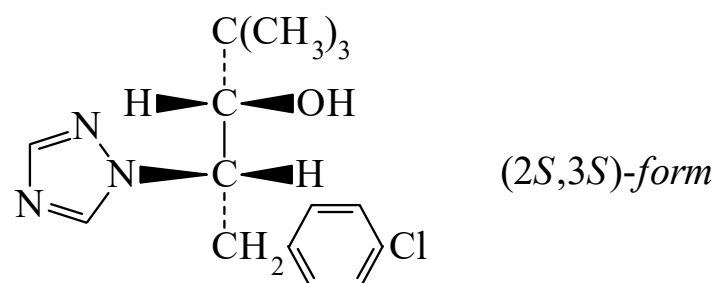




>>Entry Name: Paclobutrazol, ANSI, BSI, ISO

Synonym(s): β -[(4-Chlorophenyl)methyl]- 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)-3-pentanol. Bonzi. Clipper. Cultar. Parlay. Many other names



CAS Registry Number: 76738-62-0

Related CAS Registry Numbers(s): 66345-53-7 76738-64-2 82336-55-8 98169-53-0 102735-64-8 115509-55-2

Molecular Formula: C₁₅H₂₀ClN₃O

Molecular Weight: 293.795

Accurate Mass: 293.129489

Percentage Composition: C 61.32%; H 6.86%; Cl 12.07%; N 14.30%; O 5.45%

Use/Importance: Plant growth regulator

Other Data: Paclobutrazol is the *erythro* diastereoisomer of which the active enantiomer is the (2*S*,3*S*)(or α *S*, β *S* acc. to *CA* nomenclature) form. The coml. prod. is currently the (2*RS*,3*RS*)-racemate

>>Variant: (2*S*,3*S*)-form

CAS Registry Number: 66346-05-2

Molecular Formula: C₁₅H₂₀ClN₃O

Molecular Weight: 293.795

Accurate Mass: 293.129489

Percentage Composition: C 61.32%; H 6.86%; Cl 12.07%; N 14.30%; O 5.45%

Melting Point: Mp 138-140°

Optical Rotation: $[\alpha]_D^{20}$ -96 (c, 10 in CHCl₃)

>>Variant: (2*RS*,3*RS*)-form

Molecular Formula: C₁₅H₂₀ClN₃O

Molecular Weight: 293.795

Accurate Mass: 293.129489

Percentage Composition: C 61.32%; H 6.86%; Cl 12.07%; N 14.30%; O 5.45%

Physical Description: Solid

Melting Point: Mp 165-166°

Hazard & Toxicity: LD₅₀ (male rat, orl) 2000 mg/kg

References:

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