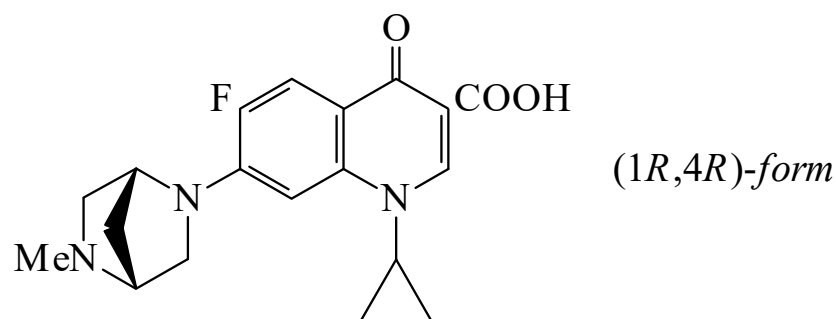




>>Entry Name: **Danofloxacin**, BAN, INN

Synonym(s): 1-Cyclopropyl-6-fluoro-1,4-dihydro-7-(5-methyl-2,5-diazabicyclo[2.2.1]hept-2-yl)-4-oxo-3-quinolinecarboxylic acid, 9Cl. Advocin



Molecular Formula: C₁₉H₂₀FN₃O₃

Molecular Weight: 357.384

Accurate Mass: 357.14887

Percentage Composition: C 63.86%; H 5.64%; F 5.32%; N 11.76%; O 13.43%

Use/Importance: Veterinary antibacterial agent. Used in treatment of respiratory disease

Calculated Log P Data: Log P -1.13 (calc)

>>Variant: (1*R*,4*R*)-form

CAS Registry Number: 138808-76-1

Molecular Formula: C₁₉H₂₀FN₃O₃

Molecular Weight: 357.384

Accurate Mass: 357.14887

Percentage Composition: C 63.86%; H 5.64%; F 5.32%; N 11.76%; O 13.43%

Physical Description: Cryst.

>>Derivative: Monomethanesulfonate

CAS Registry Number: 138874-49-4

Physical Description: Solid + 1.5H₂O

Melting Point: Mp 310-312° (sesquihydrate)

>>Variant: (1*S*,4*S*)-form

CAS Registry Number: 112398-08-0

Molecular Formula: C₁₉H₂₀FN₃O₃

Molecular Weight: 357.384

Accurate Mass: 357.14887

Percentage Composition: C 63.86%; H 5.64%; F 5.32%; N 11.76%; O 13.43%

Melting Point: Mp 268-272°

Other Data: Pharmacol. active isomer

>>Derivative: Monomethanesulfonate

Synonym(s): **Danofloxacin mesylate**, USAN. CP-76 136

CAS Registry Number: 119478-55-6

Physical Description: Cryst. + 1.5H₂O

Melting Point: Mp 337-339° (sesquihydrate)

>>Derivative: Et ester

Molecular Formula: C₂₁H₂₄FN₃O₃

Molecular Weight: 385.437

Accurate Mass: 385.18017

Percentage Composition: C 65.44%; H 6.28%; F 4.93%; N 10.90%; O 12.45%

Melting Point: Mp 208-211°

References:

Eur. Pat., 1989, *Pfizer*, 342 849; *CA*, **113**, 6177m, (*synth*)

Giles, C.J. *et al.*, *J. Vet. Pharmacol. Ther.*, 1991, **14**, 400, (*activity, pharmacokinetic*)

McGuirk, P.R. *et al.*, *J. Med. Chem.*, 1992, **35**, 611, (*synth, sar*)

Schneider, R.P. *et al.*, *Biol. Mass. Spectrom.*, 1993, **22**, 595, (*hplc-ms*)