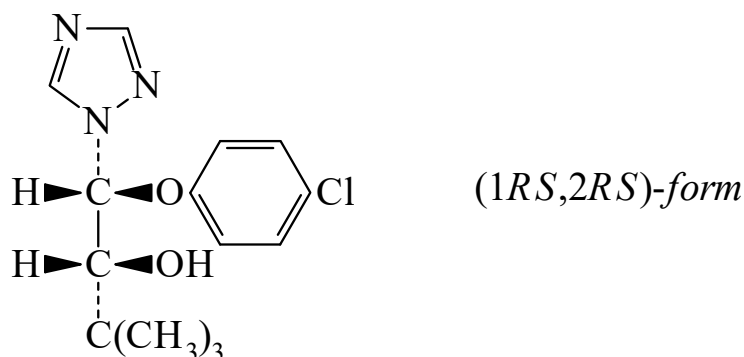




>>Entry Name: **Triadimenol**, BSI, ISO

Synonym(s): β -(4-Chlorophenoxy)- α -(1,1-dimethylethyl)-1*H*-1,2,4-triazole-1-ethanol, 9Cl. 1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1*H*-1,2,4-triazol-1-yl)-2-butanol. Baytan. Bayfidan



CAS Registry Number: 55219-65-3

Related CAS Registry Numbers(s): 70585-35-2 70585-37-4 72103-18-5 73804-20-3 89482-72-4 89497-63-2 89497-64-3 89497-65-4 89497-66-5 89497-67-6 93779-51-2 118185-96-9

Molecular Formula: C₁₄H₁₈ClN₃O₂

Molecular Weight: 295.768

Accurate Mass: 295.108754

Percentage Composition: C 56.85%; H 6.13%; Cl 11.99%; N 14.21%; O 10.82%

Use/Importance: Fungicide. Steroid demethylation inhibitor. Active form of Triadimefon in the plant

Other Data: May be used as a mixt. with Tridemorph [DLG10-K](#) (Dorin)

>>Derivative: 2-Ketone

Synonym(s): 1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1*H*-1,2,4-triazol-1-yl)-2-butanone, 9Cl. **Triadimefon**, BSI, ISO. Bayleton. Admiral

CAS Registry Number: 43121-43-3

Molecular Formula: C₁₄H₁₆ClN₃O₂

Molecular Weight: 293.752

Accurate Mass: 293.093104

Percentage Composition: C 57.24%; H 5.49%; Cl 12.07%; N 14.30%; O 10.89%

Use/Importance: Systemic agricultural fungicide

Physical Description: Solid

Melting Point: Mp 82-83°

Other Data: Reduced *in vivo* to the active principle Triadimenol. No significant difference in bioactivity of enantiomers

Hazard & Toxicity: LD₅₀ (rat, orl) 400 mg/kg

Supelco: 44-2818

>>Variant: (1*RS*, 2*RS*)-form

Synonym(s): *erythro*-form. Racemate B. Triadimenol II

CAS Registry Number: 82200-72-4

Molecular Formula: C₁₄H₁₈ClN₃O₂

Molecular Weight: 295.768

Accurate Mass: 295.108754

Percentage Composition: C 56.85%; H 6.13%; Cl 11.99%; N 14.21%; O 10.82%

Physical Description: Cryst.

Melting Point: Mp 133.5°

>>Variant: (1*RS*,2*SR*)-form

Synonym(s): *threo*-form. Racemate A. Triadimenol I

CAS Registry Number: 89482-17-7

Molecular Formula: C₁₄H₁₈ClN₃O₂

Molecular Weight: 295.768

Accurate Mass: 295.108754

Percentage Composition: C 56.85%; H 6.13%; Cl 11.99%; N 14.21%; O 10.82%

Physical Description: Cryst.

Melting Point: Mp 138°

Other Data: Ten times more active than the (*RS*,*RS*) isomer

Hazard & Toxicity: LD₅₀ (rat, orl) 700 mg/kg

References: