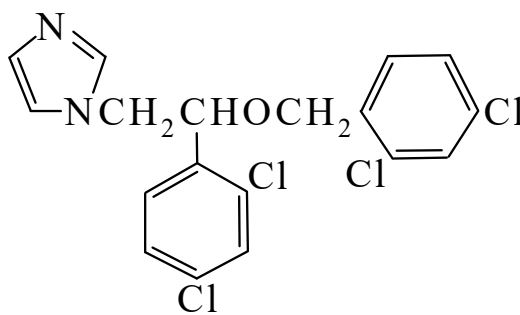




>>Entry Name: Miconazole, BAN, INN

Synonym(s): 1-[2-(2,4-Dichlorophenyl)-2-[(2,4-dichlorophenyl)methoxy]ethyl]-1*H*-imidazole, 9Cl. 1-[2,4-Dichloro-β-[(2,4-dichlorobenzyl)oxy]phenethyl]imidazole, 8Cl



CAS Registry Number: 22916-47-8

Molecular Formula: C₁₈H₁₄Cl₄N₂O

Molecular Weight: 416.132

Accurate Mass: 413.986021

Percentage Composition: C 51.95%; H 3.39%; Cl 34.08%; N 6.73%; O 3.84%

Use/Importance: Antifungal agent. Functions as Lanosterol C-14 demethylation inhibitor

Calculated Log P Data: Log P 5.96 (uncertain value) (calc)

Other Data: Activity limited by rapid metab. *in vivo* and high lipophilicity

>>Variant: (±)-form

Molecular Formula: C₁₈H₁₄Cl₄N₂O

Molecular Weight: 416.132

Accurate Mass: 413.986021

Percentage Composition: C 51.95%; H 3.39%; Cl 34.08%; N 6.73%; O 3.84%

>>Derivative: Nitrate

Synonym(s): Miconazole nitrate, JAN, USAN. Daktarin. Dermonistat. Monistat. Many other names

CAS Registry Number: 22832-87-7

Melting Point: Mp 170-185°

Hazard & Toxicity: Local irritation and sensitivty reactions reported when used topically. Can cause contact dermatitis. LD₅₀ (rat, orl) 920 mg/kg. Exp. reprod. and teratogenic effects

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