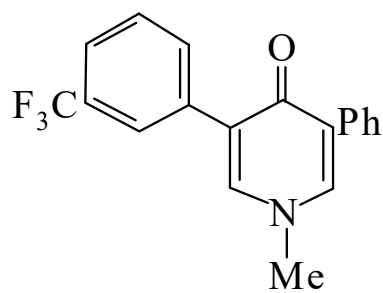




>>Entry Name: Fluridone, ANSI, BSI, ISO, WSSA

Synonym(s): 1-Methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone, 9Cl. 1-Methyl-3-phenyl-5-(α,α,α -trifluoro-*m*-tolyl)-4-pyridone. Sonar. Pride



CAS Registry Number: 59756-60-4

Molecular Formula: C₁₉H₁₄F₃NO

Molecular Weight: 329.321

Accurate Mass: 329.102748

Percentage Composition: C 69.30%; H 4.28%; F 17.31%; N 4.25%; O 4.86%

Use/Importance: Selective preemergence herbicide

Physical Description: Off-white cryst.

Melting Point: Mp 155-156°

Solubility: Mod. sol. Me₂CO, CHCl₃, EtOH; spar. Et₂O, C₆H₆; v. spar. sol. H₂O

pKa Value: pK_a 1.7

Hazard & Toxicity: LD₅₀ (rat, orl) >10000 mg/kg

References:

U.K. Pat., 1974, 1 521 092; *CA*, **85**, 46406v

Abdulla, R.F. *et al.*, *Synth. Commun.*, 1977, **7**, 305, (*synth*)

Banks, P.A. *et al.*, *Diss. Abstr. Int.*, *B*, 1979, **39**, 4680; 1982, **42**, 3903, (*activity*)

West, S.D. *et al.*, *J. Assoc. Off. Anal. Chem.*, 1981, **64**, 1205, (*detn*)

Pesticide Manual, 9th edn., 1991, No. 6640

Agrochemicals Handbook, 3rd edn., Royal Society of Chemistry, 1992, A582