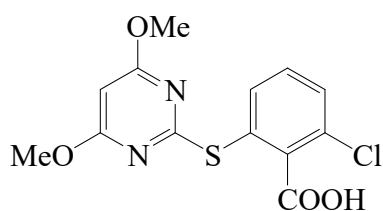




>>Entry Name: **Pyrithiobac**

Synonym(s): 2-Chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)thio]benzoic acid, 9Cl



CAS Registry Number: 123342-93-8

Molecular Formula: C₁₃H₁₁ClN₂O₄S

Molecular Weight: 326.76

Accurate Mass: 326.012805

Percentage Composition: C 47.79%; H 3.39%; Cl 10.85%; N 8.57%; O 19.59%; S 9.81%

>>Derivative: Na salt

Synonym(s): **Pyrithiobac-sodium**, ANSI, BSI, Staple, DPX-PE 350, KIH 2031

CAS Registry Number: 123343-16-8

Molecular Formula: C₁₃H₁₀ClN₂NaO₄S

Molecular Weight: 348.742

Accurate Mass: 347.994747

Percentage Composition: C 44.77%; H 2.89%; Cl 10.17%; N 8.03%; Na 6.59%; O 18.35%; S 9.19%

Biological Use/Importance: Acetolactate synthase inhibitor. Herbicide

Physical Description: Solid

Melting Point: Mp 234° (dec.)

pKa Value: pK_a 2.34

Hazard & Toxicity: LD₅₀ (rat, orl) 3200 mg/kg

References:

Eur. Pat., 1989, *Kumiai*, 315 889; *CA*, **111**, 232852t, (*synth, activity*)

Takahashi, S. *et al.*, *Brighton Crop Prot. Conf. - Weeds*, 1991, 57-62, (*activity*)

Jordan, D.L. *et al.*, *Weed Technol.*, 1993, **7**, 196-202; 216-219; 641-644, (*activity, use*)

Shimizu, T. *et al.*, *J. Pestic. Sci. (Int. Ed.)*, 1994, **19**, 59-67, (*activity*)

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