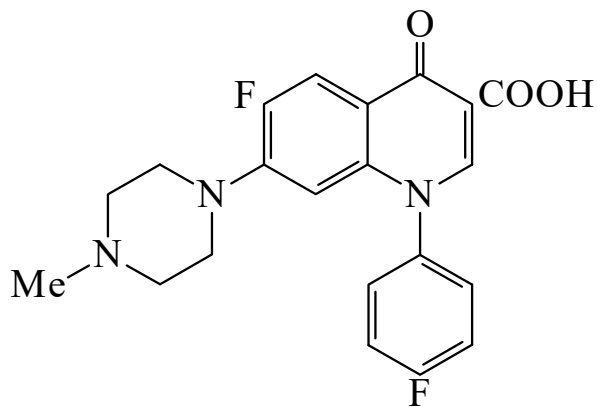




>>Entry Name: Difloxacin, INN

Synonym(s): 1-(4-Fluorophenyl)-6-fluoro-7-(4-methyl-1-piperazinyl)-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid



CAS Registry Number: 98106-17-3

Related CAS Registry Numbers(s): 102856-03-1

Molecular Formula: C₂₁H₁₉F₂N₃O₃

Molecular Weight: 399.396

Accurate Mass: 399.139448

Percentage Composition: C 63.15%; H 4.79%; F 9.51%; N 10.52%; O 12.02%

Use/Importance: Antibacterial agent. DNA gyrase inhibitor

Physical Description: Cryst.

Melting Point: Mp 282-284°

Calculated Log P Data: Log P 0.8 (calc)

Hazard & Toxicity: Prod. exp. articular cartilage lesions

>>Derivative: Hydrochloride

Synonym(s): Difloxacin hydrochloride, USAN. Abbott 56619

CAS Registry Number: 91296-86-5

Physical Description: Cryst. (H₂O)

Melting Point: Mp 275 dec.°

References:

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Fernandes, P.B. *et al.*, *Antimicrob. Agents Chemother.*, 1986, **29**, 201, (*pharmacol*)
Granneman, G.R. *et al.*, *Antimicrob. Agents Chemother.*, 1986, **30**, 689, (*metab*)
Granneman, G.R. *et al.*, *J. Chromatogr.*, 1987, **413**, 199, (*hplc*)
Shen, L.L. *et al.*, *Biochemistry*, 1989, **28**, 3886, (*mech, sar*)
Xiao, W. *et al.*, *J. Pharm. Sci.*, 1989, **78**, 585, (*activity*)
Burkhardt, J.E. *et al.*, *Vet. Pathol.*, 1990, **27**, 162, (*tox*)
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