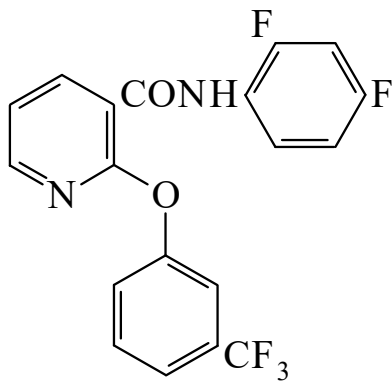




>>Entry Name: Diflufenican, BSI

Synonym(s): *N*-(2,4-Difluorophenyl)-2-[3-(trifluoromethyl)phenoxy]-3-pyridinecarboxamide, 9Cl. 2',4'-Difluoro-2-(α,α,α -trifluoro-*m*-tolylloxy)nicotinilide



CAS Registry Number: 83164-33-4

Molecular Formula: C₁₉H₁₁F₅N₂O₂

Molecular Weight: 394.3

Accurate Mass: 394.074068

Percentage Composition: C 57.88%; H 2.81%; F 24.09%; N 7.10%; O 8.12%

Use/Importance: Herbicide. Carotenoid synth. and photosynthetic electron flow inhibitor

Physical Description: Cryst.

Melting Point: Mp 161-162°

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

References:

Cramp, P.C. *et al.*, *Pestic. Sci.*, 1987, **18**, 15, (*synth, activity*)

Barry, P. *et al.*, *Z. Naturforsch., C*, 1990, **45**, 492, (*activity*)

Rouchard, J. *et al.*, *J. Agric. Food Chem.*, 1991, **39**, 968, (*metab*)

Pesticide Manual, 9th edn., 1991, 283

Pèpe, G. *et al.*, *Acta Cryst. C*, 1995, **51**, 2671, (*cryst struct*)