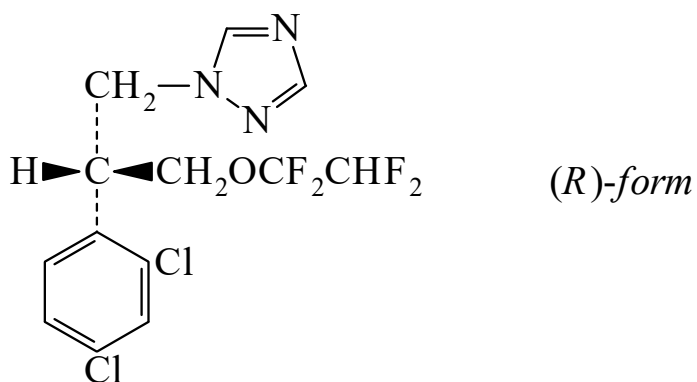




>>Entry Name: Tetraconazole, BSI

Synonym(s): 1-[2-(2,4-Dichlorophenyl)-3-(1,1,2,2-tetrafluoroethoxy)propyl]-1*H*-1,2,4-triazole, 9Cl. 2-(2,4-Dichlorophenyl)-3-(1*H*-1,2,4-triazol-1-yl)propyl 1,1,2,2-tetrafluoroethyl ether. M 14360



CAS Registry Number: 112281-77-3

Related CAS Registry Numbers(s): 124842-94-0 131320-42-8

Molecular Formula: C₁₃H₁₁Cl₂F₄N₃O

Molecular Weight: 372.148

Accurate Mass: 371.021528

Percentage Composition: C 41.96%; H 2.98%; Cl 19.05%; F 20.42%; N 11.29%; O 4.30%

>>Variant: (*R*)-form

CAS Registry Number: 131320-41-7

Molecular Formula: C₁₃H₁₁Cl₂F₄N₃O

Molecular Weight: 372.148

Accurate Mass: 371.021528

Percentage Composition: C 41.96%; H 2.98%; Cl 19.05%; F 20.42%; N 11.29%; O 4.30%

Use/Importance: More active enantiomer

>>Variant: (±)-form

Molecular Formula: C₁₃H₁₁Cl₂F₄N₃O

Molecular Weight: 372.148

Accurate Mass: 371.021528

Percentage Composition: C 41.96%; H 2.98%; Cl 19.05%; F 20.42%; N 11.29%; O 4.30%

Use/Importance: Fungicide. Steroid demethylation inhibitor

Physical Description: Viscous oil

Hazard & Toxicity: LD₅₀ (rat, orl) 1250 mg/kg

References:

Tombo, G.M.R. *et al.*, *Angew. Chem., Int. Ed.*, 1991, **30**, 1193, (*rev*)

Bianchi, D. *et al.*, *J. Agric. Food Chem.*, 1991, **39**, 197, (*synth, activity*)

Carzaniga, R. *et al.*, *Pestic. Biochem. Physiol.*, 1991, **40**, 274, (*activity*)

Pesticide Manual, 9th edn., 1991, No. 11415

Bianchi, D. *et al.*, *Pure Appl. Chem.*, 1992, **64**, 1073, (*synth, abs config, activity*)