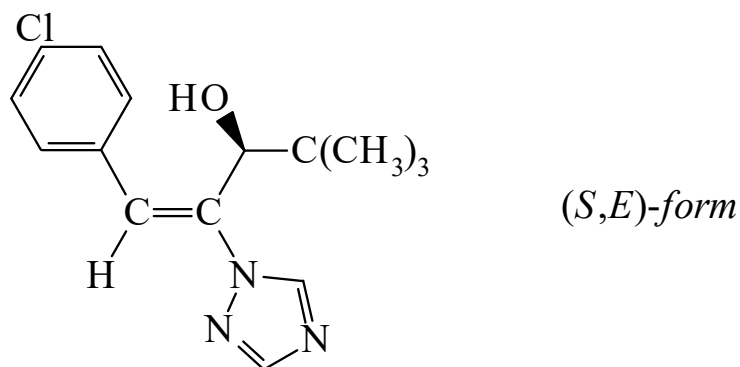




>>Entry Name: Uniconazole, ANSI, BSI

Synonym(s): β -[(4-Chlorophenyl)methylene]- α -(1,1-dimethylethyl)-1*H*-1,2,4-triazole-1-ethanol, 9Cl. 1-(4-Chlorophenyl)-4,4-dimethyl-2-(1*H*-1,2,4-triazol-1-yl)pent-1-en-3-ol. S 3307D



CAS Registry Number: 70217-33-3

Related CAS Registry Numbers(s): 76713-90-1 76714-83-5 83657-16-3 83657-17-4 91237-21-7 98243-94-8 100761-65-7 104757-48-4

Molecular Formula: C₁₅H₁₈ClN₃O

Molecular Weight: 291.779

Accurate Mass: 291.113839

Percentage Composition: C 61.75%; H 6.22%; Cl 12.15%; N 14.40%; O 5.48%

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

CAS Registry Number: 83657-22-1

Molecular Formula: C₁₅H₁₈ClN₃O

Molecular Weight: 291.779

Accurate Mass: 291.113839

Percentage Composition: C 61.75%; H 6.22%; Cl 12.15%; N 14.40%; O 5.48%

Use/Importance: Plant growth regulator. Gibberellin synth. inhibitor

Physical Description: Cryst.

Melting Point: Mp 147-164°

Other Data: (*S*)-enantiomer more active, known as Uniconazole-P

Hazard & Toxicity: LD₅₀ (rat, oral) 2020 mg/kg

References:

- Eur. Pat.*, 1982, 54 431; *CA*, **97**, 216186r, (*synth, activity, resolu*n)
Funaki, Y. *et al.*, *Nippon Noyaku Gakkaishi*, 1984, **9**, 229; *CA*, **102**, 19468e, (*synth, activity*)
Izumi, K. *et al.*, *Plant Cell Physiol.*, 1984, **25**, 611; 1985, **26**, 821, (*activity*)
Fletcher, R.A. *et al.*, *Plant Cell Physiol.*, 1986, **27**, 367, (*activity, props*)
Noguchi, H., *Jpn. Pestic. Inf.*, 1987, **51**, 15, (*rev, activity, use*)
Izumi, K. *et al.*, *Gibberellins*, 1989, 330, (*rev, activity*)
Pesticide Manual, 10th edn., 1994, No. 713