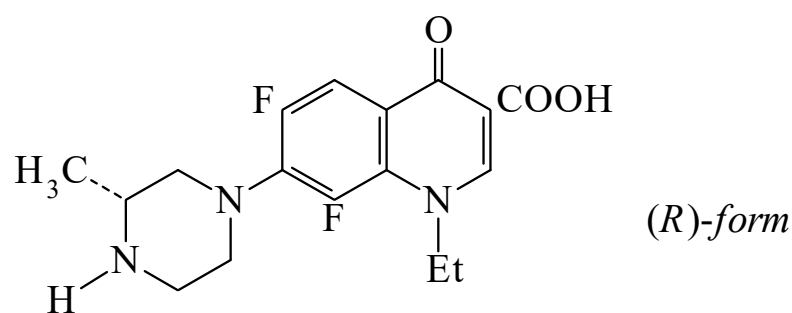




>>Entry Name: Lomefloxacin, BAN, INN, USAN

Synonym(s): 1-Ethyl-6,8-difluoro-1,4-dihydro-7-(3-methyl-1-piperazinyl)-4-oxo-3-quinolinecarboxylic acid, 9Cl. Uniquin. NY 198. SC 47111A



CAS Registry Number: 98079-51-7

Molecular Formula: C₁₇H₁₉F₂N₃O₃

Molecular Weight: 351.352

Accurate Mass: 351.139448

Percentage Composition: C 58.11%; H 5.45%; F 10.81%; N 11.96%; O 13.66%

Use/Importance: Antibacterial agent

Development Status: Launched 1989

Calculated Log P Data: Log P -1.34 (calc)

Hazard & Toxicity: Eye irritant (rabbit). LD₅₀ (rat, orl) 3800 mg/kg. LD₅₀ (mus, ivn) 246 mg/kg. Mutagenic props

Sigma: L2906

>>Variant: (R)-form

CAS Registry Number: 98079-55-1

Molecular Formula: C₁₇H₁₉F₂N₃O₃

Molecular Weight: 351.352

Accurate Mass: 351.139448

Percentage Composition: C 58.11%; H 5.45%; F 10.81%; N 11.96%; O 13.66%

Physical Description: Needles (CHCl₃)

Melting Point: Mp 244.5-245°

Optical Rotation: [α]_D²¹ +39.5 (c, 1 in CHCl₃)

>>Variant: (S)-form

CAS Registry Number: 98079-62-0

Molecular Formula: C₁₇H₁₉F₂N₃O₃

Molecular Weight: 351.352

Accurate Mass: 351.139448

Percentage Composition: C 58.11%; H 5.45%; F 10.81%; N 11.96%; O 13.66%

Physical Description: Needles (CHCl₃)

Optical Rotation: [α]_D²⁰ -34.1 (c, 1 in CHCl₃)

Other Data: Reported to lack side effects of (±)-form. More active than (R)- or (±)-forms against *Mycobacteria tuberculosis* and other mycobacteria

>>Variant: (±)-form

CAS Registry Number: 156239-05-3

Molecular Formula: C₁₇H₁₉F₂N₃O₃

Molecular Weight: 351.352

Accurate Mass: 351.139448

Percentage Composition: C 58.11%; H 5.45%; F 10.81%; N 11.96%; O 13.66%

Physical Description: Needles (EtOH)

Melting Point: Mp 239-240.5°

>>Derivative: Hydrochloride

Synonym(s): Lomefloxacin hydrochloride, JAN, USAN. Maxaquin. Baeron. Chimono. Lomebact

CAS Registry Number: 98079-52-8

Physical Description: Needles (H₂O)

Melting Point: Mp 290-300 dec.°

Hazard & Toxicity: LD₅₀ (rat, orl) 1556 mg/kg. LD₅₀ (rat, ivn) 328 mg/kg