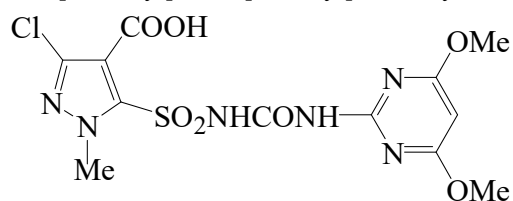




>>Entry Name: Halosulfuron, BSI

Synonym(s): 3-Chloro-5-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-1-methyl-1*H*-pyrazole-4-carboxylic acid, 9Cl



CAS Registry Number: 135397-30-7

Molecular Formula: C₁₂H₁₃ClN₆O₇S

Molecular Weight: 420.789

Accurate Mass: 420.025496

Percentage Composition: C 34.25%; H 3.11%; Cl 8.43%; N 19.97%; O 26.62%; S 7.62%

Other: Nissan

>>Derivative: Me ester

Synonym(s): Halosulfuron-methyl, BSI, Manage. Permit. Sempra. A 841101. MON 12000. NC 319

CAS Registry Number: 100784-20-1

Molecular Formula: C₁₃H₁₅ClN₆O₇S

Molecular Weight: 434.816

Accurate Mass: 434.041146

Percentage Composition: C 35.91%; H 3.48%; Cl 8.15%; N 19.33%; O 25.76%; S 7.37%

Biological Use/Importance: Acetolactate synthase inhibitor. Systemic herbicide

Physical Description: Powder

Melting Point: Mp 176-177°

pKa Value: pK_a 3.44 (22°)

Hazard & Toxicity: LD₅₀ (rat, orl) 8865 mg/kg

References:

Eur. Pat., 1985, Nissan, 281 582; *CA*, **104**, 148871w, (*Halosulfuron-methyl, synth, activity*)

Japan. Pat., 1985, 60 208 977; *CA*, **104**, 148871w, (*synth, activity*)

Suzuki, K. *et al.*, *Brighton Crop Prot. Conf. - Weeds*, 1991, 31-37, (*Halosulfuron-methyl, activity*)

Yamamoto, S. *et al.*, *ACS Symp. Ser.*, 1992, **504**, 34-42, (*Halosulfuron-methyl, rev, synth, activity, analogues*)

Derr, J.F. *et al.*, *Weed Technol.*, 1996, **10**, 95-99, (*Halosulfuron-methyl, activity*)

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