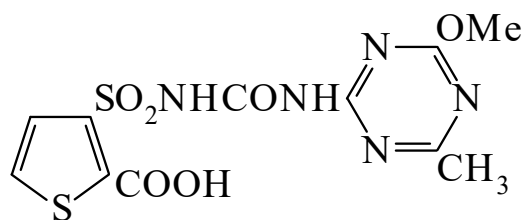




>>Entry Name: Thifensulfuron, BSI

Synonym(s): 3-[[[(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylic acid, 9CI. 3-(4-Methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl)thiophene-2-carboxylic acid. Thiameturon



CAS Registry Number: 79277-67-1

Molecular Formula: C₁₁H₁₁N₅O₆S₂

Molecular Weight: 373.37

Accurate Mass: 373.015075

Percentage Composition: C 35.39%; H 2.97%; N 18.76%; O 25.71%; S 17.18%

Use/Importance: Herbicide. Branched chain amino acid synthetase inhibitor

>>Derivative: Me ester

Synonym(s): Thifensulfuron-methyl. Pinnacle. DPX M6316

CAS Registry Number: 79277-27-3

Molecular Formula: C₁₂H₁₃N₅O₆S₂

Molecular Weight: 387.397

Accurate Mass: 387.030725

Percentage Composition: C 37.21%; H 3.38%; N 18.08%; O 24.78%; S 16.55%

Use/Importance: Herbicide

Physical Description: Solid

Melting Point: Mp 186°

pKa Value: pK_a 4 (25°, imido)

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

References:

- U.S. Pat., 1984, 4 481 029; CA, **102**, 185108g, (synth, activity)
Kudsk, P. et al., Weed Res., 1990, **30**, 261, (activity)
Pesticide Manual, 9th edn., 1991, No. 11545
Subramanian, M.V. et al., Plant Physiol., 1991, **96**, 310, (activity)