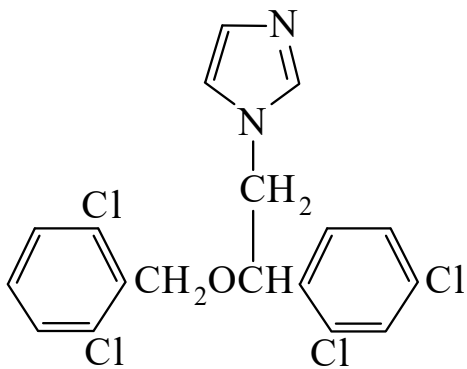




>>Entry Name: Isoconazole, BAN, INN, USAN

Synonym(s): 1-[2-(2,4-Dichlorophenyl)-2-[(2,6-dichlorophenyl)methoxy]ethyl]-1*H*-imidazole, 9Cl. 1-[2,4-Dichloro-β-[(2,6-dichlorobenzyl)oxy]phenethyl]imidazole, 8Cl



CAS Registry Number: 27523-40-6

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 and antibacterial agent

>>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%

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

>>Derivative: Nitrate

Synonym(s): Isoconazole nitrate, JAN. Adestan. Fazol. Gyno-Travogen. Icaden. Isogyn. Mupaten. Travogen. Travogyn. Ufarin. FF 149. R 15454

CAS Registry Number: 24168-96-5

Melting Point: Mp 182-183°

Hazard & Toxicity: LD₅₀ (rat, orl) 5600 mg/kg. Exp. reprod. and teratogenic effects

References:

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Kessler, H.J. *et al.*, *Arzneim.-Forsch.*, 1979, **29**, 1352, (*pharmacol*)

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 324

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, IKN200