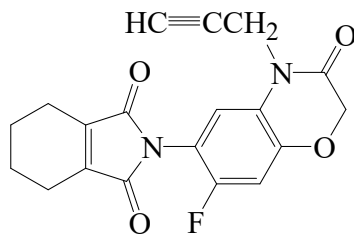




>>Entry Name: Flumioxazin, ANSI, BSI

Synonym(s): 2-[7-Fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione, 9Cl. Sumisoya. S 53482. V 53482



CAS Registry Number: 103361-09-7

Molecular Formula: C₁₉H₁₅FN₂O₄

Molecular Weight: 354.337

Accurate Mass: 354.101586

Percentage Composition: C 64.40%; H 4.27%; F 5.36%; N 7.91%; O 18.06%

Biological Use/Importance: Protoporphyrinogen oxidase inhibitor. Herbicide

Physical Description: Yellow-brown powder

Melting Point: Mp 201-204° (195-196°)

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

References:

Eur. Pat., 1986, Sumitomo, 170 191; *CA*, **105**, 56350t, (*synth, activity*)

Yoshida, R. *et al.*, *Brighton Crop Prot. Conf. - Weeds*, 1991, 69-75, (*activity*)

Tomigahara, Y. *et al.*, *J. Agric. Food Chem.*, 1999, **47**, 305-312, (*metab*)

Lyga, J.W. *et al.*, *Pestic. Sci.*, 1999, **55**, 281-287, (*activity*)

Pesticide Manual, 12th edn., 2000, No. 368