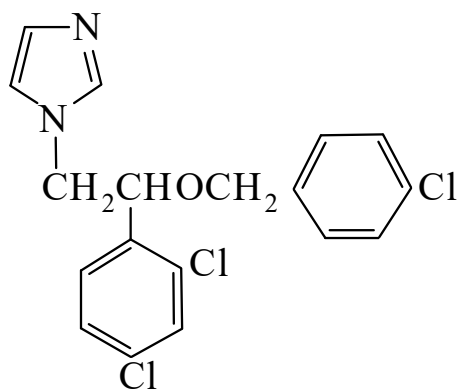




>>Entry Name: Econazole, BAN, INN, USAN

Synonym(s): 1-[2-[(4-Chlorophenyl)methoxy]-2-(2,4-dichlorophenyl)ethyl]-1*H*-imidazole, 9Cl. 1-[2,4-Dichloro-β-[(*p*-chlorobenzyl)oxy]phenethyl]imidazole, 8Cl. SQ 13050



CAS Registry Number: 27220-47-9

Type of Compound Code(s): XA1150 XA1550

Molecular Formula: C₁₈H₁₅Cl₃N₂O

Molecular Weight: 381.687

Accurate Mass: 380.024994

Percentage Composition: C 56.64%; H 3.96%; Cl 27.87%; N 7.34%; O 4.19%

Use/Importance: Topical antifungal, antibacterial agent

Calculated Log P Data: Log P 5.25 (uncertain value) (calc)

Hazard & Toxicity: Skin allergen

>>Variant: (*R*)-form

CAS Registry Number: 73094-39-0

Molecular Formula: C₁₈H₁₅Cl₃N₂O

Molecular Weight: 381.687

Accurate Mass: 380.024994

Percentage Composition: C 56.64%; H 3.96%; Cl 27.87%; N 7.34%; O 4.19%

Melting Point: Mp 85.9-87.3°

Optical Rotation: [α]_D²⁵ -103 (c, 1 in MeOH)

Other Data: Superior antifungal activity to (*S*)-form claimed

>>Variant: (*S*)-form

CAS Registry Number: 73094-37-8

Molecular Formula: C₁₈H₁₅Cl₃N₂O

Molecular Weight: 381.687

Accurate Mass: 380.024994

Percentage Composition: C 56.64%; H 3.96%; Cl 27.87%; N 7.34%; O 4.19%

Melting Point: Mp 85.9-87.3°

Optical Rotation: [α]_D²⁵ +102.4 (c, 1 in MeOH)

Other Data: Readily racemises *in vivo* and *in vitro* (pH 7.4)

>>Variant: (±)-form

Molecular Formula: C₁₈H₁₅Cl₃N₂O

Molecular Weight: 381.687

Accurate Mass: 380.024994

Percentage Composition: C 56.64%; H 3.96%; Cl 27.87%; N 7.34%; O 4.19%

Melting Point: Mp 86.8°

>>Derivative: Nitrate

Synonym(s): Econazole nitrate, JAN, USAN. Ecostatin. Econacort. Palavale. Pevaryl. Spectazole. Many other names

CAS Registry Number: 68797-31-9

Extra CAS Registry Numbers(s): 24169-02-6

Melting Point: Mp 162°

Solubility: Spar. sol. H₂O, org. solvs.

Hazard & Toxicity: May produce irritant or burning sensation when used topically

References: