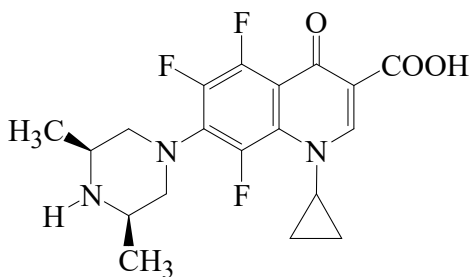




>>Entry Name: Orbifloxacin

Synonym(s): 1-Cyclopropyl-7-(3,5-dimethyl-1-piperazinyl)-5,6,8-trifluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid, 9Cl



CAS Registry Number: 119354-10-8

Molecular Formula: $C_{19}H_{20}F_3N_3O_3$

Molecular Weight: 395.381

Accurate Mass: 395.145676

Percentage Composition: C 57.72%; H 5.10%; F 14.42%; N 10.63%; O 12.14%

Biological Use/Importance: Antibacterial agent

Other Data: Used as veterinary medicine in Japan

>>Variant: (3*RS*, 5*SR*)-form

Synonym(s): *cis*-form

CAS Registry Number: 113617-63-3

Molecular Formula: $C_{19}H_{20}F_3N_3O_3$

Molecular Weight: 395.381

Accurate Mass: 395.145676

Percentage Composition: C 57.72%; H 5.10%; F 14.42%; N 10.63%; O 12.14%

Physical Description: Cryst. ($CHCl_3$ /EtOH)

Melting Point: Mp 259-260°

References:

Eur. Pat., 1987, *Dainippon*, 242 789; *CA*, **108**, 150325x, (*synth, pharmacol*)

Miyamoto, T. *et al.*, *J. Med. Chem.*, 1990, **33**, 1645-1656, (*synth, pmr, ir, pharmacol*)

Morimura, T. *et al.*, *Chem. Pharm. Bull.*, 1995, **43**, 1000-1004; 1997, **45**, 373-377, (*photodegradation*)

Nakamura, S. *et al.*, *Drugs*, 1995, **49**, 152-158, (*rev*)