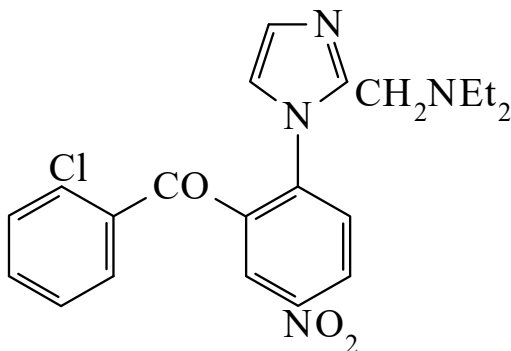




>>Entry Name: Nizofenone, INN

Synonym(s): (2-Chlorophenyl)[2-[2-[(diethylamino)methyl]-1*H*-imidazol-1-yl]-5-nitrophenyl]methanone, 9Cl. 2'-Chloro-2-[2-[(diethylamino)methyl]imidazol-1-yl]-5-nitrobenzophenone. Midafenone. Ekonol. Y 9179



CAS Registry Number: 54533-85-6

Molecular Formula: C₂₁H₂₁ClN₄O₃

Molecular Weight: 412.875

Accurate Mass: 412.130218

Percentage Composition: C 61.09%; H 5.13%; Cl 8.59%; N 13.57%; O 11.63%

Use/Importance: Antianoxic, cerebroprotective, nootropic agent

Physical Description: Yellow cryst.

Development Status: Launched 1988

Melting Point: Mp 75-76°

Calculated Log P Data: Log P 3.97 (calc)

>>Derivative: Fumarate

Synonym(s): Nizofenone fumarate, JAN

CAS Registry Number: 93929-95-4

Physical Description: Yellow cryst.

Melting Point: Mp 158-159°

Hazard & Toxicity: LD₅₀ (rat, orl) 1580 mg/kg. LD₅₀ (rat, scu) 1629 mg/kg. LD₅₀ (rat, ivn) 63 mg/kg. Exp. reprod. and teratogenic effects

References:

- Ger. Pat.*, 1974, *Yoshitomi Pharm*, 2 403 416; *CA*, **84**, 44045g, (*synth, pharmacol*)
Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 1395
Matsumoto, Y. et al., Eur. J. Pharmacol., 1994, **262**, 157, (*pharmacol*)