁₄Cl₂FNO₄S

Molecular Weight: 358.217

Accurate Mass: 357.000461

Percentage Composition: C 40.24%; H 3.94%; Cl 19.79%; F 5.30%; N 3.91%; O 17.87%; S 8.95%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 151-152°

Optical Rotation: $[\alpha]_D^{20} -18.4$ (c, 0.5 in DMF)

>>Variant: (1*S*,2*R*)-form

CAS Registry Number: 81588-76-3

Molecular Formula: C₁₂H₁₄Cl₂FNO₄S

Molecular Weight: 358.217

Accurate Mass: 357.000461

Percentage Composition: C 40.24%; H 3.94%; Cl 19.79%; F 5.30%; N 3.91%; O 17.87%; S 8.95%

Melting Point: Mp 153-154°

>>Variant: (1*R**S*,2*S**R*)-form

Synonym(s): DL-*threo*-form

CAS Registry Number: 105182-35-2

Molecular Formula: C₁₂H₁₄Cl₂FNO₄S

Molecular Weight: 358.217

Accurate Mass: 357.000461

Percentage Composition: C 40.24%; H 3.94%; Cl 19.79%; F 5.30%; N 3.91%; O 17.87%; S 8.95%

Physical Description: Fine cryst. (2-propanol)

Melting Point: Mp 150-151.5°

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