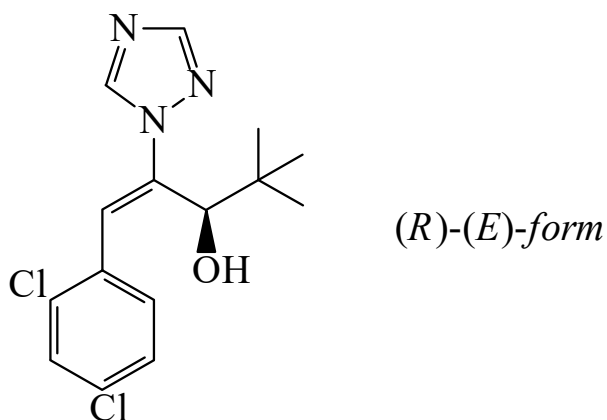




>>Entry Name: Diniconazole, ANSI, BSI, ISO

Synonym(s): β -[(2,4-Dichlorophenyl)methylene]- α -(1,1-dimethylethyl)-1*H*-1,2,4-triazole-1-ethanol, 9Cl. 1-(2,4-Dichlorophenyl)-4,4-dimethyl-2-(1*H*-1,2,4-triazol-1-yl)-1-penten-3-ol. S 3308



CAS Registry Number: 70217-36-6

Related CAS Registry Numbers(s): 76714-16-4 76714-88-0 83657-19-6 91200-11-2 96444-13-2 96444-14-3 100484-49-9

Molecular Formula: C₁₅H₁₇Cl₂N₃O

Molecular Weight: 326.224

Accurate Mass: 325.074866

Percentage Composition: C 55.23%; H 5.25%; Cl 21.74%; N 12.88%; O 4.90%

>>Variant: (*R*)-(*E*)-form

Synonym(s): Diniconazole-M

CAS Registry Number: 83657-18-5

Molecular Formula: C₁₅H₁₇Cl₂N₃O

Molecular Weight: 326.224

Accurate Mass: 325.074866

Percentage Composition: C 55.23%; H 5.25%; Cl 21.74%; N 12.88%; O 4.90%

Use/Importance: More potent isomer

>>Variant: ($\pm$)-(*E*)-form

CAS Registry Number: 83657-24-3

Molecular Formula: C₁₅H₁₇Cl₂N₃O

Molecular Weight: 326.224

Accurate Mass: 325.074866

Percentage Composition: C 55.23%; H 5.25%; Cl 21.74%; N 12.88%; O 4.90%

Use/Importance: Fungicide. Steroid demethylation inhibitor

Physical Description: Cryst.

Melting Point: Mp 134-156°

Hazard & Toxicity: LD₅₀ (rat, orl) 639 mg/kg

>>Derivative: Dihydro

see Diclobutrazol, MDX43-U

References:

Funaki, Y. *et al.*, *Nippon Noyaku Gakkaishi*, 1984, **9**, 229; *CA*, **102**, 19468e, (*synth, activity*)

Yoshida, Y. *et al.*, *Biochem. Biophys. Res. Commun.*, 1986, **137**, 513, (*activity*)

Eur. Pat., 1986, 170 350; *CA*, **106**, 50222b, (*synth*)

Takano, H., *Jpn. Pestic. Inf.*, 1986, **49**, 18, (*activity, metab, tox*)

Fletcher, R.A. *et al.*, *Plant Cell Physiol.*, 1986, **27**, 367, (*activity*)

Pesticide Manual, 9th edn., 1991, No. 5067

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DGC100