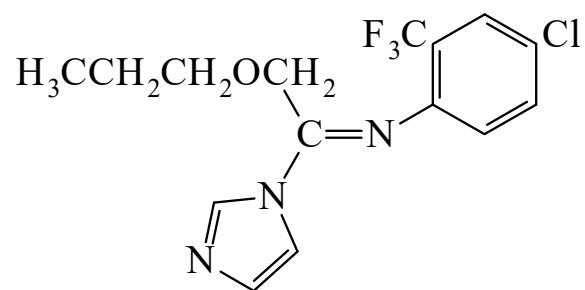




>>Entry Name: Triflumizole, BSI, JMAF

Synonym(s): 1-[1-[[4-Chloro-2-(trifluoromethyl)phenyl]imino]-2-propoxyethyl]-1*H*-imidazole, 9Cl. 4-Chloro- α,α,α -trifluoro-*N*-(1-imidazolyl-2-propoxyethylidene)-*o*-toluidine. Trifinine



Related CAS Registry Numbers(s): 99387-89-0

Molecular Formula: C₁₅H₁₅ClF₃N₃O

Molecular Weight: 345.751

Accurate Mass: 345.085573

Percentage Composition: C 52.11%; H 4.37%; Cl 10.25%; F 16.48%; N 12.15%; O 4.63%

>>Variant: (*E*)-form

CAS Registry Number: 68694-11-1

Molecular Formula: C₁₅H₁₅ClF₃N₃O

Molecular Weight: 345.751

Accurate Mass: 345.085573

Percentage Composition: C 52.11%; H 4.37%; Cl 10.25%; F 16.48%; N 12.15%; O 4.63%

Use/Importance: Fungicide

Physical Description: Cryst.

Melting Point: Mp 63.5°

pKa Value: pK_a 3.7 (25°)

Hazard & Toxicity: LD₅₀ (rat, orl) 715 mg/kg

References:

Stanis, V.F. *et al.*, *Phytopathology*, 1985, **75**, 1098, (*activity*)

Mizuno, M., *Jpn. Pestic. Inf.*, 1988, **52**, 27, (*activity, tox, use*)

Nakayama, A. *et al.*, *Nippon Noyaku Gakkaishi*, 1989, **14**, 23; *CA*, **111**, 19371d, (*synth, activity*)

Pesticide Manual, 9th edn., 1991, No. 12090