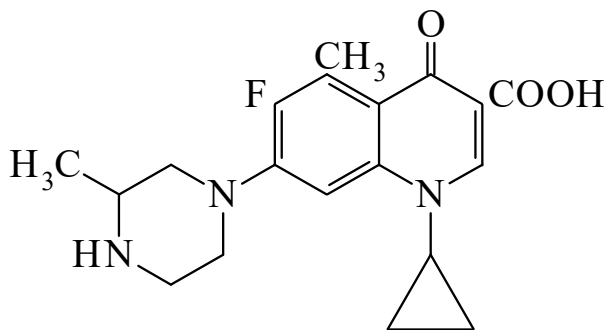




>>Entry Name: **Grepafloxacin**, INN

Synonym(s): 1-Cyclopropyl-6-fluoro-1,4-dihydro-5-methyl-7-(3-methyl-1-piperazinyl)-4-oxo-3-quinolinecarboxylic acid, 9Cl. OPC 17116



CAS Registry Number: 119914-60-2

Related CAS Registry Numbers(s): 146761-68-4 146761-69-5

Molecular Formula: C₁₉H₂₂FN₃O₃

Molecular Weight: 359.399

Accurate Mass: 359.16452

Percentage Composition: C 63.50%; H 6.17%; F 5.29%; N 11.69%; O 13.36%

Use/Importance: Antibacterial agent. Effective against respiratory tract infections

Development Status: Approved by FDA (1997)

>>Variant: (±)-form

CAS Registry Number: 146863-02-7

Molecular Formula: C₁₉H₂₂FN₃O₃

Molecular Weight: 359.399

Accurate Mass: 359.16452

Percentage Composition: C 63.50%; H 6.17%; F 5.29%; N 11.69%; O 13.36%

Melting Point: Mp 190-192°

>>Derivative: Hydrochloride

Synonym(s): Grepafloxacin hydrochloride, JAN, USAN

CAS Registry Number: 161967-81-3

Extra CAS Registry Numbers(s): 173689-78-6

Physical Description: Cryst. + 1.5 H₂O (EtOH aq.)

Other Data: Mp >300°

>>Derivative: Me ester

Molecular Formula: C₂₀H₂₄FN₃O₃

Molecular Weight: 373.426

Accurate Mass: 373.18017

Percentage Composition: C 64.33%; H 6.48%; F 5.09%; N 11.25%; O 12.85%

Physical Description: Powder (MeOH/Et₂O)

Melting Point: Mp 210-212°

>>Derivative: Amide

Molecular Formula: C₁₉H₂₃FN₄O₂

Molecular Weight: 358.415

Accurate Mass: 358.180504

Percentage Composition: C 63.67%; H 6.47%; F 5.30%; N 15.63%; O 8.93%

Physical Description: Pale yellow powder (MeOH/Et₂O)

Melting Point: Mp 213-214°

>>Derivative: N-Ac

Molecular Formula: C₂₁H₂₄FN₃O₄

Molecular Weight: 401.437

Accurate Mass: 401.175085

Percentage Composition: C 62.83%; H 6.03%; F 4.73%; N 10.47%; O 15.94%

Physical Description: Powder (MeOH/Et₂O)

Melting Point: Mp 235-237°

References: