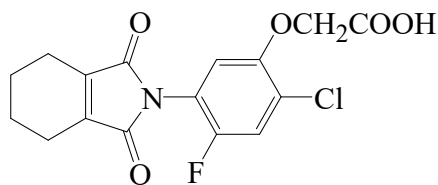




>>Entry Name: Flumiclorac, ANSI, BSI

Synonym(s): [2-Chloro-4-fluoro-5-(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)phenoxy]acetic acid, 9Cl



CAS Registry Number: 87547-04-4

Molecular Formula: C₁₆H₁₃ClFNO₅

Molecular Weight: 353.734

Accurate Mass: 353.046629

Percentage Composition: C 54.33%; H 3.70%; Cl 10.02%; F 5.37%; N 3.96%; O 22.62%

>>Derivative: Pentyl ester

Synonym(s): Flumiclorac-pentyl, ANSI, BSI. Resource. Sumiverde. S 23031. V 23031

CAS Registry Number: 87546-18-7

Molecular Formula: C₂₁H₂₃ClFNO₅

Molecular Weight: 423.868

Accurate Mass: 423.124879

Percentage Composition: C 59.51%; H 5.47%; Cl 8.36%; F 4.48%; N 3.30%; O 18.87%

Biological Use/Importance: Protoporphyrinogen oxidase inhibitor. Post-emergence herbicide used against broad-leaved weeds in soybeans and maize

Physical Description: Beige solid

Development Status: Registered in 1994 for use in USA

Melting Point: Mp 90°

References:

Eur. Pat., 1983, *Sumitomo*, 83 055; *CA*, **99**, 175591q, (*synth, activity*)

Eur. Pat., 1989, 305 826; *CA*, **111**, 194585y, (*pentyl ester*)

Matsunaga, H. *et al.*, *J. Agric. Food Chem.*, 1996, **44**, 1910-1914; 1997, **45**, 501-506, (*pentyl ester, metab*)

Birchfield, N.B. *et al.*, *Pestic. Biochem. Physiol.*, 1997, **57**, 36-43, (*activity*)

Pesticide Manual, 12th edn., 2000, No. 367