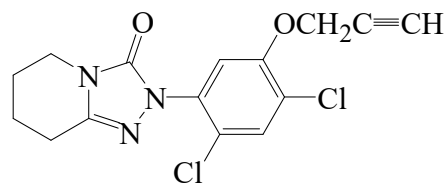




>>Entry Name: Azafenidin, BSI

Synonym(s): 2-[2,4-Dichloro-5-(2-propynyloxy)phenyl]-5,6,7,8-tetrahydro-1,2,4-triazolo[4,3-*a*]pyridin-3(2*H*)-one, 9Cl. R 6447



CAS Registry Number: 68049-83-2

Molecular Formula: C₁₅H₁₃Cl₂N₃O₂

Molecular Weight: 338.192

Accurate Mass: 337.038481

Percentage Composition: C 53.27%; H 3.87%; Cl 20.97%; N 12.42%; O 9.46%

Biological Use/Importance: Pre-emergence herbicide. Inhibits porphyrin biosynth.

Physical Description: Rust-coloured solid

Melting Point: Mp 168-169°

Hazard & Toxicity: LD₅₀ (rat, orl) >5000 mg/kg

References:

U.S. Pat., 1980, *du Pont de Nemours*, 4 213 773; *CA*, **94**, 15744k, (*synth, activity*)

Pesticide Manual, 11th edn., 1997, 37

Shapiro, R. *et al.*, *Org. Process Res. Dev.*, 2001, **5**, 593-598, (*synth, pmr*)